VOLUME 8

PENNSYLVANIA-AMERICAN WATER COMPANY

2022 GENERAL BASE RATE CASE R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

> DIRECT TESTIMONY STATEMENTS NO. 1-9

Statement No. 1 Everette

PAWC STATEMENT NO.1

TESTIMONY OF ASHLEY E. EVERETTE

WITH REGARD TO

(1) AN OVERVIEW OF PENNSYLVANIA-AMERICAN WATER COMPANY'S RATE FILING AND PRINCIPAL ACCOUNTING EXHIBIT. INCLUDING A SUMMARY OF THE FACTORS DRIVING ITS NEED FOR **RATE RELIEF; (2) AFFORDABILITY OF WATER AND WASTEWATER** SERVICE; (3) SUPPORT FOR SPECIFIC CLAIMS, INCLUDING ALLOCATION OF A PORTION OF WASTEWATER REVENUE **REOUIREMENT TO WATER OPERATIONS. THE COMPANY'S** PROPOSED REVENUE STABILIZATION MECHANISM. AND **COMPLIANCE WITH SECTION 1301.1(B) OF THE PENNSYLVANIA** PUBLIC UTILITY CODE; (4) COMMITMENTS FROM PRIOR RATE CASE SETTLEMENT AND COMPARISON OF CLAIMED RATE BASE AND EXPENSES FROM THE LAST RATE CASE; (5) PERFORMANCE FACTORS UNDER SECTION 523 OF THE CODE AND THE POLICY STATEMENT AT 69 PA. CODE § 69.711; AND (6) STORMWATER CHARGES

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: APRIL 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY DIRECT TESTIMONY OF ASHLEY E. EVERETTE

INTRODUCTION

1 Q. Please state your name and business address.

A. My name is Ashley E. Everette, and my business address is 852 Wesley Drive,
Mechanicsburg, Pennsylvania 17055.

4 Q. By whom are you employed and in what capacity?

A. I am employed by American Water Works Service Company, Inc. ("Service Company" or
"AWWSC") as the Senior Director of Rates and Regulatory. The Service Company is a
wholly owned subsidiary of American Water Works Company, Inc. that provides services to
Pennsylvania-American Water Company ("PAWC" or "Company") and its affiliates. I work
in the Mechanicsburg office of PAWC.

10 Q. Please describe your educational background and business experience.

A. I hold a Bachelor's degree in Economics and a Master's degree in Business Administration,
both from the University of Illinois. I have been employed by the Service Company since
September 2019, first as the Director of Rates and Regulatory for Pennsylvania, and now in
my current role as Senior Director of Rates and Regulatory with regulatory responsibility for
Pennsylvania and West Virginia. In these positions, I am responsible for preparing and
presenting rate applications as well as certain aspects of the financial, budgeting and
regulatory functions of the Company.

Prior to my employment at the Service Company, I was employed by the Pennsylvania Office of Consumer Advocate ("OCA") as a Regulatory Analyst from September 2012 to September 2019.

Q. Have you previously testified before regulatory agencies?

A. Yes. I have testified on behalf of PAWC before the Pennsylvania Public Utility Commission
("Commission") in several cases. Additionally, I submitted testimony to the West Virginia
Public Service Commission on behalf of West Virginia American Water in 2021. Prior to my
employment by the Service Company, I testified on behalf of the OCA in approximately
35 proceedings.

7 Q. What is the purpose of your testimony?

8 A. The purpose of my testimony is to explain the overall structure of PAWC's case and to address
 9 certain specific claims being made by the Company to support its proposed rates. My
 10 testimony is divided into several parts.

First, I will provide general information about the Company and this rate filing. Next, 11 12 I discuss the major drivers of the Company's request for rate relief in this proceeding, which 13 is primarily the significant capital investments that the Company has made and plans to make 14 through December 31, 2023. Second, as part of this discussion, I address the affordability of 15 water and wastewater service under present and proposed rates; explain the sources of the 16 accounting data that were the starting point for the Company's rate case presentation; identify the test years the Company is employing in this case; and give an overview of PAWC's 17 18 Exhibit No. 3-A.

Third, I will discuss and, together with other PAWC witnesses, support the following
specific parts of the Company's case:

21 22 (1) The Company's use of authority conferred by Act 11 of 2012 ("Act 11") and Section
 1311(c) of the Pennsylvania Public Utility Code ("Code") to mitigate the impact of

1		1	revenue increases on wastewater customers by recovering a portion of the Company's
2		,	wastewater revenue requirement from its total water and wastewater customer base;
3		(2)	The Company's proposal to implement a Revenue Stabilization Mechanism; and
4		(3)	The Company's compliance with Section 1301.1(b) of the Code by calculating the
5			"differential" in tax costs recognized for ratemaking purposes before and after the
6			enactment of Act 40 of 2016 and identifying how 50% of that differential will be
7		i	invested in water and wastewater infrastructure.
8]	Fourth, I will discuss, or identify other witnesses who discuss, the Company's
9		complia	ance with commitments it made in the Joint Petition for Non-Unanimous Settlement of
10		Rate Inv	vestigation in the Company's last base rate case.
11]	Fifth, I will discuss the Company's overall management performance in relation to the
12		factors	identified in Section 523 of the Code and the Commission's Policy Statement at 52 Pa.
13		Code §	69.711 and explain why the Company's superior management performance supports
14		a rate of	f return on equity at the upper end of the range determined by PAWC's rate of return
15		witness	, Ms. Ann E. Bulkley, in PAWC Statement No. 13.
16]	Finally, I discuss the Company's commitment in the last base rate case regarding
17		stormw	ater fees for its combined sewer systems ("CSSs"), including the results of the
18		Stormw	vater Fee Feasibility Study ("Feasibility Study") prepared by Gannett Fleming, Inc.
19	Q.	Please	identify the other witnesses who are providing direct testimony on behalf of
20		PAWC	in this proceeding.
21	A.	In addit	tion to me, the following witnesses will be responsible for presenting PAWC's direct
22		case:	

- PAWC Statement No. 2 Jim Runzer is the Vice President of Operations for PAWC.
 Mr. Runzer discusses the general operations of the Company; PAWC's commitment to
 supplying high quality water; initiatives taken to increase efficiency, enhance service and
 control costs; employee safety and employee training and development; support for
 employee levels; and efforts to control non-revenue water.
- 6 PAWC Statement No. 3 - Bruce W. Aiton is the Vice President of Engineering for ٠ 7 PAWC. Mr. Aiton's testimony discusses the Company's claim for plant additions to be 8 placed in service during the future test year ("FTY") ending December 31, 2022 and fully 9 projected future test year ("FPFTY") ending December 31, 2023, PAWC's major acquisitions since the last case, operational and regulatory risks associated with the 10 11 provision of public water and wastewater service, PAWC's proposed modifications to its 12 lead service line replacement plan, the Company's efforts to evaluate the feasibility of 13 adopting a separate stormwater fee for its CSS customers, and issues related to the 14 Company's emergency interconnection agreement with the Middlesex Township 15 Municipal Authority.
- PAWC Statement No. 4 Stacey D. Gress is Director of Rates and Regulatory for
 PAWC. Her testimony discusses the Company's claims for rate base, depreciation and
 amortization, taxes other than income and acquisitions since its last rate case that the
 Company has reflected in its proposed rate base in this case, certain specific expense items
 not covered by other witnesses, proposed tariff changes, the allocation of expenses
 between water and wastewater operations, and PAWC's rate structure and rate design
 proposals.

1 PAWC Statement No. 5 - Lori O'Malley is a Senior Manager Regulatory Services for • 2 AWWSC. Her testimony addresses the Company's claim for labor and labor-related 3 expenses, Service Company expenses, miscellaneous expenses and inflation. 4 PAWC Statement No. 6 - Thomas Markward is a Principal Regulatory Analyst of • 5 Regulatory Services for AWWSC. His testimony supports the Company's adjustments 6 for purchased power, waste disposal, purchased water, chemicals, transportation, 7 insurance other than group, and rent. 8 PAWC Statement No. 7 - Bernard J. Grundusky, Jr. is Senior Director of Business • 9 Development for PAWC. His testimony describes various acquisitions that have closed 10 or are pending, since the Company's last base rate case. He will also discuss the 11 Company's proposed wastewater capacity reservation fee discount. 12 PAWC Statement No. 8 - Melissa Ciullo is Vice President of Tax. Her testimony ٠ 13 supports the Company's claim for Federal and state income taxes. PAWC Statement No. 9 - J. Cas Swiz is Senior Director of Regulatory Services of 14 ٠ 15 AWWSC. His testimony discusses PAWC's claim for uncollectible accounts expense and 16 proposed tracking mechanism. He also supports the Company's request to recover the 17 deferred amounts recorded to the regulatory asset for incremental COVID-19 related 18 financial impacts authorized by the Commission's September 15, 2021 Order at Docket 19 No. P-2020-3022426. 20 PAWC Statement No. 10 - Charles B. Rea is Senior Director of Regulatory Services of • 21 AWWSC. His testimony explains the design of current and proposed tariff rates, presents 22 the Company's affordability analyses for water and wastewater service, describes the 23 Company's analysis of residential, commercial, and municipal water consumption,

- discusses the Company's claimed revenues, and supports the Company's proposed
 Revenue Stabilization Mechanism.
- PAWC Statement No. 11 John J. Spanos is President of Gannett Fleming Valuation
 and Rate Consultants LLC. Mr. Spanos' testimony explains the development of the
 depreciated original cost of the Company's utility plant in service and its claims for annual
 depreciation expense.
- PAWC Statement No. 12 Constance E. Heppenstall is Senior Project Manager for rate
 studies of Gannet Fleming Valuation and Rate Consultants LLC. Ms. Heppenstall's
 testimony explains the allocation of the cost of service to customer classifications and the
 identification of stormwater-related costs of service of CSSs.
- PAWC Statement No. 13 Ann E. Bulkley is a Principal with The Brattle Group.
 Ms. Bulkley's testimony provides a recommendation regarding PAWC's authorized
 return on equity and assesses the reasonableness of its proposed capital structure for
 ratemaking purposes.
- PAWC Statement No. 14 Nathan D. Walker is a Senior Water Resources Planner with
 Gannett Fleming, Inc. Mr. Walker's testimony explains the Feasibility Study that
 examines the principal challenges to developing and implementing a separate charge to
 recover the cost of managing stormwater that enters the CSSs that PAWC owns and
 operates in its Kane, McKeesport, and Scranton service areas.
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OVERVIEW: GENERAL INFORMATION ABOUT THE COMPANY AND THIS CASE

22 Reasons For Rate Relief Requested

23 Q. Please summarize the rate increase sought by PAWC in this proceeding.

A. The Company is seeking an increase in the rates of its water and wastewater operations that
will produce additional annual operating revenues of \$173.2 million, or 20.8%, over PAWC's
annualized total revenues at present rates including Distribution System Improvement Charge
revenue. The key elements of the Company's rate request are summarized on Schedule AEE-1
to this statement. Schedule AEE-2 to this statement is a more detailed summary that provides
an overview of revenue requirements and revenues at existing and proposed rates on a totalCompany basis.

8 Q. What are the major drivers of the Company's request for rate relief?

9 Α. The most significant driver of this rate case is PAWC's ongoing infrastructure investment. 10 As explained in Mr. Aiton's direct testimony (PAWC Statement No. 3), maintaining PAWC's 11 facilities requires substantial capital investment. PAWC has made, and must continue to 12 make, substantial investments in new and replacement plant and equipment to replace aging infrastructure, comply with mandates imposed by the Safe Drinking Water Act, the Clean 13 14 Water Act and the Clean Streams Law and their associated regulations, and meet customers' 15 demands for water and wastewater service. From the end of the FPFTY in the Company's 16 last base rate case (December 31, 2021) through the end of the FPFTY in this case 17 (December 31, 2023), the Company will have invested over \$1.1 billion in new or replacement 18 plant and equipment, and the overwhelming majority of this investment is and will be in 19 source of supply, treatment, distribution and collection assets. Part of this investment is also 20 being used to improve service to small, troubled water and wastewater systems that PAWC 21 has acquired. While the acquisition of smaller systems will result in increased economies of 22 scale over time, the Company is currently incurring increased capital investment and a 23 moderate increase in operating costs.

1 To address these diverse capital needs, PAWC must raise substantial amounts of debt 2 and equity capital and, in the process, must demonstrate its ability to provide a reasonable return for investors to commit their funds to the Company for its use. On an annual basis, 3 4 PAWC's capital investment program is greater than its allowance for depreciation, which 5 results in negative free cash flow. Therefore, the Company needs to seek financing for its 6 capital investments beyond any internally generated cash flow. As shown in Schedule AEE-2 7 and explained in the Statement of Specific Reasons for Proposed Increase in Rates that 8 accompanies the Company's filing, absent rate relief, the Company's overall rate of return on 9 an original cost basis will be only 5.52% as of December 31, 2023. More significantly, the 10 indicated return on common equity is anticipated to be 6.54% as of December 31, 2023, which 11 is clearly far less than is required.

Q. You indicated that operating expenses are moderately increasing. Are increased operating costs a major driver of this case?

14 No. Although the Company's FPFTY costs reflect a moderate increase in operating costs, the A. 15 Company's claims for its water operations' operating and maintenance ("O&M") expenses, 16 excluding depreciation, will increase by a compound annual growth rate of 2.2% in the two 17 years since the Company's last base rate proceeding. The Company's ability to mitigate O&M 18 increases is attributable to the Company's prudent management of operating costs. Our management initiatives, as explained by Mr. Runzer (PAWC Statement No. 2), and our 19 20 prudent capital investments described by Mr. Aiton have enabled us to work more efficiently and effectively in managing O&M expenses. 21

22 Affordability of Water and Wastewater Service

23 Q. In general, why is PAWC's proposed rate increase reasonable and appropriate?

1 A. PAWC's proposed rate increase is reasonable and appropriate because, as I previously 2 discussed, it is driven primarily by investments that keep our water and wastewater service safe and reliable. Such investments cannot be avoided and are in the long-term best interests 3 4 of our customers. If such investment is not made, our customers will be adversely impacted 5 in the long run as costs will increase even more. For example, when mains are not replaced 6 in a timely fashion, or equipment is neglected, our costs rise, as unanticipated main breaks 7 create water quality issues, unexpected expenses, and disruption to our customers and communities. Similarly, equipment in need of replacement makes workers less efficient and 8 9 can create safety issues.

10 Q. Has PAWC evaluated the impact of the proposed rate increases on its customers?

A. Yes, we have. We know our water and wastewater service is critical, and we know how
important it is for that service to remain affordable. A Zone 1 residential customer using 106
gallons of water per day would pay approximately \$906 per year for water under our rate
proposal. Put another way, under the Company's proposed rates in the Central Tariff Zone,
an annual residential bill of \$906 equates to less than \$2.50 per day. Therefore, for about
\$2.50 per day an average residential customer has all the water they and their family need to
drink, cook, wash, and maintain their general health and well-being.

18 Q. Has the Company performed an analysis of the affordability of its water and wastewater 19 service under the proposed rates?

A. Yes. Mr. Rea (PAWC Statement No. 10) has conducted a detailed analysis of the affordability
 of our historical and proposed rates and relates the median household income ("MHI") for
 customers in our service territory to our utility bills over time. Mr. Rea's analysis
 demonstrates that our water and wastewater service, overall, has been affordable over time

and will remain well within the range of a percentage of MHI normally viewed as affordable. 1 2 His testimony compares historical average monthly water bills to monthly household income for PAWC customers from 2010 through 2021, both in absolute terms and in terms of bill to 3 4 income ("BTI") ratios. Mr. Rea then analyzed the Company's proposed bills in this case and 5 estimated MHI for PAWC customers during the FPFTY. His analysis shows that BTI Ratios 6 for PAWC's residential customer base have improved over time from 1.01% in 2010 to 0.89% 7 in 2021 (estimated) and are expected to be 1.08% under the Company's proposed rates in this case during the FPFTY. Mr. Rea shows in Exhibit CBR-4 that BTI Ratios for wastewater 8 9 service have ranged between 0.8% and 1.2% from 2010 through 2021 (estimated) and is 10 expected to be 1.35% under the Company's proposed wastewater rates in this case. This is a 11 tangible demonstration that our customer bills have become more affordable and will remain 12 affordable even with PAWC's requested rate increase.

13 Q. How does PAWC maintain the affordability of its water service?

A. As I noted previously, an important way that we maintain affordability is by continuously
seeking to improve our business processes and make investments that improve operational
efficiencies, and we have been very successful in doing so. As Mr. Aiton and Mr. Runzer
explain, we use targeted investments to permit us to work smarter and more efficiently as well
as leveraging the power of our organization to purchase equipment and supplies at
advantageous terms. All of these help us better manage our cost structure and mitigate cost
increases.

Q. Notwithstanding the overall affordability of PAWC's rates, are there customers who might face affordability issues?

1 A. Yes, some of our customers face challenging economic circumstances. Thus, Mr. Rea also 2 examined the affordability of our rates for customers at different MHI levels. His assessment compares annualized bills for "basic water and/or wastewater service" (i.e., service that is 3 4 necessary and reasonable to meet basic household needs for drinking, cooking, sanitation, and 5 general health service that does not include seasonal discretionary water use) to measures of 6 household income for lower income groups. The Company estimates that there are 7 approximately 100,000 residential customers in its service areas with household incomes at or below 150% of Federal Poverty Level ("FPL"), or approximately 15% of the Company's 8 9 residential water customer base. For these customers, the average BTI Ratio is approximately 10 3.6% for basic water service, which we define as 40 gallons of water per household resident 11 per day. For these customers, the Company continues to offer various assistance programs, 12 which I describe below. The Company is also proposing in this case an expanded low-income tariff discount program to further address the affordability of water or wastewater service for 13 14 low-income customers, as explained in more detail by Mr. Rea.

Q. What customer assistance programs does PAWC offer its low-income customers to maintain the affordability of its service?

A. PAWC offers several customer assistance programs to help our low-income customers. The
Company supports low-income customers through PAWC's H2O Help to Others Program[™]
("H2O"). The H2O program offers a three-fold approach, including bill discounts for water
and wastewater service, hardship grants, and water conservation assistance. The bill discount
program currently includes a water discount of 85% of the service charge and 10% of usage
charges and a wastewater discount of 30% on the total bill. I discuss proposed changes to the
low-income discount below.

1The hardship grant assistance program is a bill-paying assistance program funded by2PAWC shareholders and donations from customers and others who want to help our customers3in need. Customers who qualify may receive grants of up to \$500 annually toward their water4bill and \$500 annually toward their wastewater bill. The hardship grant assistance program is5administered by Dollar Energy Fund, an independent, non-profit organization.

6 The water conservation assistance program offers tools and tips to help customers save
7 water and money. The program includes a leak detection kit to help identify household leaks,
8 conservation tips and water use calculator.

9 In addition, the Company offers its customers who qualify flexible payment 10 arrangements through installment agreements if they are financially unable to pay a water 11 and/or wastewater service bill when due. The Company also offers residential customers the 12 option of paying bills under its budget billing plan. For customers electing budget-billing, the 13 Company estimates the customer's total billed amount for service during a succeeding twelve-14 month period and, for that period, issues monthly bills based on one-twelfth of the twelve-15 month estimate.

16 Q. Has the Company been able to use American Rescue Plan Act funding to assist 17 customers?

A. Yes. The Low-Income Household Water Assistance Program ("LIHWAP"), which was
 authorized by the federal government pursuant to the American Rescue Plan Act of 2021 and
 the Consolidated Appropriations Act, 2021, has been providing, and continues to provide, bill
 assistance for our qualifying customers. At the state level, this program is administered by
 the Pennsylvania Department of Human Services ("DHS"). PAWC has a vendor agreement

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with the DHS. Customers can apply online at www.compass.state.pa.us, call DHS and request an application or apply in person at a local county assistance office.

3 Q. Has the Company been able to use other state and federal funding to assist customers?

A. Yes. The Emergency Rental Assistance Program ("ERAP"), which was authorized by the
federal government pursuant to the Consolidated Appropriations Act of 2021, provided
funding to states to establish an emergency rental assistance program. The program offers
rental and utility assistance to help Pennsylvanians avoid eviction or loss of utility service.
The ERAP is administered by each county.

Allegheny County through the Allegheny County COVID-19 Utility Assistance
Program provides utility bill payment assistance to residential customers (homeowners and
renters) facing higher, or outstanding, water and wastewater bills due to the COVID-19.
PAWC partnered with Dollar Energy to expedite customer applications as funding was and
continues to be distributed on a first come, first serve basis.

14 Q. You mentioned PAWC is proposing an expanded low-income discount to assist its low15 income customers. What is PAWC's proposal?

A. The Company is proposing an expanded low-income discount tariff to help customers with
household incomes at or below 150% of the FPL. As explained by Mr. Rea, the Company's
proposed low-income discount program will make water and wastewater service more
affordable for this group of customers by offering a tiered discount for qualifying customers,
with the discount based on the customers' percentage of federal poverty level. The proposed
discount offered under this tariff would reduce the typical basic water service ("BWS") bill
as shown in the chart below:

		Pre-		
	BWS Bill	Discount	BWS Bill	Post-Discount
Income Group	Pre-Discount	BTI Ratio	Post-Discount	BTI Ratio
0% - 50% FPL	\$66.40	18.82%	\$13.28	3.76%
51% - 100% FPL	\$76.28	6.37%	\$35.14	2.87%
101% - 150% FPL	\$64.96	3.58%	\$45.72	2.50%

Q. Please summarize the Company's Arrearage Management Plan ("AMP") that is pending Commission review and approval.

A. In accordance with a stipulation between the Company and the Commission on Economic
Opportunity in the Company's 2020 base rate case, on August 25, 2021, PAWC filed with the
Commission a Petition of Pennsylvania-American Water Company for Approval of an
Arrearage Management Plan at Docket No. P-2021-3028195. Under this program, qualifying
customers will receive \$25 of arrearage forgiveness per month. The parties reached a
settlement in principle of all issues in the proceeding. The settlement is anticipated to be filed
with the Commission in May 2022.

11 Q. When will the Company implement its AMP?

A. The settlement in principle of the AMP proceeding provides that the Company will implement the plan no later than twelve months after the Commission issues a Final Order in the AMP proceeding. The Company anticipates implementing the AMP as close to the effective date of new rates as possible, pending Commission approval of the settlement prior to the effective date of new rates. As noted in Ms. O'Malley's direct testimony (PAWC Statement No. 5), the Company has included the cost of the arrearage management plan in its expense claims in this case, which is consistent with the settlement in principle.

1 Q. Is the Company's AMP a pilot program?

A. Yes, from a cost recovery standpoint, the AMP is being implemented as a pilot program. The
 settlement in principle also provides that during the period that the AMP is considered a pilot
 program, the Company will record a regulatory asset or liability for amounts over or under the
 amount included in rates for recovery or refund in the next base rate case.

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Source Of Accounting Data And The Test Years Employed By The Company

7 Q. What is PAWC's principal accounting exhibit in this case?

8 A. PAWC Exhibit No. 3-A is PAWC's principal accounting exhibit in this case. PAWC Exhibit

9 No. 3-A includes six separate revenue requirement studies, one of which relates to the
10 Company's water operations and five which relate to its wastewater operations.

11 Q. What is the source of the accounting data used in PAWC Exhibit No. 3-A?

12 A. The starting point for each of the revenue requirement studies in PAWC Exhibit No. 3-A is the accounting information recorded in the Company's books and records for the twelve 13 14 months ended December 31, 2021. The Company's books and records are maintained in 15 conformity with the National Association of Regulatory Utility Commissioners ("NARUC") 16 Uniform System of Accounts for Water Companies, the NARUC Uniform System of 17 Accounts for Wastewater Companies and generally accepted accounting principles. Because 18 the purpose of ratemaking is to establish rates to be applied in the future, per-book data were 19 adjusted on a pro forma basis, as appropriate, to reflect changes in operating conditions that 20 are not fully reflected in the book data for the historic test year ("HTY"), the FTY or the 21 FPFTY.

Q. Why is the Company presenting six separate revenue requirement studies in PAWC Exhibit No. 3-A?

A. The Company is presenting six separate revenue requirement studies in its Exhibit No. 3-A to comply with the terms set forth in the Joint Petition for Non-Unanimous Settlement of Rate Investigation ("Joint Petition for Non-Unanimous Settlement") of its last base rate case that was approved by the Commission, at Docket No. R-2020-3019369, and the terms and conditions of the Commission's approvals of PAWC's acquisitions of certain water and wastewater systems that are included in this case.

9 Paragraph 28 of the Joint Petition for Non-Unanimous Settlement provides that "in 10 future rate filings, PAWC will submit one or more separate stormwater and wastewater costof-service studies for each of its combined sewer systems ('CSSs') currently consisting of 11 McKeesport, Scranton and Kane and including any other CSS acquired by the time of each of 12 the future rate filings" ¹ and further provides that "the Company is not required to provide a 13 14 separate study for each combined sewer system." Accordingly, PAWC Exhibit No. 3-A 15 includes a separate revenue requirement study, in aggregate, for the CSSs it currently owns, 16 which consist of the Scranton, McKeesport, and Kane systems.

17 Consistent with the Commission's approvals under Section 1329 of the Code for the 18 Company to acquire the Sanitary Sewer Systems ("SSS") in Royersford Borough, 19 Upper Pottsgrove Township, and the City of York, the Company is also submitting separate 20 cost of service studies for those systems in this next base rate case.

¹ The cost-of-service studies that separately identify and quantify storm water costs are sponsored by Ms. Constance E. Heppenstall and are explained in her direct testimony (PAWC Statement No. 12).

1Q.In the Company's last base rate case, it submitted separate revenue requirement studies2for Steelton Water Operations, Exeter Wastewater SSS Operations and Sadsbury3Wastewater SSS Operations. Please identify where the information with respect to these4systems is included in the Company's filing in this case.

- 5 A. The cost of service of the Steelton Water system is included in the Company's consolidated 6 Water Operations revenue requirement. The cost of service of the Exeter and Sadsbury 7 wastewater systems is included in the Wastewater SSS General Operations revenue 8 requirement.
- 9 Q. Briefly explain what is set forth in Exhibit No. 3-A.

A. As previously explained, PAWC Exhibit No. 3-A contains six separate revenue requirement
 studies, each of which is set forth at a separate tab within the exhibit, consisting of the
 following:

Tab 1	Water Operations
Tab 2	Wastewater Sanitary Sewer Systems General Operations
Tab 3	Royersford Wastewater ("WW") Operations
Tab 4	Upper Pottsgrove WW Operations
Tab 5	York WW Operations
Tab 6	Wastewater Combined Sewer Systems Operations

13	A summary page at the beginning of PAWC Exhibit No. 3-A shows the Company's
14	rate request on a consolidated (total Company) basis. Applicable workpapers and supporting
15	documentation for PAWC Exhibit No. 3-A are set forth in PAWC Exhibit Nos. 3-B and 3-C.
16	I am responsible for portions of each of these exhibits. Other witnesses are responsible for
17	other portions of these exhibits as explained in their respective statements. Each page of
18	PAWC Exhibit No. 3-A identifies the witness responsible for that portion of the exhibit.

1		In order to reflect data for the FPFTY, PAWC Exhibit No. 3-A presents PAWC's rate
2		base, revenues, expenses and tax information on the basis of an HTY ended December 31,
3		2021, a FTY ending December 31, 2022, and a FPFTY ending December 31, 2023. The
4		support for the Company's requested revenue increase is based principally upon the data
5		presented for the FPFTY. Within PAWC Exhibit No. 3-A, HTY data are generally identified
6		by the title or heading "Present Rates at December 31, 2021" and FTY data are generally
7		identified by the title or heading "Present Rates at December 31, 2022." Data for the FPFTY
8		are generally identified by the title or heading "Present Rates at December 31, 2023."
9		SUPPORT FOR SPECIFIC ELEMENTS OF THE COMPANY'S FILING
10		Development Of Water And Wastewater Revenue Requirements
11		and The Application Of Section 1311(c) Of The Code
12	Q.	Has the Company relied upon provisions of Act 11 in developing its proposed rates this
13		case?
13 14	A.	case? Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in
	A.	
14	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in
14 15	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations,
14 15 16	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations, which is approximately 9% of total proposed water revenue. Thus, the authority granted by
14 15 16 17	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations, which is approximately 9% of total proposed water revenue. Thus, the authority granted by Act 11 would be used to mitigate the increases that wastewater customers in certain service
14 15 16 17 18	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations, which is approximately 9% of total proposed water revenue. Thus, the authority granted by Act 11 would be used to mitigate the increases that wastewater customers in certain service areas would experience if their rates were established on a stand-alone basis. The Company's
14 15 16 17 18 19	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations, which is approximately 9% of total proposed water revenue. Thus, the authority granted by Act 11 would be used to mitigate the increases that wastewater customers in certain service areas would experience if their rates were established on a stand-alone basis. The Company's proposed rates would also make meaningful progress in moving the rates of its separate
14 15 16 17 18 19 20	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations, which is approximately 9% of total proposed water revenue. Thus, the authority granted by Act 11 would be used to mitigate the increases that wastewater customers in certain service areas would experience if their rates were established on a stand-alone basis. The Company's proposed rates would also make meaningful progress in moving the rates of its separate wastewater rate zones closer to a single consolidated wastewater rate design for all of the
14 15 16 17 18 19 20 21	A.	Yes, it has. As authorized by Section 1311(c) of the Code, PAWC is proposing to allocate in the FPFTY approximately \$73 million of its wastewater cost of service to its water operations, which is approximately 9% of total proposed water revenue. Thus, the authority granted by Act 11 would be used to mitigate the increases that wastewater customers in certain service areas would experience if their rates were established on a stand-alone basis. The Company's proposed rates would also make meaningful progress in moving the rates of its separate wastewater rate zones closer to a single consolidated wastewater rate design for all of the Company's wastewater operations.

Revenue Requirement Allocated from Wastewater to Water Customer Base		
Wastewater Operations	FPFTY 2023	
Wastewater Sanitary Sewer Systems General Operations	12,786,945	
Royersford Wastewater WW Operations	1,504,562	
Upper Pottsgrove WW Operations	859,192	
York WW Operations	18,985,985	
Wastewater Combined Sewer Systems Operations	38,809,970	
Total	\$72,946,653	

Q. What is the impact on the Company's proposed revenue requirement for water
 customers of allocating a portion of wastewater revenue requirement to water
 operations, as shown above?

A. Based on the Company's cost of service and proposed customer class revenue allocation in this case, the allocation would increase the monthly water bill of a residential water customer by approximately \$6.42 per month at proposed rates.

9 Q. What does Section 1311(c) of the Code state concerning the allocation of wastewater 10 revenue requirement to water customers?

A. Section 1311(c) of the Code states: "The commission, when setting base rates, after notice and an opportunity to be heard, may allocate a portion of the wastewater revenue requirement to the combined water and wastewater customer base if in the public interest."

14 Q. What is your understanding of the phrase "in the public interest" in Section 1311(c) of 15 the Code?

A. The phrase is not specifically defined in Section 1311(c). However, I am advised by counsel
that the Commission provided guidance on the meaning of "in the public interest" in the

1 Company's last base rate proceeding with respect to acquisitions that were approved under 2 Section 1329 of the Public Utility Code.² The Commission held that it is in the public interest 3 for a utility to recover a portion of the wastewater revenue requirement associated with an 4 acquired wastewater system from the combined water and wastewater customer base, 5 "because otherwise, large viable public utilities would be discouraged from acquiring 6 municipal and wastewater systems and contravene legislative intent and the Commission's 7 policy of encouraging consolidation and regionalization."³

8 Q. Is the public interest served by distributing a portion of the revenue requirement of the 9 Company's wastewater operations across PAWC's approximately 678,000 water 10 customers?

11 Yes, it is. As indicated by the Commission in the Company's last rate case, it is in the public A. 12 interest for the Company to recover a portion of its wastewater revenue requirement associated 13 with its acquired wastewater systems from its combined water and wastewater customer base.⁴ 14 Distributing a portion of the revenue requirement of the Company's wastewater operations 15 across all of the Company's approximately 678,000 water customers is consistent with 16 legislative intent and the important policy considerations underlying Sections 1311(c) and 17 Section 1329, including ameliorating rate impacts on wastewater customers while imposing 18 only a modest increase on the water bills of the much larger base of water customers, and 19 promoting the Commission's policy of encouraging consolidation and regionalization.

20 21 The amendment Act 11 made to Section 1311(c) has extended to combined water and wastewater utilities a policy similar to the concept of single tariff pricing, which this

- ³ *Id*.
- ⁴ Id.

² Pa. Pub. Util. Comm'n v. Pennsylvania-American Water Co., Docket Nos. R-2020-3019369 and R-2010-3019371 (Opinion and Order entered Feb. 25, 2021), p. 82.

1 Commission has approved and encouraged water utilities to adopt for nearly forty years. Like 2 single tariff pricing, allocating a portion of wastewater revenue requirement to the entire customer base recognizes that: (1) PAWC is an integrated water and wastewater company; 3 4 (2) a multitude of functions needed to provide water and wastewater service are performed on 5 a consolidated basis by PAWC employees and by the Service Company; (3) providing both 6 water and wastewater service creates opportunities, over time, to capture additional economies 7 of scale and scope; (4) the need for capital additions in different parts of the Company's water 8 and wastewater systems will be higher in some areas and lower in others at any given point in 9 time, but will average out over time; (5) "averaging" water and wastewater costs is very much 10 like the cost averaging that single tariff pricing is explicitly designed to accomplish and 11 stabilizes rates and mitigates rate impacts for all customers over the long run. Consistent with 12 these factors, PAWC's proposal represents a reasonable approach to allocating revenue requirement that supports economies of scale over the long term. 13

14 15

<u>Proposed Revenue Stabilization Mechanism</u>

16 Q. Is the Company proposing a Revenue Stabilization Mechanism in this proceeding?

A. Yes. As outlined in the testimony of PAWC witness Charles Rea, the Company requests
approval of a Revenue Stabilization Mechanism ("RSM") as part of this proceeding. The
RSM is a decoupling mechanism which will simply align the revenue upon which the
Company's rates are established with the revenue that is actually billed to customers.

Q. Does Pennsylvania law allow the Commission to approve a Revenue Stabilization Mechanism as PAWC requests?

A. Yes, 66 Pa. Code C.S. § 1330(b) was added to the Public Utility Code in a 2018 amendment.
I am advised by counsel that Section 1330 allows the Commission to approve an application

1		by PAWC to establish various forms of alternative ratemaking. One such form of alternative
2		ratemaking, as identified in Section 1330(b)(i), is a decoupling mechanism.
3	Q.	Does Section 1330 state the policy goals of this alternative ratemaking treatment?
4	A.	Yes. Section 1330(a)(2) states as follows:
5 6 7 8		It is the policy of the Commonwealth that utility ratemaking should encourage and sustain investment through appropriate cost-recovery mechanisms to enhance the safety, security, reliability or availability of utility infrastructure and be consistent with the efficient consumption of utility service.
9		The Commission policy objectives state that the utility's alternative ratemaking proposals:
10		"should encourage and sustain investment" through mechanisms that (1) "enhance safety,
11		security, reliability or availability of utility infrastructure", and (2) are "consistent with the
12		efficient consumption of utility service."
13	Q.	How does the Company's proposed RSM meet these policy objectives?
14	A.	The authorized water and wastewater revenue requirements approved by the Commission
15		represent the amount of revenue the Commission determines that the Company needs to
16		operate, maintain, and invest in its water and wastewater system in a prudent and efficient
17		manner. The Company's investment priorities continue to focus on non-revenue producing
18		investments (e.g., water efficiency investments, aging infrastructure replacement and
19		compliance with environmental regulations) (PAWC Statement No. 3). A rate design that
20		relies heavily on sales volumes means that the Company's revenues are driven by factors
21		which are largely outside of its control. The need to recover a rate of return on these significant
22		investments, however, does not vary with usage. The ability to reliably recover the Company's
23		approved revenue requirement under an RSM improves the Company's ability to plan,
24		manage, maintain, and invest in the facilities necessary to continue providing safe, reliable,

2

and high-quality water and wastewater service at a reasonable cost to customers (PAWC Statement No. 3).

Further, the volumetric components of the Company's current rate structure can create a "throughput incentive": the more water customers use, the more revenue the Company collects and, to the extent this revenue exceeds variable costs, the better its financial performance. Rather than implicitly encouraging water use and penalizing a water utility for encouraging conservation, an RSM removes a disincentive for utilities to promote end use efficiency. Removing the disincentive to improving end-use efficiency is consistent with the policy objective of "the efficient consumption of utility service."

10Just as prudent energy efficiency investments can be the least-cost investments in11energy resources, improving water efficiency reduces operating costs (e.g., energy, treatment12and residuals handling/storage costs) and reduces the need to develop new supplies and13expand our water infrastructure. Ultimately, it is customers who will benefit from an RSM14because it provides a consistent regulatory framework to support long-term capital investment,15properly matches cost incurrence with cost recovery, and facilitates more consistent and16efficient planning and deployment of resources.

17

Q. Are there other benefits an RSM provides?

A. Yes, there are. One of the contested aspects of a rate case is often the forecast level of utility sales during the year the new rates will be in effect. As a ratemaking tool, an RSM will effectively reduce or even eliminate the contentiousness related to the process of determining the water volumes used to set water rates. With the implementation of a RSM that allows for adjustments between rate cases, the Company will not need to file to recover revenue shortfalls

1		in an environment of falling sales. On the other hand, when the company does experience
2		sales growth, it will credit the revenue in excess of the authorized amount.
3	Q.	Have you reviewed Ms. Ciullo's direct testimony regarding Section 1301.1(b)(1) of the
4		Code and the Company's plan to invest 50% of the "differential" resulting from the
5		implementation of Act 40?
6	А.	Yes, I have. As Ms. Ciullo noted, I will address that issue.
7	Q.	How does the Company plan to invest 50% of the "differential" (approximately
8		\$1.6 million per year) that Ms. Ciullo calculated?
9	А.	The Company plans to invest in projects that will enhance the reliability of the Company's
10		systems and may include projects to extend the Company's mains to address health and safety
11		issues pursuant to Rule 27.1(F) of its tariff or for infrastructure enhancement projects that will
12		improve the quality and reliability of service.
13		2020 RATE CASE SETTLEMENT COMMITMENTS
14 15	Q.	Has the Company complied with the terms and conditions of the Joint Petition for Non-
16	C.	Unanimous Settlement approved by the Commission in its 2020 base rate case?
17	A.	Yes, it has. The Joint Petition for Non-Unanimous Settlement, together with its attachments
18		and accompanying exhibits, is a lengthy document setting forth a number of terms and
19		conditions. I will briefly explain PAWC's compliance with major commitments in the Joint
20		Petition for Non-Unanimous Settlement directly affecting customer rates, customer service
21		and assistance to low-income customers, which I will reference by the applicable paragraph
22		of the Joint Petition for Non-Unanimous Settlement. I address the Company's commitments
23		relating to stormwater fees later in my testimony.
		- • •

Paragraph Nos. 23 through 25. The annualized credit of \$10.5 million to flow through to customers the excess accumulated deferred income taxes ("EADIT") associated with the amortization of EADIT during the period January 1, 2018 through December 31, 2020 is continuing through January 28, 2023. The adoption of this credit mechanism accelerated the flow-back to customers of this portion of the Company's EADIT amortization and substantially mitigated the effect of the increase in base rates approved in its last case.

Paragraph No. 28. The Company submitted with this filing a separate stormwater
and wastewater cost of service study for its three CSSs, Scranton, McKeesport and Kane.
Ms. Heppenstall is sponsoring the Company's cost of service studies for its water and
wastewater operations. While the Company submitted a separate cost-of-service study and
revenue requirement for its CSS operations to comply with its commitment in the Joint
Petition for Non-Unanimous Settlement, going forward, the Company recommends moving
to single tariff pricing for all wastewater operations as I discuss later in my testimony.

14 Paragraph Nos. 34 through 39. The Company adopted the COVID-19 relief 15 measures included in the Joint Petition for Non-Unanimous Settlement. During the midst of 16 the pandemic, PAWC waived reconnection fees for customers at or below 200% of the FPL 17 and the good faith payment requirement for its H2O Help to Others program. PAWC also 18 permitted customers to self-certify their income to qualify for the H2O program. In addition, 19 PAWC expanded its community outreach and developed a community outreach plan that 20 includes a strategy and tactics to enroll eligible customers with income at or below 50% of 21 FPIG. Lastly, PAWC increased its annual contribution to the H2O Help to Others hardship 22 grant assistance program from \$400,000 to \$500,000 for water operations and from \$50,000 23 to \$100,000 for wastewater operations.

1 Paragraph Nos. 40 through 44. The Company implemented the requirements 2 identified in the low-income program section of the Joint Petition for Non-Unanimous Settlement. PAWC established a Customer Assistance Advisory Group to solicit input to 3 4 enhance its H2O program. This group convened on May 24, 2021, August 16, 2021, 5 November 15, 2021, and February 28, 2022. The purpose of this group is to develop strategies 6 to expand outreach to low-income communities and identify new sources of funding for the 7 H2O program. In addition, PAWC updated its training materials and customer service center 8 scripts to direct customers who are having trouble paying their bills or seeking financial 9 assistance to PAWC's customer assistance programs.

Paragraph 45. The Company is tracking low-income customers protected from
winter moratorium termination consistent with 52 Pa. Code §§ 56.100(a) and 56.251.

12 **Paragraphs 46 through 49.** The Company adopted the procedures related to the 13 Discontinuance of Services to Leased Premises Act ("DSLPA") in the Joint Petition for Non-14 Unanimous Settlement. PAWC adopted a standard form for landlords to verify when a unit 15 is unoccupied at the time of disconnection of service. PAWC also agreed to accept a driver's 16 license, photo identification, medical assistance, food stamp identification, and similar 17 documents issued by a public agency to establish tenancy for purposes of the DSLPA. Finally, 18 PAWC modified its policies and training materials as provided for in the Joint Petition for 19 Non-Unanimous Settlement and fully complies with the procedures in the DSLPA.

Paragraphs 50 through 54. The Company adopted the language access procedures
 addressed in the Joint Petition for Non-Unanimous Settlement for Spanish-speaking
 customers. PAWC updated its SAP system in order to provide documents and written
 correspondence in Spanish to customers upon request. On November 15, 2021, PAWC

presented its translated billing information to its Customer Assistance Advisory Group to
 obtain feedback. PAWC's termination notices also have been modified to include information
 in Spanish, which directs Spanish-speaking customers to call a number for translation
 assistance.

5 Paragraphs 55 through 57. PAWC satisfied the other language access requirements 6 in the Joint Petition for Non-Unanimous Settlement related to non-English speakers. PAWC 7 developed a language access plan and presented the components of this plan to its Customer 8 Assistance Advisory Group. PAWC also is utilizing a third-party interpreter service upon 9 encountering a customer with limited English proficiency and is currently tracking, on a 10 quarterly basis, the language line usage. Finally, PAWC conducted a formal needs assessment 11 using census data to evaluate whether any of its water or wastewater zones are populated by 12 5% or more of individuals who speak a language other than English or Spanish. Based on this assessment, PAWC determined that none of its zones are populated by 5% or more of 13 14 individuals who speak a language other than English or Spanish.

15 Paragraphs 58 through 67. The Company adopted the changes outlined for 16 protection from abuse ("PFA") accounts in the Joint Petition for Non-Unanimous Settlement. 17 PAWC worked with the Pennsylvania Coalition Against Domestic Violence and its Customer 18 Assistance Advisory Group to develop updated policies, procedures, and scripting to help the 19 customer service center identify domestic violence victims and process protection from abuse 20 orders and similar court orders with clear evidence of domestic violence. A fact sheet for 21 customers was prepared in consultation with the Customer Assistance Advisory Group. 22 PAWC implemented training for its compliance, customer advocacy, and customer service 23 center teams to increase their knowledge regarding domestic violence issues. To maintain

1		extra confidentiality protections for domestic violence victims, PAWC established a dedicated
2		team who is responsible for communicating with customers with PFAs and similar court
3		orders, as well as a separate email address and fax number where PFAs and court orders can
4		be sent, which are only accessed by a limited number of PAWC employees.
5 6		PERFORMANCE FACTORS: <u>SECTION 523 OF THE CODE AND 52 PA. CODE § 69.711</u>
7	Q.	Does the Code authorize the Commission to consider performance factors in arriving at
8		a utility's allowable revenue requirement in a base rate case?
9	А.	Yes. Section 523 of the Public Utility Code provides that the Commission "shall consider"
10		the "efficiency, effectiveness and adequacy of service" of a utility when determining just and
11		reasonable rates.
12	Q.	What does Section 523 provide regarding performance factors to be considered by the
13		Commission?
14	A.	Section 523(a) requires the Commission to consider performance factors, while Section
15		523(b) identifies the kinds of factors that are relevant in assessing a utility's performance.
16		Section 523(a) and the portions of 523(b) that are relevant to a water and wastewater utility
17		are set forth below:
18 19 20 21 22 23 24 25 26 27 28 29		(a) Considerations. – The Commission shall consider, in addition to all other relevant evidence of record, the efficiency, effectiveness and adequacy of service of each utility when determining just and reasonable rates under this title. On the basis of the commission's consideration of such evidence, it shall give effect to this section by making such adjustments to specific components of the utility's claimed cost of service as it may determine to be proper and appropriate. Any adjustment made under this section shall be made on the basis of the specific findings upon evidence of record, which findings shall be set forth explicitly, together with their underlying rationale, in the final order of the commission.

1 2 3 4 5		(b) Fixed Utilities. – As part of its duties pursuant to subsection (a), the commission shall set forth criteria by which it will evaluate future fixed utility performance and in assessing the performance of a fixed utility pursuant to subsection (a), the commission shall consider specifically the following:
6 7 8 9 10 11 12 13 14 15 16		 (1) Management effectiveness and operating efficiency as measured by an audit pursuant to Section 516 (relating to audits of certain utilities) to the extent that the audit or portions of the audit have been properly introduced with applicable rules of evidence and procedure. * * * * (5) Action or failure to act to encourage cost-effective conservation by customers of water utilities * * * * (7) Any other relevant and material evidence of efficiency, effectiveness and adequacy of service.
17	Q.	Is the Company proposing that performance factors relating to its "efficiency,
18		effectiveness and adequacy of service" be considered by the Commission in this case?
19	A.	Yes, it is. For the reasons I will discuss later in my direct testimony, the Company strongly
20		
		believes, and proposes, that the Commission should implement the terms of Section 523 in
21		believes, and proposes, that the Commission should implement the terms of Section 523 in determining the Company's allowed rate of return on equity in this case. Specifically,
21 22		
		determining the Company's allowed rate of return on equity in this case. Specifically,
22		determining the Company's allowed rate of return on equity in this case. Specifically, Ms. Bulkley has recommended a range of reasonable rates of return on equity from 9.90% to
22 23		determining the Company's allowed rate of return on equity in this case. Specifically, Ms. Bulkley has recommended a range of reasonable rates of return on equity from 9.90% to 11.25%. Both Ms. Bulkley and I recommend that the Commission adopt a rate of return on
22 23 24		determining the Company's allowed rate of return on equity in this case. Specifically, Ms. Bulkley has recommended a range of reasonable rates of return on equity from 9.90% to 11.25%. Both Ms. Bulkley and I recommend that the Commission adopt a rate of return on equity of 10.8% – at the upper end of Ms. Bulkley's range – in recognition of PAWC's
22 23 24 25		determining the Company's allowed rate of return on equity in this case. Specifically, Ms. Bulkley has recommended a range of reasonable rates of return on equity from 9.90% to 11.25%. Both Ms. Bulkley and I recommend that the Commission adopt a rate of return on equity of 10.8% – at the upper end of Ms. Bulkley's range – in recognition of PAWC's superior management performance based on the factors that apply to water utilities in Section

⁵ Of course, if the Commission's market-determined rate of return on equity is greater than 10.55%, then the performance-based increment could be less than 25 basis points to achieve a final equity return rate of 10.8%.

Q. Please summarize the factors demonstrating the Company's exemplary management
 performance.

I am addressing eight areas: (1) the Company's dedication to assisting customers during the 3 A. 4 COVID-19 pandemic; (2) the Company's industry-leading programs to assist low-income and 5 payment-troubled customers; (3) the Company's environmental record and commitment to 6 water quality; (4) the Company's strong safety performance; (5) the Company's commitment 7 to continuous performance improvement for the benefit of customers; (6) the Company's 8 significant infrastructure investment; (7) the Company's community engagement and 9 consumer education initiatives; and (8) the Company's efforts to support the Commission's 10 and the Pennsylvania Department of Environmental Protection's ("DEP") long-standing 11 policy to eliminate the problems of small, troubled and nonviable water and wastewater 12 systems by acquiring those systems and making the improvements needed to assure safe and 13 reliable service.

14 Q. Please discuss the Company's COVID-19 relief measures to date.

15 Beginning in 2020 with the COVID-19 health emergency, PAWC was well ahead of the A. 16 nationwide mandates to suspend shutoffs and late fees and reconnect customers that were 17 shutoff for billing related issues. On March 12, 2020, PAWC voluntarily implemented these 18 measures because the Company felt it was the right thing to do for our customers during 19 extremely challenging times for the communities we serve and the country. The Company 20 reconnected customers who had been disconnected for non-payment of water and wastewater 21 services. For residential and non-residential customers experiencing financial hardship, 22 PAWC worked with those customers on payment arrangements.

1 The Commission allowed utilities to resume service shutoffs on November 9, 2020, 2 with certain consumer protections in place; however, PAWC chose not to resume assessing 3 late fees or shutting off water service for non-payment until April 2021. This extended 4 suspension applied to all customers, both residential and non-residential.

5 PAWC was proactive and engaged in extensive customer outreach throughout the 6 pandemic. During the first quarter of 2021, the Company's outreach included courtesy letters, 7 phone calls, emails, and a virtual information session on customer assistance programs. In 8 the winter and spring of 2021, PAWC dedicated resources to a customer education campaign 9 promoting the Company's payment assistance options as the Company moved toward 10 resuming service shutoffs in April. As part of this campaign, the PAWC's 30-second 11 animated customer assistance "commercial" ran on broadcast and cable TV, Hulu, YouTube 12 and Facebook/Instagram geo-targeted to media markets and zip codes across the Company's service area. In early April, customer phone calls, emails, and texts through the Company's 13 customer notification platform focused on available utility assistance programs. 14 This 15 initiative resulted in more than 532,000 successful phone messages delivered and 16 468,000 email messages delivered.

I previously discussed ERAP, which provided assistance to renters, landlords, and utility providers who have been affected by COVID-19. PAWC was proactive and engaged in extensive customer outreach to help ensure these funds were available to our customers. First, PAWC contacted all 37 counties in which the Company operates and provided each county with a process document along with the Company's W-9. The Company created a dedicated web page on its website with email and phone contacts for each county. PAWC also promoted ERAP on the Company's social media platforms and completed a statewide

1		customer email campaign in April and May 2021. PAWC conducted outreach to local
2		government officials and provided a shareable flyer and social media information. Finally,
3		the Company sent emails and letters in mid-May to all customers coded as landlord/ratepayer,
4		urging them to apply for ERAP.
5		As a result of the COVID-19 health emergency, PAWC also altered some of its H2O
6		hardship grant program requirements. PAWC modified the low funding threshold guidelines
7		for determining the point at which the Company will only accept applications from customers
8		whose service has been terminated. In December 2020, the Company also began waiving
9		good faith payment requirements for the program. Additionally, in December 2020, the
10		Company permitted customers to self-certify income for purposes of program qualification.
11		Finally, PAWC waived reconnection fees for customers at or below 200% of the federal
12		poverty level.
12 13	Q.	poverty level. Please discuss the Company's industry-leading efforts assisting low income
	Q.	
13	Q. A.	Please discuss the Company's industry-leading efforts assisting low income
13 14		Please discuss the Company's industry-leading efforts assisting low income customers.
13 14 15		Please discuss the Company's industry-leading efforts assisting low income customers. For more than 30 years, PAWC's H2O program has assisted customers in need. In fact, the
13 14 15 16		Please discuss the Company's industry-leading efforts assisting low income customers. For more than 30 years, PAWC's H2O program has assisted customers in need. In fact, the H2O program ranks at the top of Pennsylvania water utility customer assistance programs for
13 14 15 16 17		Please discuss the Company's industry-leading efforts assisting low income customers. For more than 30 years, PAWC's H2O program has assisted customers in need. In fact, the H2O program ranks at the top of Pennsylvania water utility customer assistance programs for the benefits it provides. To support the H2O hardship grant program, PAWC contributes more
 13 14 15 16 17 18 		Please discuss the Company's industry-leading efforts assisting low income customers. For more than 30 years, PAWC's H2O program has assisted customers in need. In fact, the H2O program ranks at the top of Pennsylvania water utility customer assistance programs for the benefits it provides. To support the H2O hardship grant program, PAWC contributes more of its shareholders' money, \$600,000 annually, than any other water utility in the
 13 14 15 16 17 18 19 		Please discuss the Company's industry-leading efforts assisting low income customers. For more than 30 years, PAWC's H2O program has assisted customers in need. In fact, the H2O program ranks at the top of Pennsylvania water utility customer assistance programs for the benefits it provides. To support the H2O hardship grant program, PAWC contributes more of its shareholders' money, \$600,000 annually, than any other water utility in the Commonwealth to help customers in need. Moreover, recognizing the impact of COVID-19,
 13 14 15 16 17 18 19 20 		Please discuss the Company's industry-leading efforts assisting low income customers. For more than 30 years, PAWC's H2O program has assisted customers in need. In fact, the H2O program ranks at the top of Pennsylvania water utility customer assistance programs for the benefits it provides. To support the H2O hardship grant program, PAWC contributes more of its shareholders' money, \$600,000 annually, than any other water utility in the Commonwealth to help customers in need. Moreover, recognizing the impact of COVID-19, PAWC contributed \$750,000 to the H2O hardship grant program in 2021.

1	in Mr. Rea's direct testimony (PAWC Statement No. 10), the Company is proposing to include
2	multiple tiers of discounts for both water and wastewater service based on different levels of
3	household income stated as multiples of federal poverty level.
4	Moreover, as discussed earlier in my testimony, PAWC is expanding its H2O program
5	to assist low-income customers by offering arrearage forgiveness through its AMP. Under
6	this program, qualifying customers will receive \$25 of arrearage forgiveness per month.
7	In addition, earlier this year, PAWC successfully implemented LIHWAP which
8	resulted in PAWC customers, as of April 14, 2022, receiving 5,948 grants totaling \$3,547,660.
9	The successful implementation of this program is due to PAWC's proactive engagement and
10	collaboration with DHS and extensive customer outreach. PAWC attended stakeholder
11	meetings, webinars and briefings prior to the LIHWAP launch. Additionally, prior to the
12	LIHWAP launch, PAWC developed a customer communications and outreach plan to help
13	maximize the impact of the program for customers facing challenges paying their bills. The
14	Company published a LIHWAP-specific page on its website, prepared talking points and a
15	one-pager about the program for its customer service, customer advocacy and external and
16	government affairs teams, included LIHWAP information in a statewide customer email
17	campaign, and sent a one-pager to municipal, county and state elected officials across
18	PAWC's service territory. From mid-January to mid-February, the Company sent a bill
19	enclosure about LIHWAP to all customers statewide, with a second bill image about LIHWAP
20	running statewide the following month. PAWC continues to actively promote the LIHWAP
21	program approximately once per week through its various social media channels, reaching
22	tens of thousands of customers to date.

1 In addition to these widespread education and outreach efforts, PAWC launched a 2 targeted LIHWAP email campaign on January 25, 2022 to approximately 10,000 customers with past-due balances, notifying them that they may qualify for grant assistance. On March 3 4 18, 2022 in advance of the end of the winter moratorium, PAWC launched a targeted 5 LIHWAP direct mail letter campaign to approximately 31,000 customers with past-due 6 balances. Additionally, for customers contacting the Company seeking payment 7 arrangements or assistance to avoid shutoff, PAWC's scripting refers the customer to 8 LIHWAP.

9 The Company also created customer assistance cards containing information about all 10 available water/wastewater utility assistance programs for field employees to distribute during 11 customer interactions in the field. To further assist customers who received bill payment 12 assistance through LIHWAP, the Company established a process to review each LIHWAP 13 grant recipient's account and enroll all customers in PAWC's H2O bill discount program, 14 which optimizes the level of assistance provided to those customers. The established process 15 also includes sending a letter to each customer informing them of enrollment in the 16 Company's H2O bill discount program.

17 Q. Does the Company's environmental record and commitment to water quality
 18 demonstrate excellent management performance?

A. Yes, it does. The Company has met and continues to meet all federal and state drinking water
regulations. As described in more detail in the testimony of PAWC witness Jim Runzer
(PAWC Statement No. 2), PAWC treatment plants are nationally recognized for optimization
and performance above and beyond regulatory standards. Part of providing water of the
highest quality is starting with quality water in the first place. PAWC is a leader in the

Environmental Protection Agency's ("EPA") Partnership for Safe Water Treatment Program, which means the Company treats water to a standard that surpasses the requirements imposed by EPA and DEP. As Mr. Runzer shares in his testimony, PAWC is proud of our efforts in source water protection. Through our participation in these programs and our internal practices and policies, the Company consistently meets our goal of providing high quality drinking water to customers.

7 PAWC is also committed to ongoing water quality improvement. To monitor water 8 quality and improve our processes, the Company relies on its central laboratory in Bellville, 9 Illinois to process hundreds of process samples in addition to compliance samples. These 10 process samples contribute to the Company's ability to continually improve water treatment 11 and optimize our facilities. As regulatory standards continue to shift, PAWC continues to 12 remain a leader. For example, the Company often monitors for potential pollutants where 13 such monitoring is not yet required by regulation, including PFAS and other emerging 14 contaminants. Where issues are identified, treatment technology is put in place to provide 15 assurance to the Company's customers that the water they drink is safe. Finally, to ensure 16 that water is safe all the way to the tap, PAWC has worked with the Commission and OCA to 17 develop and institute a lead service line replacement program, which allows the Company to 18 address lead service line concerns ahead of regulatory changes and remove this health risk for 19 customers as soon as possible.

As the Company continues to grow in its provision of wastewater treatment services, so grows the Company's commitment to ensuring that discharges leaving our plants are not impacting water quality in streams. Perhaps just as importantly, the Company has undertaken significant efforts to reduce the inflow of stormwater into our collection systems thus keeping

clean water clean and reducing treatment costs for customers. As described in more detail in the testimony of PAWC witnesses Mr. Runzer (PAWC Statement No. 2) and Mr. Aiton (PAWC Statement No. 3), it is the Company's commitment to water quality, environmental protection, and our customers that drive our investment in highly effective water treatment and the attention to detail at all levels of the organization to meet or exceed regulatory requirements. We are proud of the quality of water and wastewater service that we provide to our customers and the quality of water that we release back into our streams.

8 Q. Does the Company's safety record exhibit exemplary management performance?

9 A. Yes. The health and safety of our customers, communities and employees continues to be our
10 top priority. In fact, safety is a defined core value and strategy for the Company. In 2021,
11 PAWC experienced the best safety record in the Company's operational history. Mr. Runzer,
12 in his direct testimony (PAWC Statement No. 2), further describes the Company's safety
13 initiatives and programs that benefit our customers.

14 Q. Please describe how the Company's management is dedicated to continuous 15 performance improvement in any other areas.

16 A. The Company's management is committed to continuous improvement in all aspects of its 17 performance. In PAWC Statement No. 2, Mr. Runzer highlights the Company's continuous 18 performance improvements in several additional areas beyond those I have already discussed, including: (1) a robust program to reduce non-revenue water; (2) improvements in energy 19 20 efficiency and resulting reductions in energy costs; (3) improvements in operational efficiency 21 including successful efforts to control waste disposal, purchased water and vehicle fleet 22 expenses; (4) use of technology to improve field operations as well as enhance our 23 communications with customers; and (5) the Company's procedures related to the

Underground Damage Prevention Program, which resulted in 99.9% of tickets being
 responded to timely in 2021.

3 Q. Do the Company's significant infrastructure investments in the Commonwealth 4 demonstrate superior management performance?

5 PAWC has invested, over the past 15 years, more than \$4.2 billion in PAWC Α. Yes. 6 infrastructure. The Company's capital investments have resulted in infrastructure reliability 7 and resilience, which are important priorities for PAWC's leadership. Resilient infrastructure 8 allows the Company to avoid or minimize interruptions of service during extraordinary events, 9 such as extreme weather events. The resilience of PAWC's systems during Hurricane Ida in 10 September 2021 exemplifies PAWC's system resiliency. Hurricane Ida caused heaving rain 11 and major flooding and disrupted operations for many utilities throughout the country. 12 Nevertheless, during this weather event, PAWC's plants and supporting infrastructure 13 remained operational. The Company's investment in storm hardening and resilience resulted 14 in our utility infrastructure being more resistant to weather. Mr. Aiton's testimony also 15 includes several projects that will continue to improve the safety, reliability, and resilience of 16 PAWC's systems (PAWC Statement No. 3).

17 Q. Has PAWC taken a leadership role in community engagement and consumer education?

A. Yes. As the communities we serve needed support to address food insecurities during the
 COVID-19 health emergency, PAWC made donations to local food banks. In addition, the
 Company's Environmental Grant Program supports innovative, community-based
 environmental projects that improve, restore or protect the watersheds, surface water and
 groundwater supplies in local communities.

1		PAWC's public education program, especially its initiative to educate the youth of the
2		Commonwealth, is unsurpassed in depth and breadth. Not only do we conduct water camps
3		for elementary school children in the Commonwealth during the summer and teach classes on
4		watershed protection, water treatment, the water cycle and water conservation in the classroom
5		during the school year, we also conduct plant tours, judge "envirothon" competitions, and
6		participate in Earth Day activities. PAWC's annual "Protect Our Watershed Art Contest" for
7		4th, 5th and 6th graders throughout the Commonwealth attracts more than 500 applications.
8		PAWC's "Stream of Learning" scholarships support outstanding students in our service area
9		pursuing careers in the water and wastewater industries. Education of our youth produces both
10		short- and long-term benefits for water quality and reliability. These efforts are part of
11		PAWC's commitment to assure the wise and efficient use of water and to promote water
12		conservation.
13	Q.	Is there any other reason why you believe PAWC is entitled to an equity allowance that
14		recognizes exemplary management performance?
15		
	А.	Yes. The Commission adopted a Policy Statement on Small Nonviable Water and Wastewater
16	А.	Yes. The Commission adopted a Policy Statement on Small Nonviable Water and Wastewater Systems at 69 Pa. Code § 69.711 stating that it will consider regulatory incentives including
16 17	Α.	
	A.	Systems at 69 Pa. Code § 69.711 stating that it will consider regulatory incentives including
17	А. Q .	Systems at 69 Pa. Code § 69.711 stating that it will consider regulatory incentives including "rate of return premiums," to encourage and reward the continued acquisition of troubled
17 18		Systems at 69 Pa. Code § 69.711 stating that it will consider regulatory incentives including "rate of return premiums," to encourage and reward the continued acquisition of troubled water and wastewater systems by large, viable utilities.

22(a)Acquisition incentives. In its efforts to foster acquisition of23suitable water and wastewater systems by viable utilities when24the acquisitions are in the public interest, the Commission seeks25to assist these acquisitions by permitting the use of a number of

regulatory incentives. Accordingly, the Commission will consider the following acquisition incentives:
(1) Rate of return premiums. Under 66 Pa.C.S. § 523

3 (relating to performance factor considerations), 4 5 additional rate of return basis points may be awarded for 6 certain acquisitions and for certain associated 7 improvement costs, based on sufficient supporting data 8 submitted by the acquiring utility within its rate case 9 filing. The rate of return premium as an acquisition 10 incentive may be the most straightforward and its use is 11 encouraged.

12 Q. Has PAWC acquired troubled water and wastewater systems?

1

2

13 Yes. For more than 25 years, PAWC has been an industry leader in helping resolve the Α. 14 significant challenges faced by troubled water and wastewater systems. Since the Company's 15 last rate case, the Company completed the acquisitions of Delaware Sewer Company ("Delaware Sewer") and Winola Water Company, both of which were acquired pursuant to 16 17 66 Pa.C.S. § 529. The Company is committed to making capital investments to improve service to customers of these systems and increase environmental compliance. Mr. Aiton 18 19 discusses in his testimony (PAWC Statement No. 3) the major regulatory compliance 20 challenges with Delaware Sewer and PAWC's \$2.8 million investment to prevent future 21 NPDES permit violations. The Company has also acted as the receiver for Indian Springs 22 Water Company during the pendency of the Commission's proceeding under 66 Pa.C.S. 23 § 529. The Company remains committed to helping the Commission resolve the issues posed 24 by the many troubled systems that still exist across the state. Consistent with 52 Pa. Code § 69.711, a rate of return premium is appropriate to recognize the Company's efforts with 25 respect to troubled systems. 26

Q. What should the Commission conclude from all of the evidence PAWC has presented on its performance factors?

1	А.	The well-documented exemplary performance of the Company's management discussed
2		above fully justifies approving a rate of return at the upper end of Ms. Bulkley's recommended
3		range – namely, 10.80% – and, in any event, an increment of at least 25 basis points to a lesser
4		market-determined rate of return on equity approved by the Commission, up to 10.80%.
5		STORMWATER RATES
6	Q.	Did the Company make any commitments regarding stormwater fees for its CSSs in its
7		last base rate case?
8	A.	Yes. Paragraph 71 of the Settlement provides as follows:
9 10 11 12 13 14 15 16 17 18 19		Stormwater Rates: Under the Settlement, the Company agrees to propose potential recovery and rate methodology options for stormwater costs of combined sewer systems in its next general wastewater or combined water/wastewater base rate filing. The proposals will include an analysis of the recovery of such stormwater costs through various methodologies including forms of separate stormwater rates, and a description of the customers to whom the rates would apply. PAWC also agrees that, at intervals of approximately one year and two years after entry of the Commission's final Order approving the Settlement in this proceeding, unless the Company files a wastewater or combined water/wastewater general base rate case prior to either of those times, it will meet with the parties to this case to provide progress updates and discuss potential cost recovery methods under consideration.
20		To address this commitment, the Company engaged Gannett Fleming, Inc. to perform
21		the Feasibility Study, which is included as Exhibit No. 14-A. The Feasibility Study identifies
22		the different methodologies that could theoretically be used by the Company to develop a
23		separate stormwater fee and calculates potential stormwater fees for the Company's CSS
24		customers. Mr. Walker discusses his study in detail in PAWC Statement No. 14. In addition,
25		Mr. Aiton describes in detail several regulatory, technical, administrative, and implementation
26		challenges identified in the Feasibility Study associated with the Company charging its
27		customers a separate stormwater fee in PAWC Statement No. 3.

1

Q.

Does the Company support the development of a separate stormwater rate?

2 Α. No. As Mr. Walker explains, the Company would encounter many challenges that are unique 3 to a private company in setting up a stormwater fee. For example, PAWC would need to 4 select methods for communicating with at least 20 municipalities and three counties about 5 changes in land cover, land use, and parcel delineation that would affect implementation of 6 the stormwater fee. PAWC would also need to explore methods of billing property owners 7 for impervious area where PAWC does not have a contract to provide sanitary sewer services 8 (i.e., customers that do not contract for sewer service but still discharge stormwater into the 9 combined sewer system). PAWC would need to decide whether to calculate a stormwater fee 10 based on all impervious area within the service areas, all of the impervious area that lies on a 11 parcel of which at least a part of the parcel discharges to the combined sewer, or only the 12 impervious area that discharges to the combined sewer.

13 In addition to the issues identified by Mr. Walker, Mr. Aiton describes numerous 14 operational challenges associated with a stormwater fee, including the legal and practical 15 (collection) issues associated with the Company imposing a stormwater charge on a 16 landowner that is not a water or wastewater customer of PAWC and has not applied for any 17 form of service from the Company. Unlike municipal entities that have authority specifically 18 granted by state law to charge a stormwater fee to property owners identified from the 19 municipalities' own property records, the Company does not have specific statutory authority 20 entitling it to charge a fee to a "stormwater contributor" who is not otherwise a customer of 21 PAWC. Similarly, the Company's primary tool for collections is disconnecting water service 22 for non-payment. The Company does not have the authority to impose a lien on the property 23 of its customers for non-payment as a municipal entity does. In short, the Company has no

way to "disconnect" service if a customer that is not a water/wastewater customer does not
pay its stormwater fee. Additionally, even for customers that obtain water/wastewater service
from the Company, it is not clear whether the Company would have authority to disconnect
that service if the customer did not pay its stormwater fee. Consequently, for all those reasons,
it would be prohibitively difficult for the Company to pursue customers for non-payment of
stormwater fees.

Given the various challenges and barriers associated with trying to develop, implement
and administer a stormwater fee, as explained above and by Mr. Walker and Mr. Aiton, the
Company believes that it is neither feasible nor cost-justified to impose stormwater charges
in its CSSs.

Q. Based on your analysis, what are the methodologies the Commission could utilize for determining rates for a combined sewer system?

Besides a separate stormwater charge, which the Company does not recommend, there are at 13 A. 14 least two options that the Commission could apply for determining the rates of a collection 15 system. First, the Commission could require the Company to maintain a separate tariff group 16 for combined systems, with a separate cost of service study covering all combined systems 17 filed in each case, to avoid the costs of the combined sewer system being comingled with 18 separate sanitary sewer customers over the long term. Second, the Commission could 19 continue to apply its long-stated preference for single tariff pricing. The single tariff pricing 20 concept does not isolate a singular cost component, as would occur if the Company's 21 wastewater costs were separated into those caused by separate sanitary sewage and those 22 caused by combined wastewater.

Q. Please discuss the first methodology, regarding a separate tariff group and revenue
 requirement that could apply to collection systems.

A. This option was proposed in the Company's last base rate case as a method to address the concern about combined stormwater being included in the overall cost of service for wastewater customers. Under this methodology, the combined sewer systems would be separated into a separate tariff group, with eventual consolidation within the group of combined sewer systems.

8 While the Company continues to believe that this is preferable to separate stormwater 9 rates, full eventual consolidation of wastewater customers is the Company's recommended 10 outcome and is most consistent with the Commission's goal of single tariff pricing.

11 Q. Please discuss the Company's proposed cost recovery methodology for stormwater costs.

A. The Company believes that eventual single tariff pricing for all wastewater customers is in the
 long-term best interests of the Company's customers. Single tariff pricing allows for cost
 sharing across systems regardless of geographical or other system differences, which
 promotes equitable and non-discriminatory public utility service.

16 The Company's water tariff is an example of the success of single tariff pricing 17 allowed by the Commission. The Company's Zone 1 consolidated rates apply to more than 18 99% of the Company's 678,000 water customers. As discussed below, the Company proposes 19 further consolidation of those rates in this case. Consolidated rates enable cost sharing across 20 service territories, are easier for customers to understand, and are more efficient from an 21 administrative standpoint.

The Company's wastewater rates are significantly more fragmented. Of approximately
 82,000 wastewater customers, only about 27% are Zone 1. Another 21% are on separate rate

4	CONCLUSION
3	wastewater systems.
2	represent more than half of PAWC's wastewater customer base, are served through combined
1	schedules anticipated to move to or toward Zone 1 in this case. The remaining customers, who

- 5 Q. Does this conclude your direct testimony at this time?
- A. Yes, it does. However, I reserve the right to supplement my testimony as additional issues
 and facts arise during the course of the proceeding. Thank you.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY : COMMISSION • ÷ v. ÷ DOCKET NOS. R-2022-3031672 (WATER) : R-2022-3031673 (WASTEWATER) PENNSYLVANIA-AMERICAN WATER • COMPANY :

VERIFICATION

I, Ashley E. Everette, hereby state that the facts set forth in the pre-marked Statement No. 1 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Ashley E. Everette

Pennsylvania-American Water Company Rate Increase Request

Filing Date:	April 29, 2022
<u>Historic Test Year:</u>	12 Months Ended December 31, 2021
<u>Future Test Year</u> :	12 Months Ended December 31, 2022
Fully Projected Future Test Year:	12 Months Ended December 31, 2023

Increase Requested:	\$173.2 Million
Percentage Increase:	20.8%
Effective Date:	January 28, 2023 (based on full suspension)

Rate of Return:

7.87% on rate base; 10.80% ROE

Type of Capital	Proportion of Total	Cost Rate	Weighted Cost
Debt	44.79%	4.26%	1.91%
Preferred Stock	0.01%	9.70%	0.00%
Common Stock	55.20%	10.80%	<u>5.96%</u>
Total	100.00%		7.87%

Elements of Increase	Required Revenue
Capital Investment	\$87.0 Million
Declining Consumption	\$17.8 Million
Cost of Capital	\$21.2 Million
Acquisitions	\$27.5 Million
O&M and General Taxes	\$19.7 Million
Total	\$173.2 Million

PENNSYLVANIA-AMERICAN WATER RATE CASE FILING Docket No. R-2022-3031672 Docket No. R-2022-3031673

		Total Company <u>PROPOSED</u>
1.	Revenues at Present Rates	\$832,106,946
2. 3. 4.	Amount of Increase (Decrease) % Increase Revenue	173,155,952 20.8%
4.	Revenue	1,005,262,898
5.	O & M Expense	269,458,570
6. 7.	Depreciation General taxes	206,770,911 19,168,336
8.	Income Taxes	105,184,032
9.	Sub-Total	600,581,849
10.	Utility Operating Income	404,681,049
11. 12.	Interest on Long-Term Debt Other Interest	96,645,800 1,616,783
13.	Preferred Dividends	49,914
14.	Other Deductions	0
15.	Sub-Total	98,312,497
16.	Income to Common Stock (Fallout)	\$306,368,552
17.	Original Cost of Rate Base	\$5,145,726,373

Rate of Return and Return on Common Equity Absent Rate Relief

Utility Operating Income	\$283,845,404
Income to Common Stock (Fallout)	185,587,243
Original Cost of Rate Base	5,142,881,118
Common Equity	2,838,870,377
Rate of Return	5.52%
Return on Common Equity	6.54%

Statement No. 2 Runzer

PAWC STATEMENT NO. 2

DIRECT TESTIMONY OF JIM RUNZER

DESCRIBING PENNSYLVANIA-AMERICAN WATER COMPANY'S OPERATIONS, OPERATING EFFICIENCIES, EMPLOYEE LEVELS AND COMPENSATION, AND CUSTOMER EXPERIENCE

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY

DIRECT TESTIMONY OF JIM RUNZER

1	Q.	Please state your name and business address for the record.
2	A.	Jim Runzer, 852 Wesley Drive, Mechanicsburg, Pennsylvania 17055.
3	Q.	By whom are you employed and in what capacity?
4	A.	I am employed by Pennsylvania-American Water Company ("PAWC" or "Company") as
5		the Vice President – Operations.
6	Q.	What are your responsibilities as PAWC's Vice President - Operations?
7	A.	Due to the geographical size of the Company's service territory and the large number of
8		customers, PAWC Operations is divided into two areas. As Vice President Operations of
9		Central and Eastern PA, I am responsible for all of the water and wastewater operations in
10		22 districts. Diane Holder, Vice President of Western Operations is responsible for
11		16 districts. Together, we are responsible for managing a team of approximately
12		1,046 professionals, serving 2.3 million Pennsylvanians.
13	Q.	Please describe your professional education and experience.
14	A.	I received a bachelor's degree in education in 1991 from Kean University and a Master of
15		Business Administration in 2012 from the Keller Graduate School of Management. I also
16		completed Advanced Water Treatment and Distribution certification from the Camden
17		County Institute of Technology in 2004 and Advanced Wastewater Collection certification
18		from the University of Sacramento in 2014.

I began my career at American Water in 1994 as a bargaining unit employee for
New Jersey American Water Company ("NJAWC"), working in both Production and Field
Operations until being promoted to Operations Supervisor for NJAWC in Mount Holly,

New Jersey in 2008. I was promoted to Field Operations Superintendent in Delran,
New Jersey in 2011 and was then promoted to Operations Manager for the Atlantic/Cape
May New Jersey system in 2014 where I was responsible for Field Operations, Production
and Construction operations. I was named Director of Operations for Iowa American
Water Company in April 2018 and was later named Vice President of Operation for New
York American Water Company in July of 2019. I held that position until taking on my
current role as Vice President of Operations for the Company on June 28, 2021.

8 Q. What is the purpose of your direct testimony in this proceeding?

9 First, I will describe the Company's water and wastewater operations and facilities A. 10 throughout Pennsylvania. Second, I will describe Company programs that demonstrate our 11 commitment to excellent water quality and safety for both our customers and employees. 12 Third, I will describe our efforts to increase operational efficiencies, which includes 13 furthering the Company's gains in energy efficiency, continuing to reduce non-revenue 14 water, and expanding our use of technology in the field. Fourth, I will explain our 15 commitment to advanced metering infrastructure technology and its benefits to our 16 customers. Finally, I will describe the Company's current and anticipated employee levels, 17 employee compensation philosophy and commitment to employee development.

18

Operations and Facilities

19 Q. Please describe PAWC's operations.

A. PAWC owns, operates, and maintains potable water production, treatment, storage,
 transmission and distribution systems, and wastewater collection, pumping, and/or
 treatment systems, for furnishing water and wastewater services to approximately

760,000 residential, commercial, industrial, and governmental customers in communities
 located in 37 of the 67 counties across Pennsylvania.

3 The Company has established two geographically defined operating areas that 4 collectively serve an estimated population of more than 2.3 million people. The western 5 Pennsylvania operating area serves an estimated population of one million people located 6 in fifteen counties. Some of the larger communities served include Butler, New Castle, 7 Ellwood, Indiana, Punxsutawney, Warren, Kane, portions of the City of Pittsburgh and its southern suburbs, McMurray, Uniontown, Brownsville, and Connellsville. 8 Large 9 customers include U.S. Steel, the Western Allegheny County Municipal Authority, 10 AK Steel, Allegheny County Housing Authority, Koppel Steel, United Refining, Clarion 11 University and Eastman Chemical Company.

12 The eastern Pennsylvania operating area serves an estimated population of 1.3 million people in 22 counties. Some of the larger communities served include Wilkes-13 14 Barre, Scranton, Camp Hill, Mechanicsburg, Hershey, Palmyra, Philipsburg, Milton, 15 Norristown, Coatesville, Berwick, Milton, Yardley, and the suburbs of Reading. Several 16 of the large customers served in eastern Pennsylvania are Fairchild Semiconductor, 17 U.S. Penitentiary at Allenwood, Hershey Foods Company, Hershey Medical Center, Lion Brewery, Quaker Oats Company, Furman Foods, Norristown State Hospital, Montgomery 18 19 County Correctional Facility, Mittal Steel, ConAgra Grocery Products Company and 20 Glaxo SmithKline.

Q. Please describe the facilities and property that PAWC uses to provide water and wastewater services to customers.

3 PAWC's utility plant accounts include land and land rights, structures and improvements, A. 4 wells, pumping equipment and associated facilities, purification plant and equipment, 5 sludge disposal facilities, transmission and distribution mains, collection pipes, distribution 6 storage facilities, service lines, meters, hydrants, and other facilities, including materials and supplies. All this plant and property is used to provide safe, adequate, efficient, and 7 reliable water and wastewater services to PAWC's customers. A more detailed description 8 9 of the source of supply, treatment, storage, and distribution facilities within each district is 10 provided as Volume 2 of the Company's responses to the Commission's filing 11 requirements, which is titled Scope of Operations.

12

Water Quality

13 Q. Has PAWC been recognized for its optimization and water quality achievements?

Yes. PAWC has received multiple awards and been recognized for its dedication to and 14 A. 15 achievements in attaining exemplary water quality. PAWC is a participant in the 16 Partnership for Safe Water Treatment Optimization water treatment plant optimization 17 program and has repeatedly been recognized for its optimization and water quality 18 achievements. Nationwide, the Partnership for Safe Water Treatment Optimization 19 program currently has 501 treatment plants from 266 utilities in the program. As of 2021, 20 only 44 plants have received one of the program's highest honors, the Phase IV Presidents 21 Award. To date, PAWC has received nine Phase IV Presidents Award recognitions. Moreover, each of these nine PAWC plants were also recognized as 5-year President's 22

Award winners. Only 18 systems nationally have achieved this level of recognition. Therefore, PAWC accounts for 50% of these highest-level award-winning treatment plants.

Since the Company's last base rate case filing, PAWC's Rock Run Water Treatment Plant was also recognized for maintaining the Phase III Directors Award status for five years, and the Company's Stony Garden Water Treatment Plant (Blue Mountain System) and Clarion Water Treatment Plants were recognized for maintaining the Phase III Directors Award status for 10 years. An additional 27 PAWC plants were also recognized for maintaining the Phase III Directors Award status for 20 years.

9

1

2

Q. Please discuss some of PAWC's water quality initiatives.

A. PAWC is deeply committed to ensuring our customers receive water that meets all
 regulatory requirements, and we strive to provide water that exceeds those requirements.
 In order to meet these goals, PAWC has developed strict internal metrics to support
 exemplary water service.

14 For example, PAWC requires that all sample collection, review of results, and 15 reporting undergo dual validation internally prior to submittal to the reviewing regulatory 16 agency. This serves to ensure both data accuracy and that concerning results are addressed 17 immediately. The Company also recently instituted a policy requiring the development of 18 internal action plans to address testing results that show a contaminant level above 80% of 19 the established primary maximum contaminant level. The plans will be site specific, and 20 may include changes to treatment chemicals, distribution system improvements, or 21 modifications or additions to treatment trains.

These efforts are supported by our internal monitoring results program, Sample 1
 View ("Sample 1V"). Sample 1V provides a user-friendly dashboard for several critical

water quality measurements that is reflective of real-time sample collection in the field and
 has recently been updated to include bacteriological sample information. This is a
 powerful tool that allows PAWC staff to ensure all required samples are collected and
 observe and react to trends in samples.

5 I would also like to highlight the Company's environmental near miss program. 6 I will discuss the Company's near miss program in greater detail later in my testimony but 7 included within that program is a specific focus on environmental and water quality issues. PAWC takes a proactive approach in identifying potential water quality issues and 8 9 implementing prompt improvements. The environmental near miss program identifies 10 water quality or environmental vulnerabilities before they can create an adverse impact. In 11 2021, PAWC employees submitted over 135 environmental near miss reports, which 12 identified and avoided potential customer impacts in those 135 instances. In addition, because near miss reports, including environmental near misses, are shared statewide for 13 educational purposes, the impact and positive benefits from such near miss reports is much 14 15 broader than the specific near misses identified, as the reports often prompt proactive corrections for other customers in different areas of PAWC's system. 16

17 Q. Please discuss some of the Company's other water treatment effectiveness 18 initiatives.

A. The Company has invested heavily in facility upgrades to meet regulatory requirements
related to the Long Term 2 Enhanced Surface Water Treatment Rule. The Company
continually evaluates new treatment chemicals for improved treatment effectiveness,
safety, and cost efficiencies. Since our last rate case, the Company converted 7 treatment
plants from the use of gaseous chlorine for disinfection to liquid sodium hypochlorite or

ultra-violet ("UV") disinfection. The elimination of chlorine gas reduces the risk of toxic
 exposure for our employees and the surrounding communities. The Company will continue
 to convert its remaining treatment plants that utilize gaseous chlorine to either liquid
 sodium hypochlorite or UV disinfection until all of its chlorine gas locations are eliminated.
 This conversion process is also now standard practice as new systems are acquired by
 PAWC.

7 The Company also employs a proactive approach to protect customers from lead exposure in the drinking water the Company supplies, consistent with federal and State 8 9 regulatory standards established by the United States Environmental Protection Agency 10 ("USEPA") and the Pennsylvania Department of Environmental Protection ("PADEP"), 11 including the Lead and Copper Rule. Several of PAWC's systems are undergoing 12 corrosion control studies to review the effectiveness of corrosion control treatment measures. As explained in our previous rate case, we are continuing to implement an 13 14 industry-leading initiative to replace customer-owned lead service lines to address 15 conditions that may increase the risk of exposure to lead at the customer's tap.

PAWC also changed coagulant options at several of its treatment plants to provide improved treatment at reduced costs. One recent example is our Rock Run treatment plant, which switched to Ferric Chloride-polymer blend in 2021 with approval from PADEP. PAWC also improved the chemical feed systems at our Stony Garden and Montrose facilities. We are also addressing potential contaminants of concern, such as the emerging polyfluoroalkyl substances ("PFAS") contaminant. Our central laboratory is now certified to analyze PFAS samples, improving the Company's ability to test for these contaminants.

1 Q. Has the Company made efforts to improve operations at its wastewater facilities?

2 Yes. With the increasing number of wastewater facilities owned and operated by PAWC, A. 3 the Company is making significant efforts to improve effluent quality discharged to receiving streams. Examples of improvements include the transition to ultra-violet 4 5 disinfection at numerous wastewater plants and efforts to reduce inflow and infiltration in 6 our collection systems. The change to UV disinfection also reduces chemical usage and 7 eliminates the potential for chlorinated water to reach waters of the Commonwealth. This modification has occurred in 8 systems owned by PAWC and is currently being installed 8 9 at 2 additional locations - Scranton and Clarion.

10 Additionally, significant effort to reduce inflow and infiltration has occurred in 11 McKeesport, Dravosburg, Claysville and Duquesne. Finally, as new systems are acquired 12 by PAWC, the Company acts to improve effluent quality and return systems to regulatory 13 compliance. Two facilities in Kane are a recent example of such investment and 14 improvement.

15 Notably, to aid in improvements in wastewater quality, the Company also recently 16 created a new section that solely focuses on wastewater facility water quality and This focus is allowing us to develop and implement new operating 17 compliance. procedures, training, and optimization programs to continually improve our treated 18 19 effluent. Some concrete examples of improvement in our wastewater treatment include 20 improvements and standardization of our Industrial Pretreatment Program and the 21 development of wastewater specific curricula to continually improve operator knowledge 22 and plant optimization.

1

Q.

What other efforts has PAWC made to protect public health?

A. PAWC has partnered with the Allegheny County Health Department, Carnegie Mellon
University, and two other wastewater utilities to conduct wastewater surveillance to track
the spread of COVID-19 in Allegheny County. PAWC collects 24-hour composite
wastewater samples three times a week at three of our wastewater plants in Southwest
Pennsylvania. The data is shared with the Pennsylvania Department of Health and entered
into the Centers for Disease Control wastewater surveillance tracking system.

8

Source Water Protection

9 Q. Please describe how the Company is demonstrating its commitment to water quality 10 through source water protection.

11 A. The Company has a dedicated source water protection program, which includes personnel 12 who lead efforts to identify and mitigate potential threats to raw sources of supply. The 13 program involves an integrated approach to planning, risk assessment, water quality 14 monitoring, and outreach and education. The Company has deployed and continues to 15 evaluate and incorporate innovative technologies that support informed decision-making 16 for changes in raw water quality and corresponding treatment, whether naturally occurring 17 or related to a potential contamination incident.

18 Q. Please describe the Company's source water protection planning efforts.

A. The Company is committed to developing and implementing source water protection plans
for each system with a surface water and/or groundwater source. Each plan consists of the
following six elements: 1) local steering committee and public participation; 2) source
water protection area delineation; 3) contaminant source inventory; 4) management
methods and commitment; 5) contingency planning; and 6) protection of identified new

source sites. This work is done in conjunction with the PADEP Source Water Protection
 Technical Assistance Program ("SWPTAP"), and all PAWC systems have a source water
 protection plan in place or under development in SWPTAP.

4 Source water protection is also a critical component of the Company's risk and 5 resilience assessments ("RRAs") to comply with provisions of the federal Water 6 Infrastructure Act of 2018. The Company has conducted all required RRAs and developed 7 plans, strategies, and resources to improve the resiliency of PAWC's water systems.

8 Q. Please explain the Company's outreach and education efforts related to source water 9 and environmental stewardship.

10 A. The Company conducts outreach and education to engage the community in protecting 11 sources of drinking water. Activities include watershed service projects, school programs, 12 plant tours, and community events. PAWC also engages the community through annual 13 commitments, such as the Environmental Grant Program, Protect Our Watersheds Art 14 contest and the Stream of Learning Scholarship. In addition, PAWC staff represent the 15 Company and industry on various professional committees at the local and national levels 16 to share information and practices related to source water protection. These committees 17 include PA AWWA Water Resources, National AWWA Source Waters Protection, Local 18 Emergency Planning committees, and several other coalitions and advisory groups.

19 Q. Please describe any other innovative approaches the Company is using to protect 20 sources of drinking water.

A. The Company partnered with the Natural Resources Conservation Service ("NRCS") on
one of sixteen source water protection pilot projects initiated in 2019 under the National
Water Quality Initiative. PAWC worked with the State Conservation Office to identify the

1		Swatara Creek Watershed as a candidate for the program. Swatara Creek is a source of
2		supply for the PAWC G.C. Smith Hershey Water Treatment Plant. The project, funded by
3		the NRCS, is aimed at improving the watershed by reducing nutrient and sediment loading
4		from agricultural runoff. This effort has leveraged and directed funding toward water
5		quality improvements for the entire watershed that will ultimately benefit the whole
6		community including PAWC customers. We continue to support this initiative by
7		providing data and resources. We are also looking to partner with the 1 million trees
8		campaign, a Coldwater Heritage Partnership stream assessment, an Environmental
9		Protection Agency Acid Mine water study, and upstream restoration project evaluations at
10		two reservoir locations.
11		Source Water Monitoring
12	Q.	Please describe other ways the Company is demonstrating its commitment to source
12 13	Q.	Please describe other ways the Company is demonstrating its commitment to source water quality.
	Q. A.	
13		water quality.
13 14		water quality. The Company enhanced its source water protection program by taking an integrated
13 14 15		water quality. The Company enhanced its source water protection program by taking an integrated approach to monitoring its source water quality and evaluating risks to that source using
13 14 15 16		water quality. The Company enhanced its source water protection program by taking an integrated approach to monitoring its source water quality and evaluating risks to that source using innovative technologies, both of which support the Company's ability to make more
13 14 15 16 17		water quality. The Company enhanced its source water protection program by taking an integrated approach to monitoring its source water quality and evaluating risks to that source using innovative technologies, both of which support the Company's ability to make more informed decisions regarding treatment and in responding to potential source water
 13 14 15 16 17 18 		water quality. The Company enhanced its source water protection program by taking an integrated approach to monitoring its source water quality and evaluating risks to that source using innovative technologies, both of which support the Company's ability to make more informed decisions regarding treatment and in responding to potential source water contamination events. The integrated approach includes source water quality monitoring
 13 14 15 16 17 18 19 		water quality. The Company enhanced its source water protection program by taking an integrated approach to monitoring its source water quality and evaluating risks to that source using innovative technologies, both of which support the Company's ability to make more informed decisions regarding treatment and in responding to potential source water contamination events. The integrated approach includes source water quality monitoring panels and a map-based information gathering tool called WaterSuite.

¹ Data sources may include publicly available regulatory databases, aerial imagery analyses, and local knowledge.

1 updated on a regular basis to include the latest available information and has search and 2 reporting capabilities, which provides a significant advantage over standard static 3 contaminant assessments. This gives the Company a dynamic tool it can continue to use 4 over time rather than a paper-based equivalent that captures only the circumstances present 5 at a single point in time. The database also provides a larger set of data that is automatically 6 updated on a periodic basis without requiring manual work by PAWC. As a result, PAWC 7 can access more information more efficiently to address water quality concerns than in the 8 past. WaterSuite is fully implemented for surface water and groundwater systems. The 9 Company uses monitoring panels and WaterSuite together to better inform its treatment 10 decisions and response to a potential contamination event.

11 The Company also implemented the use of SolarBee mixers in four reservoirs to 12 disrupt algal growth. To support the Company's efforts to combat algal growth, PAWC 13 purchased a Cyanotoxin Automated Assay System for in-house rapid testing associated 14 with Harmful Algal Blooms. In addition, the Company monitors emerging technologies 15 and evaluates the use of new monitoring technologies.

16 Q. Please describe PAWC's source water quality monitoring panels.

A. The Company installed an online, source water quality monitoring device at each of its
surface water treatment plants as an effective tool for optimizing treatment decisions and
aiding in the detection of potential source water contamination. The sensors in each panel
monitor parameters in the source water that include turbidity, pH, oxygen reduction
potential, temperature, conductivity, dissolved oxygen, dissolved organic carbon, oil, and
total organic carbon. This equipment helps establish baseline water quality data for each
parameter and alert water plant operators to certain changes in water characteristics. The

Company uses this information to better understand the characteristics of its source water and optimize chemical usage. In addition, a change in the baseline characteristics may indicate an issue that warrants additional investigation. The Company is also piloting an AI program to assist in the detection of source water anomalies from the real-time data being collected with the panels.

6 Q. Does the company utilize any other sources to obtain source water quality 7 information?

A. The Company also participates in watershed monitoring networks such as the Ohio River
Valley Water Sanitation Commission Organics Detection System, Delaware River Valley
Early Warning System and the River Alert Information Network. These networks provide
additional information about water quality in the watersheds that contribute water to
sources of supply. The Company is also involved with the development of the Southwest
Pa Water Network for the Upper Ohio River Basin.

14 Q. Please describe how the Company prepares for source contamination events.

15 The Company has developed source water contingency plans to outline the planned A. 16 response to contamination of surface water sources of supply. These plans include system-17 specific options to consider in a contamination event along with a phased protocol 18 response. This approach is consistent with National Incident Management System and USEPA guidance, and augments emergency response plans that cover a wide variety of 19 20 potential emergency situations. The Company also developed Cyanotoxin Management Plans to aid in the identification and response to harmful algal blooms. PAWC employees 21 22 receive training on the contingency plans through online learning and emergency response

1		drills, which are coordinated by operations and include on site mock drills, tabletop
2		exercises and after-action reporting.
3	Q.	How does the Company compare to the rest of Pennsylvania drinking water systems
4		for Source Water Protection Plan development?
5	A.	All of Pennsylvania American Water Systems are in the Source Water Protection
6		Technical Assistance Program with approved PA-DEP Source Water Protection Plans and
7		Small System Plans or have draft Source Water Protection Plans that are awaiting PA-DEP
8		approval. The total number of systems and PAWC systems is reflected in the statistics
9		below:
10 11 12 13		 (PADWIS) Community Water Systems in PA: 1,901 (Non-community/non-transient are not in this number) TOTAL number of project systems in SWPTAP: 292 Number of PAWC project systems in SWPTAP: 45 TOTAL number of Small Systems Projects 108
14 15		 TOTAL number of Small System Projects: 198 Number of PAWC small systems: 17
15	Q.	• Number of PAWC small systems: 17
15 16	Q. A.	Number of PAWC small systems: 17 <u>Commitment to Safety</u>
15 16 17		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety.
15 16 17 18		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety. The health and safety of our employees and customers, as well as protecting the quality of
15 16 17 18 19		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety. The health and safety of our employees and customers, as well as protecting the quality of the water we deliver, are the top priorities for our Company and critical to our success. Our
15 16 17 18 19 20		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety. The health and safety of our employees and customers, as well as protecting the quality of the water we deliver, are the top priorities for our Company and critical to our success. Our colleagues', contractors', and customers' safety are very important, and we focus on safety
 15 16 17 18 19 20 21 		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety. The health and safety of our employees and customers, as well as protecting the quality of the water we deliver, are the top priorities for our Company and critical to our success. Our colleagues', contractors', and customers' safety are very important, and we focus on safety every day. PAWC's commitment is to ensure that every employee chooses safety, so they
 15 16 17 18 19 20 21 22 		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety. The health and safety of our employees and customers, as well as protecting the quality of the water we deliver, are the top priorities for our Company and critical to our success. Our colleagues', contractors', and customers' safety are very important, and we focus on safety every day. PAWC's commitment is to ensure that every employee chooses safety, so they go home each day in the same or better condition than they came to work.
 15 16 17 18 19 20 21 22 23 		 Number of PAWC small systems: 17 <u>Commitment to Safety</u> Please describe PAWC's overall commitment to safety. The health and safety of our employees and customers, as well as protecting the quality of the water we deliver, are the top priorities for our Company and critical to our success. Our colleagues', contractors', and customers' safety are very important, and we focus on safety every day. PAWC's commitment is to ensure that every employee chooses safety, so they go home each day in the same or better condition than they came to work. The Company is also committed to securing assets across our system and

1 recognition that rapid response and recovery from security incidents are critical to 2 maintaining resilient water and wastewater systems.

3 0. How is safety relevant to operational performance?

4 The Company considers safety to be a core value, as well as a strategy. Employee health A. 5 and safety is the responsibility of every PAWC employee, and to that end, every employee 6 strives for safety. We ask our employees to place safety first in everything they do. We 7 have a strong commitment to our employees (and their families) to keep them, our customers, and the public safe. A safe workplace increases employee morale, increases 8 9 our commitment to one another, and makes for a more engaged and productive workforce.

10 Please describe PAWC's safety program and Operations' role in promoting safety Q. 11 and a safe working environment at PAWC.

12 The Company's safety program includes multiple activities and initiatives to maintain A. 13 compliance, support employee engagement, and help ensure the safety of our workforce 14 and our customers, as well as the public. Operations is responsible for administering the 15 health and safety program, which includes the delivery of all Occupational Safety and Health Administration ("OSHA") required training, training and qualification of 16 17 employees, physical security, cyber security, business continuity planning, and event 18 management. We are supported by functional departments within American Water Works 19 Service Company, such as Health & Safety, Learning & Development, Security, and 20 Human Resources, to deliver core operations services.

21 **Q**.

How do you know the commitment to safety is effective?

22 A. We are building a strong safety culture at PAWC, which is illustrated by our year-over-23 year safety performance. The Company's OSHA recordable incident rate ("ORIR")

improved from 2.54 in 2018 to 0.77 in 2021. At the conclusion of 2021, PAWC had its
 best safety record in its operational history. The Company experienced 9 OSHA recordable
 injuries (compared to 29 in 2018). This reduction resulted in record rates in two key safety
 performance metrics: an ORIR of 0.77 and a Days Away Restricted or Transferred rate of
 0.35, demonstrating a 69% reduction in incidents.

6

Q. What other safety programs does PAWC use?

7 A. In addition to establishing ORIR targets, the Company's Near Miss Reporting Program 8 involves employees identifying hazards that could have resulted in an injury or accident. 9 For example, if a piece of equipment becomes worn outside of a regular maintenance cycle, 10 an employee reports this as a "near miss" and we can then replace the worn part and avoid 11 a potential injury from an equipment malfunction. Near Misses improve safety by 12 encouraging employees to look for hazards in the workplace, which improves the 13 employees' awareness and helps make our workspaces safer. PAWC has continuously 14 sought improved safety results, which directly correlates with the increase of Near Miss 15 submittals. American Water's health and safety group collects these near misses from 16 operating utilities across the American Water footprint each week and selects several to highlight in a safety video that is distributed across the business for use in safety tailgate 17 18 discussions.

PAWC also uses the services of an occupational training and information company
 called Occupational Athletics ("OA"). OA supplies two (2) athletic trainers, one in eastern
 PA and the other in western PA, to provide training, health-related information, on-site
 first aid medical services and injury (home/work) consultation to our employees. OA has
 developed and implemented ergonomic programs to reduce and eliminate soft tissue

injuries (strains and sprains) for our affected field operations and treatment plant
employees. In 2021, PAWC had 9 injuries classified as "ergonomic" in nature, down from
our 2018 total of 32 ergonomic related injuries. In 2021, PAWC will also utilize OA to
provide First Aid/CPR/AED training for our employees and we now have 94% of our
employees certified.

6 PAWC employees also participated in the American Water "Certified Safe 7 Worker" program. This program is a self-directed program documenting work and at-8 home safety activities. In 2021, 1,029 PAWC employees completed the program, 9 achieving the highest number of Certified Safe Workers in our history and the highest total 10 in all the American Water subsidiaries.

11

Q. How did PAWC perform in the Near Miss Reporting Program?

12 PAWC has achieved considerable progress since the program's inception in 2015, with A. 13 increasing numbers of "near miss" reports. In 2021, PAWC employees reported 1,803 near 14 misses from across the state, far surpassing our goal of 1,170. This is more than triple the 15 number of near misses reported in 2019 and reflects the increased employee awareness and 16 use of this program. Most near miss reports are corrected by an individual employee 17 identifying the issue and resolving the issue or working with the appropriate people to obtain resources where necessary. PAWC has also experienced an 88% increase in near 18 19 miss STOP Work situations, a principal indicator of an advancing safety culture. Another 20 success is that 99% of all near misses reported in 2021 were corrected within 30 days of 21 the report. In 2022, PAWC's goal is to achieve 1,200 near miss reports. While our effort 22 is to reduce the number of hazards found in our work areas, we want to once again continue 23 the goal of one Near Miss for each PAWC employee this year. We believe that this

increased emphasis on safety awareness will eventually enable PAWC to go a full year
 without a recordable injury.

3

Q. How has this benefited PAWC's customers?

A. A strong safety culture is a cornerstone for any high performing organization. A strong safety culture also improves employee morale, as employees understand a meaningful commitment to them and to their families. In turn, PAWC's safety culture helps ensure that our employees are thoughtful in their work, which directly benefits our customers, as safety is a leading part of our high-performance culture. Lastly, when employees are healthy at work, they are available for work that benefits the customers.

10 Q. How does PAWC handle emergency response issues?

A. PAWC maintains emergency response manuals at each operating location. The manuals
are updated each year and include emergency phone numbers for company personnel,
PADEP, the Pennsylvania Public Utility Commission ("Commission"), emergency
response services, vendors, suppliers, and critical customers. In 2021, PAWC conducted
six functional water/wastewater treatment plant emergency response tabletop exercises.
These events test each plant's ability to function during an emergency, which could include
a power outage, chemical supply issues, cyber-attack, or other similar event

18 Q. What operational measures has the Company implemented in response to the 19 COVID-19 pandemic?

A. PAWC continues to maintain a pandemic response program that was initially enacted in
 March of 2020. Protocols were put in place then to keep our employees safe, including
 wearing personal protective equipment (e.g., masking and wearing hand protection), social
 distancing, implementing vehicle passenger protocols, quarantine requirements, and

contact tracing protocols. In some cases, where employees were able to do so, remote
 working schedules were initiated to reduce exposure to COVID-19. PAWC currently has
 not experienced any COVID workplace transmissions throughout the entire pandemic,
 which indicates our protocols were, and continue to be, effective and followed by
 employees.

6

Operational Efficiency

7 Q. Please describe PAWC's operational efficiency initiatives.

8 The Company's ongoing focus on operational efficiency covers a wide range of targeted A. 9 measures to enhance efficiencies, including supply-side practices, such as increased pump 10 efficiency, more accurate meter reading and leak detection, and main replacement and 11 repair programs, as well as demand-side strategies, such as customer efficiency and public 12 education programs to support water and energy efficiency. From an operations 13 perspective, improving water efficiency requires achieving a cost-effective mix of prudent 14 investments and improved operations and maintenance management capabilities targeting 15 safety, customer satisfaction, sustainability, and system efficiency. Improving water 16 efficiency results is a win-win-win situation. Customers, utilities, businesses, and the environment can all benefit from more efficient, higher quality service, reduced costs, and 17 sustainable use of natural resources. 18

19

Q. Please discuss PAWC's use of technology to enhance operational efficiency.

A. The Company's ongoing investment in technology and process improvements provides a
 better end-to-end view of PAWC's water and wastewater business. Improved work
 management systems, water usage monitoring and leak detection, water quality
 monitoring, and consumer-communications technology are just some of the benefits that

result from the deployment of intelligent infrastructure, advanced communications, sensor networks and other technologies.

1

2

3 For instance, improved metering results in more accurate usage information. This results in more accurate billing, minimizing the need for a customer to contact our customer 4 5 service center with billing questions. Leak detection programs can reduce the amount of 6 water and energy required to deliver the same amount of water to consumers' taps. As I 7 discuss later in my testimony, PAWC has a comprehensive program to manage water losses 8 and proactively promotes wise water usage to customers, which can reduce customer 9 demand. Each year, our teams also participate in a variety of community events, 10 environmental grant programs, and firefighter grant programs. These events provide our 11 employees an opportunity to meet and discuss with our customers water conservation, leak 12 detection in our customers' homes, and other ways that customers can improve their water efficiency. PAWC implemented a successful Wise Water Use program that educates 13 14 residential customers on measures to lower their water bills, encouraging them to 15 implement simple practices around the home to conserve water and fix water leaks in a 16 timely manner. Striving for increased water efficiency is evident in our infrastructure 17 investments, which include main and service replacements to provide a better, more reliable system. 18

Prudent investment in technology enables us to leverage the size and scale of American Water to reduce manual tasks and increase automation. Our water efficiency efforts are demonstrated by investments in new metering and innovative data collection technologies, and by improved business processes that help us work smarter and more efficiently and, by extension, contribute to our cost control efforts.

2

Q. Can you provide some more specific examples of how technology has played a role in more efficient operations?

3 Accurate electronic maps ensure that the institutional knowledge currently held by some A. 4 of our employees is captured for use by current and future employees. To that end, we 5 have loaded our facilities into GIS so that maps of PAWC's water and wastewater systems 6 are accessible online to PAWC personnel. GIS includes the location and a short description 7 of the facilities, giving us an electronic spatial view of our entire system. Having accurate coordinates of underground assets, particularly valves, helps us to locate and isolate 8 9 sections of pipe during main breaks and is critical when marking water lines for 10 construction activities under the state's 8-1-1 Pennsylvania One Call program. GIS also 11 helps us locate customers that might be impacted by related service issues and allows us to 12 communicate the impact of service issues directly and more effectively with our customers.

More recently, we have been training construction inspectors to use GPS equipment to capture the coordinates of our equipment as it is being installed. This helps reduce the time to upload new pipeline to the GIS system and streamlines the as-built process for better asset and financial management.

The Company also uses MapCall, which is a web-based work management system that enables Operations' Production and Transmission & Distribution teams to complete the lifecycle of work orders and equipment. This application provides a more intuitive interface among PAWC's enterprise software, GIS, and Company employees in the field to further enhance employee effectiveness. The MapCall system provides the flexibility to create work orders, configure workflows and report progress while in the field, all in real time. For example, a supervisor can create a work order to flush a dozen hydrants in a

1 particular area, and the field worker can report progress as flushing is performed using 2 MapCall. Both the supervisor and others in the field can visually see the progress made 3 toward completing the identified work in real time through the MapCall interface. The 4 same can be done to schedule and monitor other routine work, as well as emergency work, 5 such as main break repairs. As MapCall matures, field workers will be able to access 6 pressure and flow sensor data in the field to see the impact of their activities, allowing them 7 to address potential issues that may arise in a timelier manner and minimize the impact on 8 service to our customers.

9 Q. Is there any other technology used by the Company to increase efficiency in the field
10 that you would like to discuss?

A. In addition to GIS and MapCall, the Company continues to innovate by developing
applications that make it easier for workers to obtain and provide information from the
field. These applications include Work1View ("W1V"), Meter Ops and Sample1View
("S1V"), each of which provides more comprehensive and easily accessible information to
employees.

16 Field Service Representatives ("FSRs") are assigned work and send results back to 17 the Company's enterprise resource planning system through the W1V user interface, which 18 is easier and quicker to change to meet the changing needs of the end user. W1V is a tool 19 built largely with the input of field employees for deployment in the field. It provides a 20 single view for managing work in the field, customer information and meter information. 21 W1V includes a real-time operations map to see work orders with optimized routing, as 22 well as other types of work and alerts happening in nearby areas. In addition, when using 23 W1V, FSRs can manage their own work based on the day's demands by adding or deferring undated work and putting orders on hold for emergency work needed at other locations.
 Supervisors can also ensure that sensitive or critical work is prioritized and completed in
 the required period.

4 Meter Ops is another application that supports our continued efficiency, and which 5 provides a superior level of insights into meter data. The app is designed to gauge the 6 health of PAWC's meters, provide information on how accurately the meters are 7 functioning, and mitigate zero or estimated reads, which lead to lost revenue. Meter Ops monitors over 20 key attributes for each meter, including manufacturer, size, installation 8 9 date, location (both on a map and whether it is located inside or outside), customer 10 information, and historical data such as past alarms, work orders, customer contacts and 11 visits, and reading and billing information.

12 Finally, the Company has deployed the S1V application to track water quality samples taken in the field and document the chain of custody until results are produced. 13 14 S1V is also a sampling planning tool that provides reminders to sample collectors regarding 15 the date, location and type of sample to be taken to ensure that samples are not missed. It 16 is GIS capable, so employees can more easily route themselves to the sampling locations. 17 Once fully developed, the app will produce reports for submission to regulating authorities 18 and provide analytical capability to internal staff to better understand our sampling program. The system is being used by all staff for the collection and reporting of 19 20 compliance samples and has improved staffing efficiency significantly. In addition, we are 21 working with a third-party vendor called Waterly to standardize collection and reporting 22 of production data for our water and wastewater operations tied to our SCADA 23 system. Enhanced benefits of the program will include validating entries that may be

outside an expected range and real time alerting if processes are trending out of
 specifications. Real time visibility on any device will allow for a decreased amount of time
 needed for administrative tasks. The efficiency created will increase accessibility for
 Water Quality and production staff to provide transparency of process monitoring,
 reporting, and auditing.

6

7

These technological advancements will continue to improve customer experience and satisfaction as efficiently as possible.

8 Q. How will employees working in the field access this information?

9 A. These new applications are compatible with computers, smart phones and tablets. Our
10 employees will be able to access all of their Company applications on their phone, laptop
11 or tablet and see the location of facilities near them.

12 Q. What are some benefits of field workers having smart phones and tablets?

13 Smart phones and tablets allow employees to work with technologies that are more mobile, A. 14 intuitive, user-friendly and familiar. Providing smartphone and tablet access to various 15 applications also supports more efficient operations, improves communication, and further 16 bolsters our safety program. In addition to accessing system maps as discussed above, 17 employees will be able to communicate more efficiently through a messaging platform that 18 is currently used across the business by employees with computer and smartphone access. 19 Smartphones and tablets also provide the added benefit of a camera. Employees can take 20 pictures of equipment and fittings that can be stored in our GIS system. Employees also 21 use smartphones and tables for the 8-1-1 PA One Call program to verify that we have 22 properly marked the location of the Company's underground facilities. Workers are also 23 required to complete on-line job site set up forms before they initiate work. The online

form steps a worker through a wide variety of safety categories, such as ensuring a mark out ticket was obtained (if required), confined space permit requirements, and ensuring
 Lock Out/Tag out is performed on any energized equipment. Material data sheets are also
 available through the new work order management systems. Embedding this functionality
 in the online work order provides more assurance that employees are following the right
 safety procedures.

Q. How is the Company using technology to enhance its communications with customers?

9 A. Customer value is an integral component of our technology and innovation considerations.
10 In addition to the technology-based improvements in water quality monitoring and
11 treatment, water usage monitoring, leak detection and energy efficiency, among others, the
12 Company has also made enhancements to its customer communication technology.

In 2020, American Water launched "myWater" app, where PAWC customers can 13 14 more easily access their accounts through a newly developed, mobile-friendly account 15 management site. This application allows customers to make payments, view their water 16 usage history and receive real-time alert notifications. Customers are also able to report 17 emergencies and receive status updates directly on the app. As we continued to see more 18 enrollments in our online account management site, we realized PAWC needed to update 19 its interface and allow customers to view their information more easily. We launched the 20 myWater platform in direct response to feedback from our customers, who told us they 21 want to manage their accounts online more efficiently.

Customers now have better functionality and more options to view their account on computers or smart phones. Through the end of 2021, 54% of our customers have enrolled

in myWater and 23% have signed up for paperless billing. Over 24% of the Company's
 customers use the auto-pay function, which is a convenient and efficient way for us to
 collect bills and for customers to save time.

We recently updated myWater. In addition to the various features customer have come to rely upon, our customers can now quickly view bill details, review service alerts in the customer's area, and sign up for payment assistance online.

7 We also continue to use the Code Red system, a customer-facing cloud-based 8 platform, which allows the Company to directly communicate with customers and issue 9 timely notifications in the event of a water quality issue (boil water advisories, hydrant 10 flushing, do not use orders, etc.). In 2022, we enhanced this effort by connecting the Code 11 Red System to the Customer Notification Map, which linked directly to our MapCall work 12 management system for real-time customer updates. on emergency shutdowns, planned shutdowns and boil water notifications. The user-friendly customer advisory map allows 13 14 our customers to view active water service disruptions in the customer's area, planned 15 service outages, hydrant flushing notices and boil water advisories.

16 Q. How is the concept of increasing and enhancing operational efficiency relevant to this 17 case?

A. Increasing and enhancing operational efficiency not only reduces expenses, but also is a
 more environmentally friendly way of conducting business. When water is used
 efficiently, it reduces capital and operating costs related to the provision of water and
 wastewater services, while also helping to protect and preserve our natural resources.
 Increasing and enhancing water efficiency saves customers money in the long run, protects
 the environment, supports integrated resource planning, and enhances the economy.

1 Q. What is the Company's goal?

2	А.	Our goal is to provide quality water and wastewater services as efficiently as possible, and
3		by doing so, to increase the value of our services. Below I provide more detail on how the
4		Company's investments and efficiency improvements aim to advance these goals.
5		Operating and Maintenance Expense
6	Q.	What is PAWC's forecasted O&M expense for the fully projected future test year
7		("FPFTY") ending December 31, 2023?
8	А.	PAWC's total O&M expense for the FPFTY is approximately \$269 million.
9	Q.	How does the Company's O&M expense claim for water operations in this case
10		compare to PAWC's last rate case at Docket No. R-2020-3019369?
11	А.	As explained by Ms. Lori O'Malley (PAWC Statement No. 5), the overall O&M expense
12		level claim in this case represents a 2.26% annual increase over the level of O&M expenses
13		claimed in the last base rate case, plus an additional 4.84% annual increase that is
14		attributable to the 8 acquisitions since the last base rate case.
15	Q.	Why has the Company experienced higher O&M expense levels since its last base rate
16		case?
17	А.	We have seen an overall increase in the cost of supplies, which has been exacerbated by
18		supply chain shortages. The most impactful increase in supply costs to O&M expense has
19		been the cost of chemicals. Due to the volatility of the chemical supply market, driven by
20		both materials and transportation, we have been required to pay significantly higher prices
21		from suppliers unwilling to commit to long-term agreements. We have also been impacted
22		by the increased costs of fuel for our vehicles and generators. The Company has also

experienced increased O&M expense from employee-related costs including wage
 increases, training, and development.

As PAWC has grown over time, many of the systems we acquired require significant work to address outstanding operational issues. In our efforts to provide excellent water and wastewater quality and service, particularly in newly-acquired systems, we incur increased expenses related to maintenance of assets and operating the facilities. These efforts will marginally increase operating expenses to improve operational integrity and mitigate operational risk.

9

Reducing Water Loss

10 Q. What is non-revenue water ("NRW")?

11 Non-revenue water is the difference between system delivery and water sales. Typically, A. 12 NRW is measured as a volume, or a percentage of system delivery based on a 12-month 13 rolling average. NRW is not just leakage, but also includes water for beneficial uses such 14 as firefighting, flushing new water mains, and annual hydrant flushing, as well as theft, and meter inaccuracies. To avoid any ambiguity, American Water, based in part on guidance 15 16 from the American Water Works Association, measures its reduction in water loss in terms of NRW rather than Unaccounted for Water ("UFW").² In contrast to UFW, which can be 17 18 defined in a variety of ways across the water industry, NRW is consistently calculated by 19 subtracting the number of gallons of water sold from the number of gallons of water treated.

² The AWWA began to discourage the use of the term Unaccounted for Water (UFW) in 2012 because its definition is inconsistent from organization to organization. There are several opportunities for inconsistency. For example, some organizations may deduct the number of gallons lost during a known main break, while others exclude gallons lost as a result of main breaks altogether.

Q. Please describe the Company's program to reduce NRW.

A. As noted, reducing water loss is a very complex issue with many contributing factors. To
reduce actual water losses as effectively as possible, we stress the need to gather standard
data from our operating centers so that we can efficiently and effectively communicate
what is working, what is not working, and how we are progressing on mitigating NRW
around the Commonwealth.

7 The Company rigorously applies water loss reduction practices in the normal course 8 of business. These practices include regular monthly NRW meetings in both our east and 9 west divisions that provide target NRW reductions and goals by independent NRW report 10 cards of activities, routine maintenance, and pursuing and repairing leaks that are 11 identified. In addition, the Company has several NRW control measures embedded in its 12 on-going business practice, which consist principally of:

- Monitoring night flows within the different district metering areas across its
 systems (unexpected usage during off-peak periods can indicate leakage).
- Metering water usage within various parts of a water district as another indicator of
 possible leakage; the addition of District Metered Areas (DMA) working in
 conjunction with advanced metering infrastructure customer metering to assist in
 lost water identification within an operating district.
- Using NRW-trained crew to find and report leaks daily, which are then promptly
 repaired.
- In conjunction with the state training lead, PAWC provides NRW and leak
 detection training for our new and current employees, including hands-on
 equipment training.
- Using NRW crews periodically in a "SWAT"-type approach to sweep larger areas
 of a particular system for leaks.
- Implementation of leak detection specialists to help locate leaks throughout
 PAWC's service territory when needed in the case of an emergency.

1		• Using the Company's MapCall work management system to capture all work done
2		by our crews, including main break repairs so that patterns can be analyzed
3		geographically (this will allow us to identify future main and service replacement
4		projects).
5		• Usage of MapCall for more accurate monthly reporting and monitoring of all NRW
6		use; and documenting all unaccounted-for water loss and authorized consumption
7		in total gallons.
8		• Training meter readers and other field personnel to identify and report possible
9		theft-of-service situations (such as evidence of occupancy or other activity in
10		premises with no registered consumption) and raising public awareness and
11		understanding of the operational and financial consequences of NRW.
12		• Asking local municipalities to develop theft-of-service ordinances and to enlist
13		citizens and law enforcement to help address this problem.
14		• Annual and Semi-Annual testing and calibration of our production delivery meters
15		per AWWA M36 manual standards.
16		• Metering all automatic blow-offs for water quality flushing and new water main
17		installation flushing to help account for all authorized consumption water loss.
18		In addition to these operations activities, PAWC has an aggressive capital
19		expenditure program to reduce the number of small diameter mains, which also helps to
20		reduce water loss from the system. The Company's capital expenditures for main
21		replacement and rehabilitation are described in more detail by Mr. Bruce Aiton (PAWC
22		Statement No. 3).
23	Q.	Please describe the leak detection technology used by the Company to control NRW.
24	А.	Since 2016, PAWC has installed approximately 12,000 leak detection sensors in the
25		distribution system. Approximately half of these sensors were installed since the
26		Company's last base rate case filing. These active acoustic listening devices are cellular -
27		based and can transmit their findings to us daily for analysis. This transmittal eliminates

the need to deploy resources to patrol the areas to collect the data, which allows for more
 timely analysis of the collected data. This technology also allows us to better identify those
 areas that need the most attention, resulting in more efficient deployment of repair crews.
 We will add an additional 2,248 acoustic cellular data loggers in 2022 across PA.

5 Since 2016 these data loggers have helped pinpoint 2,282 non-surfacing leaks that 6 would have otherwise been unknown, allowing for quick repair by field operations staff. 7 Our leak detection specialists use a variety of state-of-the-art equipment in the field to 8 locate and pinpoint leaking mains such as ground listening microphones, leak correlators, 9 and line locating devices.

10

Q. How has the Company improved its fleet management?

11 A. With a fleet of over 1,100 vehicles and other rolling equipment, it is imperative that the 12 Company has a program to manage its fleet. Our capital program typically replaces over 120 vehicles per year. We have two positions dedicated to ensuring our fleet is working 13 14 optimally. These employees work hand-in-hand with our senior operations managers as 15 well as the end-users to optimize both initial cost and lifetime costs for every vehicle in the 16 PAWC fleet. Each year, they conducted fleet summits that included frontline employees 17 and supervisors to collect ideas on how to build a better vehicle specifications program. 18 This results in continuous improvement to better meet the needs of the end user. 19 Additionally, fleet managers serve as the liaison with the American Water Works Service 20 Company fleet team who ensures overall competitive pricing and leveraging of national 21 buying and negotiating power for both new vehicles and repair services. Our fleet 22 personnel are held accountable for reducing expenses, when possible, without negatively 23 affecting our ability to serve our customers and safety.

As part of the capital planning process, we identify vehicles that are nearing the end of their depreciable life for replacement, generally targeting smaller replacement vehicles with better fuel consumption and lower initial and lifecycle costs. The mix of vehicle types varies year to year based on business need, and during the COVID-19 pandemic, based on availability of chassis from major manufacturers. For example, in 2020, more than 60% of vehicles were lighter duty, and in 2021, that number was reduced to 35%. A summary of the Company's recent historical and planned vehicle replacements follows:

Year	Capital Spend	Vehicles Replaced
2020	\$8.9M	144
2021	\$12.3M	146
2022 (plan)	\$11.5M	148
2023 (plan)	\$10.5M	145

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9 In addition, our third-party fleet management company, ARI Inc., provides us with 10 data each month that allows us to look for trends around vehicle repair costs and fuel 11 consumption.

We also have a policy of strategically sharing vehicles across districts in order to balance the needs of the business, especially when a vehicle is near the end of its depreciable life and in need of repair before its permanent replacement is available.

15

Damage Prevention Program

16 Q. Please describe your Underground Damage Prevention Program as it relates to
17 Act 50.

1 A. We have over 200 employees that perform underground locate requests in response to 2 PA811 efforts. In 2020 and 2021 the Company completed 166,000 and 171,000 PA811 3 tickets respectively. Very few of our employees do underground locates as their primary 4 job, and it is imperative to closely track and monitor for performance to keep all parties 5 aligned. We have an Underground Damage Prevention Committee that meets once per 6 month to discuss performance trends, AVRs, technical issues and training programs. The 7 cross functional committee is made up of managers for each operating region, GIS team 8 members, Legal and Business Performance who administers the program.

9

Q. What measures are in place to ensure compliance?

10 The company's performance is very good with over 99.99% of tickets completed on time 11 during 2021 and a steadily decreasing number of tickets that are responded to late of only 12 0.7% in 2021. There are various time frames within which different types of tickets must 13 be completed. Emergency tickets are to be completed as soon as practical and routine 14 tickets must be completed within 3 days. We track both completion of tickets and 15 timeliness, i.e., completed within the applicable statutory time frame for response. Any 16 missed opportunity is discussed with local management which has enabled the organization to continually improve. 17

18

Advanced Metering Infrastructure

19 Q. What is the Company's strategic approach to implementing advanced metering 20 infrastructure ("AMI")?

A. The Company is taking an approach that strategically selects areas for concentrated AMI
 efforts based on local needs and opportunities. As of January 2022, 21% of the Company's
 customers are equipped with AMI technology, with Scranton customers comprising the

1		majority of AMI customers. The Company also adopted cellular AMI technology, and all
2		length of service meter and faulty meter replacements will be upgraded to AMI throughout
3		the Company's service areas. We expect that 31% and 42% of the Company's customers
4		will be equipped with AMI by the end of 2022 and the end of 2023, respectively. However,
5		this progress may be impacted if in-home appointments are hampered by future COVID-
6		related restrictions.
7	Q.	What are some of the benefits of AMI technology?
8	A.	AMI provides a variety of benefits stemming from PAWC's ability to collect consumption
9		and interval data from the meter and transmit it to a computer network at any given time.
10		These benefits include improving safety, operations and customer service.
11	Q.	How does AMI improve safety and operations?
12	A.	With AMI, it is no longer necessary for employees to walk or drive by meter routes in order
13		to gather consumption data. As our AMI deployment continues, AMI has the potential to:
14		• Increase efficiency by reducing time spent reading meters.
15		• Reduce workplace safety hazard exposures associated with meter reading activities for
16		our employees.
17		• Reduce environmental impacts associated with having to make monthly trips to obtain
18		meter readings; and
19		• Align our workforce to move positions from meter reading to other positions to better
20		serve our customers.
21		In addition, PAWC can use AMI data to uncover irregularities that may signal a leak,
22		meter tampering or water theft. With the implementation of a meter data management
23		system, the Company will be able to collect, organize and analyze large quantities of
24		meter data to support its water loss reduction efforts and improved customer billing
25		more efficiently.

Q.

How will AMI improve the overall customer experience?

2 A. The use of AMI increases billing accuracy and reduces the likelihood of estimated bills by 3 automatically providing timely accurate reads through the network. Removal of potential human error also reduces the need to obtain re-reads. In addition, AMI makes it possible 4 5 for customers to view their personal consumption more frequently than monthly, allowing 6 them to monitor their usage for conservation purposes or to identify and address unusually 7 high usage. AMI also includes functionality that eases the turn-on and turn-off processes 8 for customers. For select locations, an AMI meter can have its own valve that can be 9 remotely opened or closed to turn-on and turn-off service in a timely manner without 10 having to send someone out to do it manually. AMI is especially well-suited for detecting 11 leaks on a customer's service line. Utilizing AMI, the Company can monitor continuous 12 usage of accounts and the Company will notify a customer if their meter detects continuous flow for more than 24 hours. This saves the customer money, saves water, and potentially 13 14 eliminates leak adjustments that are often requested by customers with hidden leaks.

Q. Are there other benefits associated with the remote turn-on and turn-off functionality?

A. Yes. Not only does this capability ease customer service requests, but it also eliminates
potential safety hazards associated with opening meter tiles or having to enter a customer's
home. This technology also eliminates challenges associated with shared service lines.
Currently, customers on shared service lines cannot request cessation of their service and
the Company cannot terminate service for any reason without also turning off service to
other customers. PAWC has approximately 20,000 shared service lines in its Scranton
district. Not being able to turn off service to individual customers on such service lines

1		(1) prevents customers from having their service turned off for any reason; (2) prohibits
2		the Company from lawfully terminating service to delinquent customers, potentially
3		leading to large uncollectible amounts; and (3) can result in water waste due to leaks on
4		customer-owned facilities if not timely addressed by the customer. Consequently, a variety
5		of issues can arise for a large subset of the Company's customers in the Scranton district,
6		each of which can be mitigated using the individual valves available on AMI meters.
7		Energy Efficiency
8	Q.	Please describe the importance of electricity to the water and wastewater business.
9	A.	It takes a significant amount of energy to extract, treat, and deliver clean water to our
10		customers and to collect, treat, and dispose of wastewater. ³ A large portion of a typical
11		water utility's total energy consumption is used to pump water. As pumps age, they wear
12		and become less efficient. As a result, more power is required to pump the same volume
13		of water.
14	Q.	Please describe the Company's energy efficiency initiatives and cost controls.
15	A.	PAWC is using various strategies to improve energy efficiency and reduce energy costs
16		that include five principal components: (1) competitive energy procurement; (2) upgrading
17		energy efficiency of treatment and pumping facilities; (3) lighting upgrades; (4) energy-
18		use monitoring and demand response; and (5) obtaining rebates made available under
19		electric utility programs implementing Act 129 of 2008 ("Act 129").
20	Q.	Please describe some of PAWC's energy cost mitigation strategies.

³ The electric and water sectors are closely aligned: the treatment and delivery of water and wastewater services requires a significant amount of energy, while energy extraction and production require a significant amount of water.

1 A. *Competitive Energy Procurement.* PAWC has actively procured electricity supplies 2 across its operations for several years. The Company has used competitive bidding, 3 including reverse auction platforms, to procure electricity supplies in the West Penn Power, 4 Duquesne Light, Met Ed, PECO, Penelec, Penn Power and PPL service territories. The 5 supply contracts that resulted from the bidding process are based on "shaped" fixed pricing for a short-term period, typically two or three years. The aggregate annual electricity 6 7 supply covered by such contracts accounts for over 90% of the Company's annual electricity consumption. By aggressively bidding electricity supply, the Company has 8 9 taken full advantage of the deregulated electricity supply market. The Company 10 recognized in 2015 the historically low prices available in the energy market and negotiated 11 extensions of the supply agreements through the end of 2019 to lock in low energy prices. 12 Similarly, in 2017, the Company again took advantage of low energy prices to secure 13 favorable supply agreements through the end of 2021. These agreements have subsequently been extended or renegotiated through the end of 2023 to take advantage of 14 15 the continued historically low energy prices. The Company will continue competitive 16 procurements in the future to obtain the lowest-cost energy available for the benefit of 17 customers.

18 *Energy Efficiency Upgrades.* In 2011, the Company embarked on a 19 comprehensive program to reduce electricity consumption at its water pumping facilities, 20 which account for over 75% of PAWC's overall energy consumption. The objectives of 21 the program are to reduce energy costs and greenhouse gas emissions that are associated 22 with inefficient power consumption. The Company has performed "water-to-wire" 23 efficiency testing (i.e., the efficiency of a pump and motor together) of its largest pumping

1 facilities to identify opportunities to improve the efficiency of motors and pumps. From 2 2011 through 2017, the Company systematically refurbished and/or replaced pumps or 3 motors at more than 26 of its pumping stations, from which we are continuing to receive 4 benefit. These stations include all the top-20 highest energy-consuming facilities in the 5 Company's operations. The Company continues to monitor these large stations to ensure 6 that pumping efficiencies remain at acceptable levels and, in the event further upgrades are 7 required to maintain or efficiently achieve greater efficiencies, PAWC will plan capital 8 projects, as needed, to implement such upgrades.

9 Lighting Upgrades. Since 2009, the Company has upgraded the lighting and 10 switches at more than 55 treatment plants, pumping stations and office buildings/operations 11 centers. These projects consisted of replacing existing metal halide and T12 fluorescent 12 fixtures with new, high-efficiency T8 fluorescent and/or LED fixtures, installing high-13 efficiency lamps, installing new high-efficiency outdoor LED lighting, and/or installing 14 new switches with occupancy-sensor controls. The projects have payback periods of about 15 two years and provide energy savings and improved lighting for workspaces well into the 16 future.

17 *Energy Use Monitoring and Demand Response*. PAWC uses an American Water 18 enterprise-wide application to monitor its energy accounts across the state. This 19 monitoring tool provides "before and after" benchmarking capabilities to help the 20 Company assess the success of various efficiency initiatives. The Company has also 21 installed real-time electricity meters and dashboards at 19 of its largest pumping facilities. 22 The dashboard provides our operators with real-time visibility of their electricity 23 consumption and wire-to-water efficiency, and also provides our engineers with discrete energy efficiency data on these large units to monitor and plan for future efficiency upgrades.

3 American Water was also an early adopter of smart-grid technology to help 4 integrate the way we operate our treatment plants and pumps with electric grid system 5 conditions. PAWC has installed equipment at three of its largest water pumping stations 6 and one of its largest wastewater treatment plants that allows those facilities to vary electric 7 usage (up or down) based on signals from the local grid operator. PAWC receives revenues 8 from participation in demand response programs at these locations ranging from \$25,000 9 to \$75,000 annually that are used to offset electricity expense, but more importantly, we 10 are taking proactive steps to help ensure the integrity of the electricity grid during peak 11 demand emergencies.

12 Act 129 Rebates. PAWC has been working with its electric utilities since the 2010 13 inception of the programs for energy efficiency and conservation ("EE&C") those utilities 14 instituted to comply with Act 129. When electric utilities were developing their EE&C 15 programs, the Company participated in stakeholder meetings with their service providers 16 to provide input from the water and wastewater industries. As the EE&C programs were 17 introduced by the electric utilities, PAWC reviewed its capital projects for eligibility under 18 the rebate programs and applied for, and received, several rebates. So far, the Company 19 has received over 40 rebates for more than \$1,020,000.

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Q. What are the benefits of PAWC's efforts to improve energy efficiency?

A. The benefits of PAWC's efforts to improve energy efficiency are three-fold. Improved
 energy efficiency (1) provides more efficient, higher quality service; (2) reduces operating
 costs through reduced energy consumption; and (3) reduces carbon and other emissions.

1 Through the comprehensive energy efficiency programs outlined above, the Company has 2 been able to keep its fuel and power expense line flat to declining. In fact, the Company's 3 2021 fuel and power expense was less than the Company's 2010 fuel and power expense, 4 notwithstanding the numerous acquisitions and organic customer growth the Company has 5 experienced over that more than 10-year period.

6

Q. Please describe what the Company has done to control waste disposal expenses.

7 The Company has a long history of exploring and implementing cost-effective beneficial A. 8 uses for its treatment residuals, rather than relying on costly landfill disposal. The 9 Company has been able to implement beneficial use practices at 32 of the Company's 10 35 surface water treatment plants. On a dry weight basis, approximately 95% of the 11 Company's water treatment residuals are beneficially used across the state, at a cost far 12 lower than conventional disposal at a landfill. The Company recently implemented capital improvement projects at the Ellwood City and Norristown water treatment plants and the 13 14 Clarion wastewater treatment plant to improve the residuals dewatering process. This 15 process lowers the overall weight of the product to be transported and disposed of; and 16 thus, the associated costs as well. Since its completion in Norristown in 2016, the new 17 centrifuge dewatering process has reduced annual waste disposal costs by 30%, or approximately \$56,000 per year. A new volute press process at the Clarion wastewater 18 19 treatment plant has improved the percentage solids reduction from an original range of 20 12%-18% to greater than 16%-22%, thus reducing the overall disposal costs. The new 21 centrifuge process in Ellwood City, completed in 2019, has resulted in a disposal cost saving of over 90%. 22

1 **Q**.

Please describe what the Company has done to control purchased water expenses.

2 The Company has implemented changes in two districts to control purchased water A. 3 expenses. These two districts, Connellsville-Uniontown and Glen Alsace have historically 4 had the highest purchased water expenses of all of the Company's districts. In 5 Connellsville-Uniontown, the Company negotiated a long-term purchased water 6 agreement with a new supplier that provides long-term cost savings and certainty on future 7 rate increases. This agreement went into effect in February 2017 and is currently saving 8 over \$30,000 per month over the prior agreement. More recently, we are maximizing all 9 extra capacity from our Brownsville treatment plant by pumping it to Uniontown to reduce 10 the purchased water load. We also increased our leak detection activities in Uniontown to 11 minimize water that we purchased. Finally, we addressed a pressure problem in Uniontown 12 that was the source of water main breaks. The Company is continually investigating 13 potential capital upgrades to be able to shift even more load to the lower-cost provider in 14 the longer term.

15

Employee Levels and Compensation

16 Q. Please discuss how PAWC staffs its business operations.

A. As a public utility, PAWC is required to provide safe, reliable, and adequate water and
wastewater service. PAWC's employees are responsible for assuring the production of
high-quality drinking water, operating and maintaining the Company's production and
treatment facilities and its distribution and collection systems, monitoring water quality,
providing engineering services, and supporting the efficient management of all the
Company's operations.

1 The Company continually strives to find more efficient and cost-effective ways to 2 operate and maintain its business. As part of that effort, we strive to manage our cost 3 structure as efficiently as possible, including employee costs. We recognize our duty to staff our business in a manner consistent with the provision of safe, reliable and affordable 4 5 utility service. This requires a constant evaluation of the right mix of internal and contract 6 labor, straight time versus overtime, training programs, and supplementing or, when prudent, replacing labor with technology. In this vein, we continue to evaluate costs and 7 8 expenses going forward, always looking for the best solution for the unique and changing 9 challenges we face. A substantial portion of PAWC's cost structure is associated with the 10 Company's cost of labor, and as a position becomes vacant in our organization, we look to 11 the value of that position. We review the overall need for that position and consider, among 12 other things, whether it should be transferred to another area, modified, or even eliminated. Cost control and improved business performance are the goals of these efforts. We 13 14 continue to evaluate the new roles that will be created as new regulatory requirements are 15 promulgated, and the appropriate positions that PAWC will need to optimize recent 16 technology and most effectively serve our customers.

17

Q. What is PAWC's forecasted staffing level in this case?

A. We have identified 1,226 in the FPFTY equivalent employees as the appropriate staffing
 level for the Company's water and wastewater operations. The number of employees is
 based upon each department and each functional area's need to provide safe, adequate,
 efficient, and reliable service to the Company's customers. Service needs and related
 resource requirements are consistent with meeting regulatory requirements, tariff

requirements, industry standards, service requests, customer needs, and providing adequate
 support to PAWC's business operations.

3 Q. Please describe PAWC's approach to employee compensation.

A. PAWC aims to offer compensation that is on par with that offered by the companies that
PAWC competes with for employees. Therefore, PAWC targets its total direct
compensation (base and variable compensation) for each role at the Company near the
market median (50th percentile) for that role.

8 Q. Please identify the various employee classifications at PAWC and briefly describe
9 how each group is compensated.

A. There are three classifications of employees: collective bargaining unit ("CBU") hourly
 employees, non-collective bargaining unit ("non-CBU") hourly employees and exempt
 employees.

13 Q. How is variable compensation provided to exempt and non-CBU employees?

- A. Variable compensation is provided to exempt employees through the Company's Annual
 Performance Plan ("APP") and Long-Term Performance Plan ("LTPP"). In 2016, the APP
 was expanded to include non-CBU hourly employees. In 2019, the APP was further
 expanded to include CBU hourly employees, as part of national benefits negotiations that
 took place in 2018.
- 19 Q. Please generally describe the purpose of the APP and the LTPP.

A. The plans are designed to provide compensation for operational and financial performance,
 and to focus plan participants on delivering safe and reliable water and wastewater services.
 Copies of the plans, which are marked as confidential and proprietary, are provided as

2

Filing Requirement III.22 (Volume 6b) of the Company's responses to the Commission's filing requirements.

3 Q. Does the Company's compensation plan benefit customers?

4 Yes. As I mentioned, the plan is designed to provide compensation for performance and A. 5 to focus plan participants on delivering safe, reliable and affordable water and wastewater 6 services. The compensation plan includes components of financial, operational, and 7 individual measures. The operational components measure performance that can most directly influence customer satisfaction, health and safety, environmental performance, and 8 9 operational efficiency. Customers derive a direct benefit from our focus on these key 10 measures in the plan. Further, well-grounded financial measures keep the organization 11 focused on improved performance at all levels of the organization, particularly in 12 increasing efficiency, decreasing waste, and boosting overall productivity. All the aspects 13 of overall performance benefit customers by rewarding superior performance in every 14 function. This superior performance supports our increased O&M efficiency resulting in 15 a workforce that is incented to find smarter, more efficient ways to deliver water and 16 wastewater services.

Finally, a financially healthy utility focused on efficiency and customer satisfaction can attract the capital investments necessary to provide safe and reliable service and to maintain the technological expertise necessary to operate the Company and comply with increasing water quality standards. A financially healthy utility is very much in the interest of PAWC's customers, as it helps ensure PAWC the ability to provide safe and reliable service at the lowest reasonable cost.

Q.

Are there other benefits of variable pay?

A. Yes, there are several. Variable pay provides a means of focusing our employees on the
organization's goals and provides a means of measuring attainment of those goals.
Aligning employees with the Company's goals supports accountability to meet their goals
and develops a healthy and positive corporate culture that in turn creates a highly motivated
and productive workforce. Variable pay that is aligned with the Company's strategic goals,
such as APP and LTPP, imparts that sense of purpose to employees that serves as the base
for providing high quality service to customers.

9

Employee Development

10 Q. Describe the Company's commitment to employee development.

11 PAWC values the growth and development of its employees. In support of this, a training A. 12 goal of 25 hours or more has been set for all employees. The Company increased this goal 13 from 20 hours in 2021 to further incent employee growth. LEARN, American Water's 14 learning management systems provides a one-stop shop for registering for instructor-led 15 courses and participating in e-learning. In addition to the Company's focus on providing 16 employees with relevant training geared towards their primary job responsibilities, there 17 are opportunities for technical, professional, management and leadership development for 18 career advancement opportunities. There are over 200+ eLearning course around business, 19 leadership, and professional development available in LEARN.

All employees have been assigned the following safety courses for 2022: Blood Born Pathogens and Fire Safety and Prevention, which are an annual requirement. In addition, An Employees Right to Know, Slips, Trips and Falls and Stop Work Authority are on a three-year training reoccurrence cycle. We consider these courses core to our training program and additional courses are assigned based on the employee's specific job
tasks. - PAWC has also developed an Operator Training Academy aimed at developing
the skills of our treatment plant operators, which consists of both virtual and live sessions.
While designed for operators, the program is offered to all employees that wish to develop
their understanding of the Production and Treatment processes.

- 6 Q. Does this conclude your testimony?
- 7 A. Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION	:		
	:		
ν.	:	DOCKET NOS. R-2022-3031672	(WATER)
	:	R-2022-3031673	(WASTEWATER)
PENNSYLVANIA-AMERICAN WATER	:		
COMPANY	:		

VERIFICATION

I, **Jim Runzer**, hereby state that the facts set forth in the pre-marked Statement No. 2 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Jim Runzer

Statement No. 3 Aiton

PAWC STATEMENT NO. 3

DIRECT TESTIMONY

OF

BRUCE W. AITON

WITH REGARD TO

PENNSYLVANIA-AMERICAN WATER COMPANY'S PLANT ADDITIONS; RISKS ASSOCIATED WITH WATER QUALITY / QUANTITY AND ENVIRONMENTAL REGULATIONS; LEAD SERVICE LINE REPLACEMENT; STORMWATER FEE FEASIBILITY STUDY; AND MIDDLESEX INTERCONNECTION

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY

DIRECT TESTIMONY OF BRUCE W. AITON

1	Q.	What is your name and business address?
2	A.	My name is Bruce Aiton and my business address is 852 Wesley Drive, Mechanicsburg,
3		Pennsylvania 17055.
4	Q.	By whom are you employed and in what capacity?
5	A.	I am employed by Pennsylvania-American Water Company ("PAWC" or the "Company")
6		as Vice President of Engineering.
7	Q.	Please describe your educational background and business experience.
8	A.	I have a Bachelor of Science degree in Civil Engineering from California State University,
9		Sacramento and have been in the engineering and construction field for approximately
10		forty years. I am a licensed Civil Engineer in the State of California.
11	Q.	Do you belong to any professional or industry associations?
12	A.	Yes, I am a member of America Water Works Association and Water Environmental
12 13	А.	Yes, I am a member of America Water Works Association and Water Environmental Federation.
	А. Q.	
13		Federation.
13 14	Q.	Federation. What are your duties and responsibilities in your current position?
13 14 15	Q.	Federation.What are your duties and responsibilities in your current position?As Vice President of Engineering for PAWC, I am responsible for the administration of
13 14 15 16	Q.	Federation.What are your duties and responsibilities in your current position?As Vice President of Engineering for PAWC, I am responsible for the administration of engineering services, including but not limited to the planning, design and construction of
13 14 15 16 17	Q. A.	 Federation. What are your duties and responsibilities in your current position? As Vice President of Engineering for PAWC, I am responsible for the administration of engineering services, including but not limited to the planning, design and construction of water and wastewater capital investment projects for PAWC's systems and facilities.

equipment that will be placed in service during the future test year ("FTY") ending 1 2 December 31, 2022 and the fully projected future test year ("FPFTY") ending 3 December 31, 2023. Third, I will describe the risks associated with: maintaining safe and 4 adequate water quantity and water quality and complying with applicable drinking water 5 and environmental regulations associated with owning and operating facilities for 6 supplying water and wastewater services to the public; complying with environmental 7 regulations applicable to owning and operating facilities for furnishing wastewater service 8 to the public; and the challenges climate change could create for water and wastewater 9 utilities. Ms. Bulkley, in PAWC Statement No. 13, discusses why investors' perceptions 10 of such risks should be considered in establishing a reasonable rate of return on equity for 11 the Company in this case. Fourth, I will describe PAWC's proposed modifications to its 12 lead service line replacement plan previously approved by the Pennsylvania Public Utility 13 Commission ("Commission"). Fifth, I will explain the Company's efforts to evaluate the 14 feasibility of adopting a stormwater fee for its combined sewer system ("CSS") customers. 15 Finally, I will address certain issues raised by the Commission at Docket Nos. A-2021-16 3025160 and U-2021-3025162 related to the Company's emergency interconnection 17 agreement with the Middlesex Township Municipal Authority ("MTMA"). 18 The Company's Capital Investment Planning Process

19 **Q**. Please explain the Company's capital investment planning and governance process.

20 The Company uses a standardized Capital Program Management ("CPM") process to A. 21 manage its capital investments. PAWC conducts planning studies that assess necessary 22 improvement projects and prioritize those projects within the study area. Further, each

1 facility is evaluated using the Company's High Risk Asset Management ("HRAM") 2 process to identify facilities or individual assets that may pose a high risk to system(s) 3 through either high consequence and/or a high probability of failure. All capital investment 4 programs and projects are then prioritized within an overall strategic planning process, 5 utilizing the HRAM process. In the HRAM process, facilities and critical assets are 6 evaluated against risk and consequence of failure to formulate a five-year Strategic Capital 7 Expenditure Plan ("SCEP"). Following more detailed design engineering, implementation 8 plans are developed for those projects that are contained in the SCEP. The Company's 9 annual capital construction plan is based upon projects and programs contained in the 10 SCEP. On an annual basis, main replacement projects are prioritized on a state-wide basis. 11 Numerous factors are considered when determining funding allocations for infrastructure 12 investment, such as current and future service needs, assessments of the physical condition 13 of existing plant, economic and risk factors, performance characteristics, regulatory 14 compliance, and the potential to coordinate with municipalities and other utilities in joint 15 improvement projects. The CPM governance process provides for formal approvals and 16 consistent controls that optimize the effectiveness of asset investment and ensures that 17 capital investment meets the Company's strategic goals.

18 Q. How does the Company's construction planning process impact its claim for plant 19 additions?

A. The Company's claim for plant additions consists of the projects scheduled for completion
 during the FTY (2022) and the FPFTY (2023). The overwhelming majority of the
 Company's claimed projects will be constructed and completed as planned. However, as

1 the years progress, some projects may be substituted for others initially included in the 2 budget due to unanticipated events requiring an immediate capital addition, such as plant 3 or equipment that has experienced failure and needs to be replaced or delay in permitting 4 of a specific project. In general, the overall cost of plant construction will be consistent 5 with the values filed. If a major investment project were to encounter a delay and could 6 not be completed during the test year, the Company would eliminate that project from its 7 claim for plant additions and may or may not necessarily make a substitution. If the delay 8 did not extend materially beyond the future test year and the project otherwise satisfied the 9 applicable criteria, the Company could consider including the project as a claim for 10 construction work in progress. Often, where one project may lag for a variety of reasons, 11 another may be completed early, thereby offsetting another project's delay such that the 12 overall program remains consistent.

13

Description of Claimed Plant Additions

14 Q. Please describe the Company's claimed plant additions, as shown in Exhibit No. 3-C.

15 The Company has undertaken gross plant additions (including projects funded by customer A. 16 advances and contributions) to be completed by December 31, 2022, that are estimated to 17 total \$474,450,075. The investment for 2022 reflects an increased level of investment as 18 compared to the 2022 projection in the Company's last base rate case due to rising material 19 costs and increased investment in acquired systems. The Company has also undertaken, or will undertake, gross plant additions (including projects funded by customer advances 20 21 and contributions) to be completed by December 31, 2023, that are estimated to total 22 \$653,457,094. Thus, the total gross plant additions for 2022 and 2023 are \$1,127,907,169.

When projected retirements of \$142,527,791 are considered for 2022-2023, the combined net increase in plant additions for those two years is estimated to be \$985,379,378.

3 Q. In general terms, could you explain why the Company is planning to spend over \$1.12 billion on infrastructure investment through the fully projected future test 5 year?

6 A. Pennsylvania's water and wastewater infrastructure requires significant upgrade and repair. 7 In its 2018 Report Card for Pennsylvania's Infrastructure, the American Society of Civil 8 Engineers concluded that the Commonwealth's water and wastewater infrastructure received grades of D and D-, respectively.¹ A funding gap of \$10.2 billion over the next 9 10 decade exists for water systems to make all the necessary repairs and improvements required to avoid "health risks, environmental impacts, and financial losses."² Similarly, 11 12 a funding gap of \$8.4 billion over the next decade exists for wastewater systems in order 13 to properly address combined and sanitary sewer overflows, repair existing systems, 14 upgrade systems to meet current regulatory requirements, and build new required 15 facilities.³ The Company's planned infrastructure investment through the FPFTY and 16 beyond is intended to continue to address these infrastructure concerns in the 17 Commonwealth, as well as to meet several environmental and public health standards 18 described later in my testimony.

¹ Report Card for Pennsylvania's Infrastructure, Pennsylvania State Council of the American Society of Civil Engineers (available at https://infrastructurereportcard.org/wp-content/uploads/2021/07/ASCE-PA-report_2018.pdf).

² Id. at 29.

³ Id. at 125.

Q. What types of projects are included in the Company's total gross plant additions for 2022 and 2023?

3 A. The projects that comprise the Company's claim for plant additions are set forth by 4 applicable property account and PAWC Project Number in the portion of PAWC Exhibit 5 No. 3-C that I am sponsoring, along with the estimated completion date and associated retirement for each project. As shown in Exhibit No. 3-C, the Company's claimed plant 6 7 additions vary between what may be characterized as small, routine projects, such as the 8 installation of individual distribution mains, to substantially larger projects, such as the 9 upgrade and rehabilitation of the Butler Water Treatment Plant ("WTP"), to satisfy new 10 regulations to ensure the removal of cryptosporidium; safety and reliability projects 11 including the installation of emergency power generation equipment and pipeline 12 reinforcements; water storage tank projects; and system acquisition improvements.

13 Q. Does Exhibit No. 3-C also reflect the Company's acquisitions in 2022 and 2023?

A. Yes. Exhibit No. 3-C reflects the asset cost, reserve and depreciated cost by plant account
 and year for the acquired assets for systems which the Company will acquire in 2022 and
 2023, including water acquisition Creekside and wastewater acquisitions Foster, Upper
 Pottsgrove, and York.⁴

18 Q. Are there any particular projects that, because of their size or importance, you would 19 like to discuss further?

⁴ Because York is being recorded on a net basis consistent with the Joint Petition for Settlement at Docket No. A-2021-3024681, the amount shown in Exhibit No. 3-C reflects the net value of the acquired assets.

1	A.	Yes. While there are hundreds of individual plant additions detailed in Exhibit No. 3-C,
2		the larger individual components of the Company's claim for plant additions are described
3		below. Water system projects are presented first by year of anticipated completion,
4		followed by wastewater system projects also by year of planned completion. In the
5		following summary, PAWC will indicate if a project is required by either the Pennsylvania
6		Department of Environmental Protection ("DEP") or the United States Environmental
7		Protection Agency ("EPA").
8		<u>2022 Projects</u>
9		1. McClane Farm Road (I24-210033)
10		This project is in the Company's McMurray system in Washington County. The project
10 11		This project is in the Company's McMurray system in Washington County. The project will replace approximately 4,877 linear feet ("LF") of old 8" cast iron main along McClane
11		will replace approximately 4,877 linear feet ("LF") of old 8" cast iron main along McClane
11 12		will replace approximately 4,877 linear feet ("LF") of old 8" cast iron main along McClane Farm Road. The main serves Mapleview Service gradient and is also a supplemental feed
11 12 13		will replace approximately 4,877 linear feet ("LF") of old 8" cast iron main along McClane Farm Road. The main serves Mapleview Service gradient and is also a supplemental feed to the Paxton Farm Road booster station. The total estimated cost of the project is
11 12 13 14		will replace approximately 4,877 linear feet ("LF") of old 8" cast iron main along McClane Farm Road. The main serves Mapleview Service gradient and is also a supplemental feed to the Paxton Farm Road booster station. The total estimated cost of the project is \$2,536,680.

At pH 8.3 and temperature 0.5 °C, the plant is only capable of achieving a 0.29 log removal 18 19 inactivation in the existing clearwell and pre-chlorination has led to elevated settled turbidity. The project is to construct a second clearwell and new high service pumping 20 station that will achieve the required contact time and thereby achieve the inactivation of 21

potentially harmful bacteria. The new clearwell will also enable the original clearwell to
 be taken out of service for cleaning and structural evaluation. The project will also include
 the replacement of the existing backwash water pumps and a new generator. The total
 estimated project cost is \$7,488,182.

5

3. White Deer Creek Contact Clearwell Tank (I24-710021)

6 The White Deer WTP has a single 0.5 million gallon ("MG") contact tank that is used for 7 disinfection of source water prior to that water entering the distribution system. However, 8 since there is only one contact tank, it cannot be taken out of service for maintenance or 9 repairs. The project will install a second tank to provide operational flexibility and allow 10 for the existing tank to be taken out of service for maintenance and rehabilitation. The total 11 estimated cost of the project is \$1,502,941.

12 4. Becks Run Raw Water Pumping Station (I24-110061)

The project will upgrade the HVAC facilities at the Hays Mine Becks Run raw water pumping station to keep up with the additional heat load of variable frequency drive units ("VFD"). The new system will include a roof-mounted air handling unit and four-fan coil units mounted in the VFD room. This improvement will provide full system redundancy and operational efficiencies. The total estimated cost of the project is \$1,330,000.

18

5. Aldrich WTP Additional Wastewater Clarifier (I24-110046)

Currently, the Aldrich WTP has one wastewater clarifier, which does not have sufficient
 capacity to meet the plant's needs under all operating conditions. For example, during

8

storm events, the storm runoff causes high turbidity in the source water and creates a high 1 2 solids loading in the river supply and causes high backwash conditions in the purification 3 units. This high solids loading may overload the existing wastewater clarifier. In addition, 4 when the existing clarifier is removed from service for maintenance, process wastewater is 5 discharged directly to the lagoons that discharge to the Monongahela River. To address 6 these conditions, a second wastewater clarifier will be constructed to provide adequate 7 capacity for current operations and to accommodate the increased wastewater flow 8 generated from the filter-to-waste improvements. The total estimated cost of the project is 9 \$12,740,000.

10

11

6.

Hays Mine WTP Superpulsator Motor Control Center ("MCC") and Transformers (I24-110057)

The Hays Mine WTP is in the Pittsburgh system. The project is to replace obsolete electric equipment that poses a risk to safety and reliability. Specifically, the project includes replacement of the existing MCC, three transformers, panels, and conduit, as well as removal of existing HVAC equipment. The total estimated cost of the project is \$1,248,781.

17

7. Watres/Mill Creek Main Replacement (I24-910046)

18 The Watres Water Treatment Plant supplies potable water to several municipalities in 19 Luzerne County in the Wilkes-Barre Area service territory. One of the finished water 20 mains that conveys water from the plant to the service area is a 16" cast iron ("CI") pipe 21 installed in approximately 1895. The main follows the alignment of Mill Creek from the

9

1 intersection of Jumper Road and Westminster Road for approximately 7,900 feet until it is 2 behind the Mill Creek development and near where it crosses Route 81. This 7,900-foot 3 section of pipe, which is located adjacent to Mill Creek, is extremely difficult to 4 access. From a maintenance standpoint, it is not feasible to make repairs in this area. The goal of this project is to replace the section of 16" CI pipe adjacent to Mill Creek with a 5 6 20" ductile iron ("DI") cement lined pipe located where the new DI pipe can be reasonably 7 maintained. The future 20" main is proposed to be aligned in the 50' right-of-way of 8 Jumper Road until it reaches the Mill Creek development. The line will then be in the 9 right-of-way on Mill Creek Road, and then Briar Creek Road, until reaching its "tie-in" 10 location to the existing 16" water main (near Route 81). The approximate distance of new 11 main is 10,200 feet. The total estimated cost for the project is \$3,398,396.

12

8. San Souci Parkway (I24-910061)

The Sans Souci Parkway distribution main serves approximately 12,000 customers in the Hanover and Nanticoke area in Luzerne County. The existing main is made of early 1900s vintage CI pipe that has a history of leaks and breaks. The scope of the project is to replace approximately 10,500 feet of CI pipe (dual run) with approximately 6,030 feet of new DI pipe and approximately forty service renewals along the Sans Souci Parkway ahead of a Pennsylvania Department of Transportation road reconstruction project on the Sans Souci Parkway scheduled in 2023/2024. The total estimated cost of the project is \$2,782,676.

9. Saw Creek Treatment Buildings (I24-680022)

2 The project will replace the existing treatment buildings for Wells 4, 5, 9, and 10A in the 3 Saw Creek system. These structures were installed over 40 years ago, have reached the 4 end of their useful lives, are in poor condition, have reliability and safety concerns, and are 5 undersized. The treatment facility for Wells 4 and 5 will be relocated from the Well 5 site 6 to the Well 4 site, which is larger and more easily accessible. The treatment facility for 7 Wells 9 and 10A will remain at the Well 10A site on Decker Road at the Company's operations center in Saw Creek Estates. The total estimated cost of this project is 8 9 \$1,374,844.

10

10. Lake Scranton Filter Rehabilitation (I24-91XX31)

This project is required by DEP. The Scranton Area WTP provides potable water to approximately 50,000 customers in and around the City of Scranton. The project will replace the filter media installed over 30 years ago that have reached the end of their useful lives. Other improvements include replacement of valve actuators, level controllers, and headless and flow cells. This project expected to improve filter run-times and rinse times, which leads to a significant increase in overall treatment efficiency and operational cost savings. The total estimated cost of the project is \$1,800,000.

18

11. Exeter Wastewater Treatment Plant ("WWTP") Improvements (I24-130001)

19The project is required by DEP. The project includes the installation of an above ground20electrical room to relocate all electric (MCC, supervisory control and data acquisition21("SCADA") systems, electrical panels) for those return activated sludge ("RAS") pumping

stations. The Company will also replace all mechanical and HVAC equipment located in the RAS pumping stations. The estimated cost for this project is \$2,271,982.

3

12. Pocono Additional Source Development (I24-570007)

The project will provide additional sources of supply in the Pocono district to provide increased system reliability. The plans to develop and upgrade Wells 2 and 4 to increase supply by an additional 217 gallons per minute ("GPM") of capacity into the Pocono Main Gradient. The project also includes new raw water piping from Well 2 to a new treatment facility at the Well 4 site, and new finished water piping to connect those wells to the Pocono System Main Gradient. The total estimated cost of this project is \$2,346,000.

10

13. Scranton WWTP Solids Handling Improvements (I24-920028)

11 The Scranton WWTP currently utilizes belt presses to lower the water content in the waste 12 sludge prior to disposal at a landfill. This technology can only achieve approximately 14% 13 solids resulting in higher handling and disposal costs. The project will replace the existing 14 aged belt presses with a dual centrifuge system to achieve greater than 20% solids. The 15 project also includes improvements to the overall sludge handling process with upgrades 16 to the sludge conveyors, the existing sludge holding tank, the polymer feed system, and 17 improvements to the dewatering building. The total estimated cost of this project is 18 \$6,772,000.

14. Scranton WWTP Disinfection Improvements (I24-920030)

The Scranton WWTP currently utilizes gaseous chlorine for disinfection and sulfur dioxide for dechlorination, which are both toxic gasses. For safety reasons and for more effective treatment during high wet weather flow, the plant will be removing its gas chlorine disinfection system and converting to a UV and sodium hypochlorite disinfection system. The total estimated cost of this project is \$6,875,120.

7

15. Butler WTP Compliance and Electrical Improvements (I24-330011)

8 The project is a DEP requirement to comply with the Long Term 2 Enhanced Surface Water 9 Treatment Rule ("LT2"). The project will consist of improvements necessary to maintain 10 compliance with new regulations related to cryptosporidium risk. The Butler WTP is 11 planning to utilize filter performance credits to meet the 1-log additional inactivation 12 required by LT2. To achieve this level of treatment, improvements are required at the 13 WTP. The necessary improvements include the addition of filter-to-waste improvements, 14 including a second wastewater holding tank and post-caustic chemical feed. Additionally, 15 the Company will update and move the primary MCCs at the plant from a lower level in 16 the plant to ground level and adding emergency power generation to improve safety and 17 reliability. The total estimated cost of the project is \$12,981,484.

18

16. Pitt-McKeesport Boulevard Main Replacement (I24-110065)

19The project is in the Pittsburgh system in Allegheny County. The project will replace20approximately 3,600 LF of CI main installed around 1909 along Pitt-McKeesport

13

Boulevard to provide more reliable water service. The existing water main serves approximately 200 customers directly within the 3,600 LF project area and conveys water to over 1,000 customers and has been subject to multiple breaks leading to lengthy water service interruptions to the major businesses and residents. The total estimated cost of the project is \$2,289,996.

6

17. McKeesport East Shore Force Main Replacement (I24-120013)

7 The East Shore Force CI main along Walnut Street in McKeesport was installed in 1960, 8 has reached the end of its useful life, resulting in unauthorized sanitary sewer discharges. 9 The main has been repaired multiple times prior to PAWC acquiring the McKeesport 10 wastewater system in 2017 and twice since acquisition. The project will replace 11 approximately 1500 LF of the McKeesport East Shore Force main with DI piping and 12 PAWC will rehabilitate the remaining 4000 LF of the existing main with a cure-in-place 13 liner designed for pressure applications. The total estimated cost of the project is 14 \$4,603,386.

15

18. West Milton Booster Pump Station ("BPS") (I24-710010)

16 This project will replace the West Milton BPS to improve reliable supply for existing 17 customers and help meet projected demand increases. The West Milton BPS supplies 18 customers in the Milton distribution system, including major customers such as Bucknell 19 University. The existing BPS has reached the end of its useful life. One pump is 20 operational with no backup pump or backup power supply. Additionally, the existing 21 pump station building is in the 100-year floodplain. A new pump station is proposed on a parcel located outside of the floodplain. A new discharge pipeline will connect the
 replacement BPS to the existing distribution system. The total estimated project cost is
 \$2,783,341.

4

19.

Turbotville WWTP Replacement (I24-890001)

5 The Turbotville wastewater system has an existing WWTP that is in poor condition and 6 has reached the end of its useful life. To maintain regulatory compliance, the Company is 7 constructing a new extended aeration activated sludge WWTP. The total estimated project 8 cost is \$8,696,020.

9 20. Mecklem BPS Replacement (I24-310013)

10 The Mecklem BPS is in the New Castle system. The pump station needs to be replaced 11 due to a combination of age and condition of the existing pump station and increased 12 customer count in Jackson Township. The existing pump station has a rated capacity of 13 4.1 MGD. The new pump station will have a capacity of 4.83 MGD. The total estimated 14 cost of the project is \$3,670,279.

15

21. Jackson Township Gradient Improvements (I24-310020)

16 The project is to design and construct a 650,000-gallon elevated tank, a pump station, and 17 1,200 LF of 12-inch and 16-inch main and add a 1,500 GPM BPS to create a new pressure 18 gradient in Jackson Township, Butler County. This area of the system has experienced 19 high growth, which has also resulted in pressure issues in the area. The project will address the pressure issues and ensure adequate supply to the area of growth. The estimated cost
 of the project is \$6,150,000.

3

22. Rock Run WTP Improvements (I24-650016)

The project is a DEP requirement. The project includes installing a UV system to comply with LT2 in addition to other improvements including the change out of the filter media to Granular Activated Carbon (GAC), providing chlorine dioxide for pretreatment, and other improvements to HVAC, filter aid, chemical tube clogging and corrosion prevention. The estimated cost of the project is \$7,533,728.

9 23. Outfall #68 South Sixth Avenue (I24-920031)

The Scranton CSS is required to maintain compliance with the Scranton Wastewater Long-Term Control Plan ("LTCP") as required by EPA. One of the main components of the LTCP is the construction of upstream storage and flow management structures to alleviate the uncontrolled outflow of the combined wastewater into the Lackawanna River during wet weather conditions. This project includes the installation of a 20,000-gallon off-line storage facility at Outfall #68 to reduce typical year combined sewer overflow ("CSO") events at this location from 23 to 6. The total estimated cost of the project is \$1,800,000.

17

24. Pocono Farms Well 7 Tank & BPS Improvements (I24-570008)

18This project includes the replacement of the 200,000-gallon storage tank at Pocono Farms19Well #7 as it is in poor condition and has limited usable storage. A new 200,000-gallon20steel storage tank and other site improvements, including a new chlorine contact main,

1

standby generator, and booster pumps to improve storage capacity and reliability will be installed. The total estimated cost of this project is \$1,200,000.

3 25. Kane Transmission Mains (I24-460008)

This project will include replacement of two aged transmission mains. The Kane system has two primary transmission mains from the WTP – one that feeds the system near Main Street and another near the storage tank to the north part of town. Both transmission mains are aged cast iron and were installed in 1908. The project will replace these two (2) 10-inch transmission mains. The overall estimated cost of the project is \$2,150,000.

9

26. Punxsutawney South Main Elevated Tank (I24-420007)

10 The South Main gradient within the Punxsutawney system does not have any storage and 11 has a storage deficit of approximately 0.4 MG. The South Main gradient accounts for 12 approximately 15% of the total Punxsutawney system water sales and includes mostly 13 commercial and industrial customers. The construction of a 0.5 MG elevated tank in the 14 South Main gradient is recommended. The overall estimated cost of the project is 15 \$4,000,000.

16

27. Paint Township Waterline (I24-430002)

17 The Paint Township Waterline Loop system was installed in 2011 and consists of 18 approximately five miles of mostly 12" DI main. The system was acquired by PAWC in 19 2015. PAWC has had to maintain a vigorous flushing program since acquisition to 20 maintain sufficient water quality within the Paint Township system. Testing has indicated

1 that nitrification and water age are contributing factors to the water quality issues. The 2 project will include the installation of approximately 7,150 LF of 12" DI main to be 3 installed from the end of the Paint Township water system, along SR 66, to the intersection 4 of SR 322. The project will loop the dead-end system back into the main Clarion gradient. 5 The project will also include cleaning the inside of the existing mains and installation of 6 automated blow-offs at the remaining dead-end areas of the system. A control valve station 7 will also be installed to direct more flow through the Paint Township system to help reduce 8 water age. The total estimated cost of the project is approximately \$3,100,000.

9

28. Paint-Elk WWTP Disinfection and Plant Lift Station (I24-380004)

10 The Paint Elk WWTP located in Shippenville currently utilizes gaseous chlorine for 11 disinfection. The Company is focused on eliminating chlorine gas facilities and plans to 12 install a new liquid sodium hypochlorite system at the Paint Elk WWTP for disinfection. 13 The second aspect of the project will involve replacement of lift station that has reached 14 the end of its useful life with a more efficient pumping system. The overall estimated cost 15 of the project is \$1,400,000.

16

29. Berkshire Ave Main Replacement (I24-110064)

17 The project is in the Pittsburgh system in Allegheny County. The project will replace 18 approximately 3,700 LF 6" CI pipe along Berkshire Avenue with 8" DI pipe to reduce the 19 number of main breaks, improve system reliability and customer service. PAWC expects 20 to replace customer-owned lead service lines ("LSLs") as part of this project in accordance 21 with the Company's LSL Replacement Plan ("Replacement Plan") approved by the

- Commission at Docket No. P-2017-2606100. The total estimated project cost is
 approximately \$1,850,000.
- 3

30.

4

Findley Township Municipal Authority ("FTMA") Improvements (I24-210030)

5 The FTMA Improvement project will address pressure and flow constraints within the 6 McMurray District and provide an interconnection with FTMA. The project consists of 7 replacing the existing 12" main on SR 980 with a 24" main, constructing a new 8 transmission main in McDonald, upgrading to the SR 980 BPS, completing a new main 9 extension on Ridge Road, and constructing a new chemical feed station. The total 10 estimated project cost is \$9,700,000.

11

31. Hiller Reservoir Liner and Cover Replacement (I24-250007)

The cover and liner on the Hiller Reservoir in the Company's Butler system needs to be replaced due to normal wear and tear. The project includes the installation of a new ground storage tank to maintain the system while the reservoir is out of service and to also provide future contingency in the case of emergency. Concrete repairs to the reservoir are also anticipated once the liner is removed. The total estimated project cost is approximately \$1,350,000.

32. Control Valves Old Washington (I24-110039)

The project will install three additional control valves between the Pittsburgh and McMurray service areas to improve system control operations. The Rock Ridge storage tanks drain quickly during large main breaks and have difficulty refilling due to water circumventing the high points in the system where the tanks are located. The estimated total cost of the project is approximately \$1,200,000.

7

2023 Projects

8 **1.** Connellsville Pressure Improvement (I24-230013)

9 This project will expand the current Snyder Street Gradient to serve the Frisbee Circle area 10 as well as the Breakiron Gradient, which includes a series of system improvements and 11 changes including adding open/close valves at multiple locations; installing a check valve; 12 installing new main to connect the existing mains; and replacing the existing pumps at the 13 new Snyder Street BPS with larger pumps. The total estimated project cost is \$2,110,000.

14

2. Hays Mine Solids Handling Equipment Replacement (I24-110012)

The Hays Mine WTP, located in the Pittsburgh District, will require replacement of the existing belt filter presses. The parts needed for this maintenance project have significant cost because the units are over thirty years old. Currently, parts have been taken from the fourth unit to maintain the remaining three units. The total estimated project cost is \$8,952,452.

3. McMurray System Flow Monitoring (I24-210011)

This project will aid in the analysis and reduction of non-revenue water by creating additional defined metering zones. The project consists of constructing four (4) metering stations on Venetia Road, Washington Pike, Sugar Camp, and Boyce Road. The total estimated project cost is \$1,297,727.

6

4. Evans Street CSO Relocation (I24-120016)

Rising water levels in the Monongahela River require the relocation of the CSO outlet in
order to avoid increased siltation in the overflow pipes and retain accessibility for
maintenance and inspection. The total estimated project cost is \$4,145,901.

10 **5.** Stee

Steelton Water Treatment Plant Filter Improvements (I24-140001)

11 As a new acquisition, an assessment was done on the Steelton WTP. A number of 12 deficiencies were identified to address safety and regulatory treatment requirements. These 13 deficiencies will be addressed through Filter Improvements (replacing filter media and 14 rehabilitating filter underdrain systems), Chemical System Improvements (installing 15 secondary containment, level monitoring and addressing safety and reliability issues), 16 Corrosion Control (addition of an Orthophosphate System), and Filter Backwash 17 Improvements (modifications to reduce the amount of backwash water sent to the sewer 18 system). The total estimated project cost is \$3,100,000.

6. Hays Mine Filter Renovations Phase I (I24-110034)

2 The existing filters at the Hays Mine WTP range in age from 70 to 115 years old. Limited 3 accessibility in the pipe gallery causes safety and operational challenges, for this reason 4 renovations to the system are necessary. The Phase 1 Filter Renovations involve 5 rehabilitating and upgrading Filters 15 to 30, including increasing filter capacity, adding 6 air scour, replacing the hydraulically operated valves with motor operated valves, adding 7 a second feed to the backwash tank, improving the filter backwash waste handling, 8 installing new SCADA equipment for all filters, and adding dehumidification in the pipe 9 gallery. The total estimated cost of the project is \$10,850,000.

10

7. Lake Scr. 48" Transmission Main/Tunnel Rehab (I24-910048)

11 The Scranton Area WTP provides potable water to approximately 50,000 homes in and 12 around the City of Scranton. The original 48" cast iron transmission main was installed in 13 1909 and was then supplemented in 2018 with the installation of a 42" transmission main 14 to reliably supply the Scranton area with finished water. Recently, the 48" cast iron main 15 experienced a significant leak within the tunnel. Efforts to safely locate the leak on the 48" 16 main have been exhausted and the line has been taken out of service. Currently, the sole 17 method of conveying finished water from the WTP to our customers is via the 42" main. 18 This project will include rehabilitation and replacement of the existing 48" pipe within the 19 tunnel. The estimated cost of the project is \$5,000,000.

8. Sugar Notch Pump Station Improvements (I24-91XX30)

2 The Sugar Notch Pump Station includes two sets of pumps that convey finished water to 3 maintain pressure and tank levels in the Sugar Notch, Georgetown and Flat Road zones of 4 the southern Wilkes-Barre Area system. The pump station building is antiquated and has 5 several structural issues, the station pipe and valving is severely corroded, the existing 6 pumps are in need of upgrade and the station requires manual operation on a regular basis 7 to react to issues within pressure zones. Due to the critical nature of the system and lack 8 of available space within the existing station, this project will include the construction of a 9 new pump station building consisting of adequately sized pumps, properly configured 10 valves, associated pipe work and SCADA integration. The estimated cost of the project is \$1,500,000. 11

12

9. Scranton WW Emergency Generator (I24-91XX07)

The Scranton WWTP has a dual electrical feed into the plant; however, both are provided by the same substation, and the plant does not otherwise have comprehensive emergency backup power. In the event of an extended power outage, the plant's main systems would not be able to operate. The project scope includes the installation of a new standby emergency generator system that will provide adequate electrical generation to all critical treatment equipment. The total estimated cost of the project is \$2,000,000.

10. Mid-Monroe Well Development (I24-680024)

2 The project will develop a new groundwater source for the Mid-Monroe Water System in 3 the Lehman-Pike District. The system is currently supplied by four bedrock wells that have 4 recurring problems with reduced yield due to fouling caused by naturally occurring iron 5 and manganese build up and rehabilitation efforts have experienced decreasing levels of 6 effectiveness. The current system does not have adequate capacity and is unable to meet 7 maximum day demands in the system with the existing total production capacity. 8 Distribution storage is currently used to meet maximum day demands. The project will 9 provide an additional groundwater source to augment existing supplies and enhance system 10 resiliency. The project's total estimated cost is \$1,100,000.

11

11. Montrose WTP Phase II Upgrades (I24-540011)

12 The project at the Montrose Water Treatment Plant includes rehabilitation to the two steel 13 filter vessels. The rehabilitation will include the replacement of the filter underdrains, 14 installation of an air scour system, reconfiguration of the pipe gallery, improvements to the 15 HVAC system in the operator and lab areas and connecting the plant to the public sewer 16 system. The total project cost is estimated at \$2,250,000.

17 **12.** Exeter W

Exeter WWTP Final Clarifier (I24-13XX09)

18 The project is to rectify conditions in a new acquisition. The project includes the removal 19 and installation of new clarifier scrapper, sludge removal, baffles and drive assemblies for 20 the four existing clarifiers. New clarifier mechanisms are necessary because the mechanisms in the existing clarifiers are corroded and do not work reliably. The estimated
 project cost is \$2,000,000.

3

13. Scranton Area WTP Generator Upgrades (I24-910079)

The project will provide backup emergency generators to seven surface water treatment plants located in the Scranton/Wilkes-Barre Service Territory, including Ceasetown, Nesbitt, Crystal Lake, Watres, Brownell, Fallbrook and Forest City. The existing generators at these plants are undersized and unable to support full plant operation during power outages, including backwashes and water recycle. The estimated cost of this project is \$6,500,000.

10

14. Fallbrook Waste Handling Improvements (I24-910007)

The purpose of this project is to improve the waste handling ability at the Fallbrook Water Treatment Plant. The existing lagoons that handle backwash water from the filters and waste from the dewatering of the tube settlers are currently undersized. Carryover from the lagoons enters Fallbrook Reservoir because the lagoons are undersized, which results in the need to periodically dredge the back end of the reservoir. The scope of the project is to increase the size of the lagoons and install new settling equipment. The total estimated project cost is \$1,140,000.

18

15.

Outfalls #004, 031, & 032 - Wells Street & Leggetts Creek (I24-920037)

The project is being designed and constructed as part of the Scranton Long Term Control
Plan in the Scranton Wastewater system as required by EPA. The project will provide

84,000 gallons of off-line storage during wet weather events near Wells Street and Leggetts
 Creek. The project will reduce the total number of overflow events from each outfall and
 the total volume discharged to the waterways to meet regulatory compliance. The total
 estimated cost of the project is \$3,500,000.

5

16. New Castle WTP Improvements – LT2 (I24-310018)

6 The project is required by DEP. The project includes installing UV light disinfection to 7 comply with the LT2 and the addition of a fifth filter. The addition of a filter is necessary 8 to achieve reliable capacity when one filter is out of service. This project will also include 9 major electrical improvements such as the replacement of the medium voltage service 10 entrance and switchgear and a medium voltage emergency generator. The total estimated 11 cost of the project is \$13,800,000.

12 17. Punxsutawney West End Reservoir Site – Tanks (I24-420008-01, 02)

The project will consist of the construction of two new ground storage tanks at the site of the existing West End Reservoir. The first tank will be constructed adjacent to the existing tank. The existing tank will then be demolished. The second tank will be constructed within the footprint of the existing tank. The estimated total cost of the project is \$4,900,000 with approximately \$3,000,000 allocated for tank one and \$1,900,000 allocated for tank two.

Kinzua Road WWTP Improvements – Sequencing Batch Reactor ("SBR") Improvements (I24-190001-03)

The Kinzua Road WWTP in the Kane WW district needs several improvements that were outlined in the Corrective Action Plan implemented in accordance with a Consent Order and Agreement issued September 30, 2020, with the DEP. The project includes SBR upgrades including aeration, electrical and SCADA improvements. The overall estimated cost of the project is \$2,500,000.

8

19.

Duquesne Hydraulic Improvements (I24-120011)

9 The project includes the design and permitting of the improvements needed in the 10 Duquesne WW system. Collection system issues to be addressed as part of these 11 improvements include undersized mains, stormwater connections, and flow restrictions 12 due to alignment issues. The Company's plan is to decrease stormwater flow, increase 13 main size and redesign the areas with flow restrictions. The total estimated cost of the 14 project is \$1,235,200.

15

20. McKeesport White Street Interceptor Upgrades (I24-120020)

16 The White Street Interceptor is undersized, resulting in backups and uncontrolled 17 discharges. The project will consist of analyzing the interceptor's hydraulics to determine 18 the proper pipe sizing and implement an upgrade to the pipe collection system. The total 19 estimated cost of the project is \$1,050,000.

21. Frackville Center Street WTP Upgrade (I24-740001)

2 This project is required under new DEP regulations. The project will upgrade the 3 Frackville Center Street WTP with treatment systems to remove compounds known as per-4 and polyfluoroalkyl substances ("PFAS") iron, and manganese and to convert from 5 chlorine gas to sodium hypochlorite disinfection. Two of the four wells supplying the 6 Center Street WTP have been taken out of service due to PFAS concerns. A pilot study 7 was completed to select the appropriate PFAS treatment technology. A new treatment 8 building will be installed to house pressure filters for iron and manganese removal and 9 granular activated carbon contactors for PFAS removal. The new treatment building will 10 include a sodium hypochlorite chemical room, electrical room, transfer pumps and 11 backwash supply pumps. Backwash supply and wastewater equalization tanks are included 12 in the project. The total estimated project cost is \$10,024,352.

13

22. White Deer WTP Solids Handling (I71-0008)

The project will upgrade the solids handling facilities at the Milton White Deer WTP. The current clarifier and sludge drying beds have design limitations that prevent their operation as hybrid lagoons and drying beds. The proposed improvements will modify the existing sludge drying beds and wastewater clarifier; add a new filter-to-waste tank, chemical feed system, and lagoon effluent pump station; combine outfalls; and modify yard piping. The total estimated project cost is \$3,380,169.

23. Emigh Run System Improvements (I24-720003)

The project focuses on improving supply reliability of the Philipsburg distribution system. The existing Emigh Run BPS supplies a large area which includes twenty-one pressure gradients. Currently, the Emigh Run BPS is supplied by a single 12-inch line located in corrosive soils. The proposed improvements include installing approximately 10,500 feet of new 12-inch line and installing two BPS to create an alternate supply from the Windy Hill Gradient to the Spring Valley Gradient. The total estimated project cost is \$3,197,971.

8

24. Berwick Salem BPS Replacement (I24-730002)

9 The project will replace the Berwick Salem BPS to improve reliable supply for existing 10 customers and help improve fire flow. The existing Salem BPS is in poor condition and is 11 located within the 100-year floodplain as well as in an underground vault that requires 12 entry into a confined space for servicing pumps. The existing Salem BPS is a single pump 13 that provides no redundancy and there is no fire pump. The proposed project will install a 14 replacement pump station in a new location outside the floodplain. A 2,200-foot main 15 extension is required to connect the proposed pumping station to the distribution system. 16 The total estimated project cost is \$1,629,956.

17

25.

West Chester BPS (I24-650010)

The project involves the installation of a new above ground water BPS to increase capacity
to serve the East Fallowfield zone including fire flow events. The project will also include

the replacement of an aging below grade station that is near the end of its useful life. The estimated cost of the project is \$2,000,000.

3 26. Coatesville WWTP - Digestor Addition (I 24-670009)

The existing aerobic digesters at the Coatesville WWTP are nearing rated capacity. The project includes the design, permitting and construction of a third aerobic digester. The proposed digester will have enhanced aeration capabilities, screening, covers, and odor control. The estimated cost of the project is \$10,816,537.

8 27. Lake Scranton 2.5 MG Tank (I24-910082)

9 The Scranton Area WTP utilizes two 2.5 MG storage tanks for chlorine contact time and 10 system storage. However, with an average daily demand of nearly 20 MGD, the current 11 storage could be emptied in six hours, which creates compliance risk. A third 2.5 MG 12 storage tank will be installed to improve customer service reliability and maintain the 13 required adequate chlorine contact under all conditions. The total estimated project cost is 14 \$3,250,000.

15

28. Ceasetown Rt 29 - 18-inch Main (I24-910074)

16 The existing 18" suspended stream crossing and pressure reducing valve ("PRV") station 17 along SR 29 are past their useful life and are at risk of failure. In addition, the Company 18 has identified additional concerns arising from a potential break along this 18" main which 19 would be difficult to access and repair due to its location along the streambed and could 20 result in service interruptions to the Shickshinny/Mocanaqua service area in Luzerne 1 County. This project includes the replacement and relocation of the 18" main along SR 29 2 to a more accessible location, removal of the existing stream crossing, and replacement of 3 the existing PRV station to eliminate the risk of failure and improve ease of maintenance 4 and operation. The total estimated project cost is \$3,800,000.

5

29. Kane Water Treatment Plant Improvement Project (I24-460006)

6 The Kane WTP utilizes three pressure filters to remove iron and manganese. The project 7 will include the rehabilitation of the three existing pressure filters, consisting of painting 8 the interior and exterior of the filters, replacing the underdrain piping, adding air scour, and 9 replacing the media. The Company will also make piping, valve and instrumentation 10 improvements. Other improvements to the Kane WTP will include the addition of 11 automated valving and instrumentation for Spring No. 5 and caustic feed improvements, 12 including new pipe, day tank and feed pumps. Conversion of gas chlorine to sodium 13 hypochlorite is also included in the scope of the project. The overall estimated cost of the 14 project is \$1,600,000.

15 30. Two Lick Creek WTP Electrical Improvements and New Backwash Tank 16 (I24-410007)

17 The Two Lick Creek WTP needs electrical, pump and tank improvements. The project 18 will include electric upgrades where aged switch gear will be replaced and change from 19 2400-volt switch gear to 480-volt switch gear. Two high service pumps will also be 20 replaced as part of the improvements. Additionally, the project includes the construction 21 of a second filter backwash tank to expand filter backwash capacity and enable one tank to

31

be taken out of service for maintenance and painting. The added redundancy and upgraded
 electrical system will also enhance plant reliability. The overall estimated cost of the
 project is \$5,584,000.

4

31. Warren WTP Improvement Project (I24-45XX01)

5 The Warren WTP serves the community of Warren and parts of the surrounding townships. 6 The plant was constructed over one hundred years ago and needs improvement to increase 7 operational efficiency. To replace the current gaseous chlorine system for disinfection, a 8 new liquid sodium hypochlorite system will be installed at the plant. In addition, the plant's 9 current MCC has reached its useful life and needs replacement. Other improvements 10 include the installation of more efficient hydro-solids pumps with VFDs and above ground 11 chemical injection plumbing. The overall estimated cost of the project is \$1,500,000.

12

32. Clarion WWTP - Toxic Gas and Alkalinity Feed (I24-470008)

13 The Clarion WWTP located in Clarion PA utilizes chlorine gas for disinfection. The first 14 aspect of the project is to construct a new UV disinfection system and demolish the existing 15 chlorine system. The second aspect of the project includes the construction of a post 16 aeration facility in the form of cascade aeration. The WWTP has an effluent dissolved 17 oxygen ("DO") limit that has been difficult to achieve in the summer months. To meet the 18 limit, the DO within the process is kept higher than desired. The addition of cascade 19 aeration will eliminate this operational challenge. The overall estimated cost of the project 20 is \$3,350,000.

33. Scranton WWTP Building Improvements – Phase I (I24-920024)

The scope of this project is to construct and renovate office and operations space at the Scranton WWTP. Phase I of the project will construct office, garage and operating facilities for the collections department of the wastewater system. The total estimated cost for this portion of the project is \$7,606,646.

6

34. Scranton WWTP Building Improvements – Phase II (I24-920024-02)

7 The scope of this project is to construct and renovate office and operations space at the 8 Scranton WWTP. Phase II of the project will construct office, garage, laboratory and 9 operating facilities for the treatment department of the wastewater system. The total 10 estimated cost for this portion of the project is \$7,695,272.

11 35. Mill Street Regulator Bypass - Williams Bridge BPS (I24-910049-03)

The existing Mill Street pumping station located in the Scranton area system includes pumps which service the Williams Bridge Gradient and Williams Bridge tank. Currently there is no way to serve this gradient if these pumps or the pipe supplying these pumps fail. This project includes a new 2.5 MGD pumping station and 1,400 feet of pipe to provide redundant supply to the existing Mill Street pumping station and supply pipe, which are critical assets in the Scranton area water system. The total estimated cost of the project is \$2,389,000.

1 36. Saw Creek Wells 2 & 3 Iron and Manganese Removal Improvements 2 (I24-680029)

3 The project is a DEP requirement. There are elevated levels of naturally occurring iron 4 and manganese in the raw water in Wells 2 and 3 in the Saw Creek water system in the 5 Lehman Pike District that are above both the DEP secondary maximum contaminant levels 6 and EPA Health Advisory limits. Due to these elevated manganese levels, Well 2 is 7 normally operated at a reduced flow and Well 3 is not normally used, thus impacting the 8 adequacy and reliability of the water system. This project includes the construction of a 9 new iron and manganese removal treatment facility so that Wells 2 and 3 can be used to 10 their full capacity. This will both improve the water quality in the system and increase the 11 useable well supply, while meeting the DEP and EPA regulations for iron and manganese 12 concentrations in the finished water supply. The total estimated cost of the project is 13 \$3,485,000.

14

37. Pine Ridge Well 5 (I24-680023)

The Pine Ridge water system, located in the Lehman-Pike District, is currently supplied by four groundwater wells, but does not have a reliable source of supply. When the largest well is out of service, the remaining wells cannot meet the average daily demand of the system. The purpose of this project is to locate and develop a new, adequate groundwater well source and associated treatment system to improve the reliability and resiliency of service to our customers in the Pine Ridge system. The total estimated cost of the project is \$1,075,000.

38. Outfall #027 Scranton Sewer System (I24-920022)

2 The project is required by EPA. Washington-Locust Outfall #027 is a proposed off-line 3 combined wastewater storage system being designed and constructed as part of Phase C of 4 the Scranton Long Term Control Plan in the Scranton Wastewater system. This project 5 will provide a new 211,000-gallon off-line storage facility system to collect 90% of the 6 combined WW storm surges, and then gradually pump the collected wastewater back into 7 the CSS after the wet weather event has passed. This structure is to be located along the 8 Lackawanna River near its confluence with Meadow Brook in South Scranton. The project 9 will provide a new inlet structure, two large diameter pipes installed horizontally acting as storage vessels, and a discharge pump station. The total estimated cost of the project is 10 11 \$4,250,000.

12

39. Lake Montrose Dam Rehabilitation (I24-540007)

The project is a DEP requirement. Lake Montrose Dam is a High Hazard Dam and is subject to DEP regulations which require dams of this size and hazard classification to pass the full possible maximum flood ("PMF"). DEP currently shows the dam as passing only 17% of the PMF. The project will provide additional spillway capacity to meet current dam safety regulations. The estimated cost of the project is \$4,525,571.

18

40. Construct Storage - Terry Lane, Royersford System (I24-640010)

19The project will obtain suitable land and construct a 0.75 MG elevated Storage Tank with20an overflow elevation of 470 feet to match the existing system gradient. The project will

upgrade controls at the existing Terry Lane and Merlin Hills BPSs. Additionally, the
 project will replace the existing hydraulic variable speed Pump No. 1 at the Merlin Hills
 booster with a VFD unit of the same 0.46 MGD. The estimated cost of the project is
 \$2,906,711.

5

41. Second 16" Main to East Norriton Twp. BPS (I24-51XX05)

The project will install a water BPS at the existing East Norriton tank site, which will take
water from the Dekalb pressure zone and transfer water to the Church Road Tank pressure
zone to provide a secondary feed into the Church Road zone for reliability. The estimated
cost of the project is \$4,000,000.

10 42. Summit Lake Outlet Works Rehab (I24-910071)

The project is a DEP requirement. Summit Lake Dam is classified as a high hazard dam by the DEP. DEP regulations require high hazard dams to have upstream closure. The existing outlet works excessively, which prevents inspection of the outlet pipe through the dam. The Summit Lake Dam Outlet Modifications include a new intake, valves, trash rack, catwalk, slip lining of the outlet pipe and downstream energy dissipation structure. The estimated cost of the project is \$1,268,000.

17 43. Dunmore #7 Dam Rehabilitation (I24-910005)

18 The project is a DEP requirement. Dunmore Dam No. 7 is classified as a high hazard dam 19 by the DEP. DEP regulations require high hazard dams to pass the full PMF. Dunmore 20 Dam No.7 currently does not have the capacity to pass the full PMF. The rehabilitation project will increase the spillway capacity to safely convey the full PMF. The estimated
 cost of the project is \$11,100,000.

3

44. Griffin Dam Rehabilitation (I24-910028)

The project is a DEP requirement. Griffin Dam is classified as a high hazard dam by the DEP. DEP regulations require dams of this size and hazard classification to pass the full PMF. The existing dam does not pass the full PMF. The project will rehabilitate the structure to meet current DEP regulations. The estimated cost of the project is \$10,832,134.

9

45. Maple Lake Outlet Works Rehabilitation (I24-910068)

10 The project is a DEP requirement. Maple Lake Dam is classified as a high hazard dam by 11 the DEP. DEP regulations require high hazard dams to have upstream closure. The 12 rehabilitation project will address the outlet works deficiency. The Maple Lake Dam 13 Outlet Modifications include a new intake, valves, trash rack, catwalk, slip lining of the 14 outlet pipe and downstream energy dissipation structure. The estimated cost of the project 15 is \$1,521,500.

16

46. Marshwood Dam Outlet Works Rehabilitation (I24-910070)

17 The project is a DEP requirement. Marshwood Dam is classified as a high hazard dam by 18 the DEP. DEP regulations require high hazard dams to have upstream closure facilities on 19 the outlet works. Marshwood Dam does not have upstream closure capabilities on the 20 outlet works. The project includes upgrades such as a new intake, new valves, access

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catwalk to the new valves, trash rack, slip lining of the outlet pipe and downstream energy dissipation structure. The estimated cost of the project is \$1,312,000.

3

47. Stoney Garden Reservoir Spillway Replacement (I24-560007)

The project is a DEP requirement. Stoney Garden Dam has a severely deteriorated spillway, seepage issues, potential embankment stability issues and has 100-year-old outlet works and piping. Rehabilitation of the dam includes replacing the deteriorated spillway; adding seepage drainage facilities; flattening downstream dam embankment for stability; and upgrading outlet works, which includes the replacement of the 100-year-old CI pipe from the dam to the WTP. The estimated project cost is \$6,821,000.

10 48. Gardner Creek Outlet Works Rehabilitation (I24-910069)

11 The project is a DEP requirement. The Gardner Creek Dam is classified as a high hazard 12 dam by the DEP. DEP regulations require high hazard dams to have upstream closure. 13 The rehabilitation project will address the outlet works deficiency. The Gardner Creek 14 Dam Outlet Modifications include a new intake, valves, trash rack, slip lining of the outlet 15 pipe and downstream energy dissipation structure. The estimated project cost is 16 \$2,066,000.

17

49. Curtis Dam Rehabilitation (I24-910008)

18 The project is a DEP requirement. Curtis Dam is classified as a high hazard dam by the 19 DEP. DEP regulations require dams of this size and hazard classification to pass the full 20 PMF. DEP currently shows the dam as passing only 26% of the PMF. The project will

provide additional spillway capacity to meet current dam safety regulations. The estimated cost for this project is \$12,270,760.

- Q. Please explain in general terms the other types of improvements that the Company
 will make in its water and wastewater systems during the FTY.
- 5 A. The Company will replace or upgrade approximately 51,552 existing meters at various 6 points throughout its water distribution system at an estimated cost of approximately 7 \$16.07 million, exclusive of meters associated with projects previously described. Meters 8 are routinely replaced as they approach 20 years of age in the case of 5/8 inch meters and 9 at various other ages for larger size meters. Meters are also replaced due to failures or 10 malfunctions or to incorporate new meter technology.

11 The Company is also planning to replace approximately 13,190 Company-owned 12 old water service lines and 1003 wastewater laterals at an estimated cost of approximately 13 \$2 million. In conjunction with its main replacement projects in 2022, PAWC anticipates 14 replacing 1,091 customer-owned LSLs under the Replacement Plan. I will discuss the 15 modifications PAWC is proposing to its Replacement Plan based on the EPA's recent 16 updates to the Lead and Copper Rule ("LCR") and the Commission's rulemaking to implement Act 120 of 2018 ("Act 120")⁵ later in my direct testimony. Additionally, 17 18 services are replaced for a variety of reasons, including leakage discovered through the 19 Company's leak detection program and other actions to maintain the quality of water 20 service. Pressure and water quality problems can result from old service lines made from

⁵ See Rulemaking to Implement Act 120 of 2018 at 52 Pa. Code Chapters 65 and 66, Docket No. L-2020-3019521 (Final Rulemaking Order entered Mar. 14, 2022) ("Act 120 Final Rulemaking Order").

obsolete materials, such as galvanized iron. When municipal paving projects are being
 planned, the Company reviews its records and determines if there are any obsolete services
 that should be replaced along the street. Service replacement costs are minimized by doing
 the service replacements before repaving occurs.

5 The Company also plans to replace approximately 74.9 miles of various 6 diameter water mains and 15.8 miles of sewer mains at a total cost of approximately 7 \$220 million. This construction is being done for a variety of reasons including improving 8 flow capabilities, preventing water quality degradation, systematically replacing aging 9 distribution system infrastructure, enhancing system reliability and minimizing service 10 disruptions to customers caused by main breaks. The Company anticipates that additional 11 developer projects of over \$4.34 million in total will occur in 2022, which will be funded 12 by developer advances.

Q. Please describe in general terms the types of improvements that the Company will make in its water and wastewater systems during the FPFTY.

A. The following routine improvement activities planned for 2023 will be conducted for the same reasons these projects are undertaken in 2022. The Company will install approximately 11,500 new meters and replace or upgrade approximately 54,855 existing meters at various points throughout its distribution system at an estimated cost of approximately \$19.6 million, exclusive of meters associated with projects previously described.

21The Company is also planning to replace approximately 13,575 old water service22lines and 1200 wastewater laterals at an estimated cost of approximately \$20 million,

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exclusive of services associated with projects previously described. The Company plans
to replace approximately 91 miles of various diameter water pipes and approximately
20 miles of sewer main at a cost of approximately \$188 million, exclusive of the larger
pipeline investment projects previously described. The Company anticipates that
additional developer projects totaling more than \$9.5 million will occur in 2023, which will
be funded by advances.

- 7
- 8

Risks Associated with Furnishing Public Water and Wastewater Service

Public Water Service

9 Q. Please provide an overview of the risks associated with furnishing safe and adequate 10 water quantity and water quality and complying with drinking water and 11 environmental regulations that apply to PAWC's water supply facilities and 12 operations.

A. Water supply utilities are subject to a complex array of regulations at the federal, state and river basin commission levels with respect to water quantity, water quality and other environmental aspects of their facilities and operations.

16 With respect to water sources and the quantity of water that can be withdrawn, 17 PAWC's surface water and groundwater sources are subject to a combination of common 18 law riparian rights and groundwater rights coupled with regulatory regimes administered 19 by the DEP, the Susquehanna River Basin Commission ("SRBC") and Delaware River 20 Basin Commission ("DRBC"). DEP administers the 1939 Water Rights Act,⁶ which 21 requires that public water supply agencies wishing to withdraw water from surface sources,

⁶ 32 P.S. §§ 631-641.

or to acquire rights in surface sources, first obtain a permit. Water systems with sources 1 2 developed prior to 1939 were accorded "orders of confirmation" confirming grandfathered 3 withdrawals, but subsequent changes to those systems and/or increased withdrawals may 4 trigger permitting requirements and possible loss of the "order of confirmation." Both 5 SRBC and DRBC are empowered to review and approve projects having a substantial effect on basin water resources.⁷ Pursuant to their project review authority, SRBC and 6 7 DRBC review proposed surface and groundwater withdrawals that may have a "substantial 8 effect" on basin waters (which are defined in both basins to include withdrawals of greater 9 than 100,000 gallons per day from any source or combination of sources). Such project 10 review is focused on determining consistency with Commission-adopted comprehensive 11 plans and "the proper conservation, development, management or control of the water 12 resources of the basin." In administering their permitting programs, DEP, SRBC and 13 DRBC apply varying policies imposing limitations on withdrawals or requirements for 14 conservation releases from reservoirs to protect stream flows.

Pennsylvania, overall, does not currently suffer serious constraints on its supply of usable water.⁸ However, that assessment does not apply uniformly to all parts of the state. The legacy of coal mining, the effect of oil and gas drilling, run-off from high-intensity agricultural land use, and contamination from inadequate or malfunctioning on-lot septic systems create challenges to obtaining adequate supplies of water in various areas of Pennsylvania. Today, as in the past, these factors continue to drive requests by

⁷ DRBC Compact § 3.8; SRBC Compact § 3.10(2).

⁸ As explained below, climate change is expected to affect the pattern of precipitation in ways that will challenge water suppliers by increasing the severity of both major storm events and intermittent periods of drought.

homeowners for PAWC to extend its facilities to serve areas that do not have a public water
 supply. Under the Commission's regulations on water utilities' responsibility for main
 extensions, PAWC is required to make a significant investment to extend its facilities to
 serve bona fide applicants.

Additionally, as explained above, there are multiple levels of authorization and regulation that apply to a public water system that wants to add a new source of supply or increase its withdrawals from existing sources. These factors add to the costs and leadtime for obtaining new, or increasing existing, water sources to meet new demands that may arise in portions of the Company's system. These are additional risk factors that can directly affect PAWC's ability to furnish safe, adequate and reliable service, and increase the costs PAWC incurs to provide that service.

12 Drinking water quality is addressed by a combination of federal regulation 13 established under the Safe Drinking Water Act of 1973 coupled with state regulation under 14 the Pennsylvania Safe Drinking Water Act. The federal act established the EPA as the 15 federal regulatory authority on drinking water. Under that authority, EPA has created 16 standards for contaminant levels in drinking water and a series of mandatory treatment 17 method standards, coupled with monitoring and reporting requirements, and public 18 notification mandates in the event of contaminant level or treatment method noncompliance.⁹ In turn, Pennsylvania has adopted the federal regulatory standards, plus some 19 20 even more stringent rules, as codified in 25 Pa. Code Ch. 109, which are administered by 21 DEP.

⁹ See 40 C.F.R. Parts 141-143.

1 In recent years, there has been an increase in public concern over potential 2 contaminants that laboratories can now identify at levels that, in the past, could not be 3 detected which certain experts suggest might have health effects. The EPA and state 4 drinking water regulators have responded by increasing their own research and, in some 5 cases, imposing or proposing more stringent regulatory standards, such as with respect to 6 the family of compounds known as per- and polyfluoroalkyl substances ("PFAS"), which 7 include the chemicals perfluorooctanesulfunic acid ("PFOS") and perfluorooctanoic acid 8 ("PCOA"). On February 22, 2021, the EPA issued two actions to address PFAS in drinking 9 water¹⁰. The EPA indicated that they were reproposing the Fifth Unregulated Contaminant 10 Monitoring Rule (UCMR 5) to allow for the collection of data on 29 PFASs and assist it 11 in determining what PFAS are found in drinking water systems and the level that they are 12 present. In addition, the EPA reissued the final regulatory determinations for PFOA and 13 PFOS under the Safe Drinking Water Act (SDWA). The DEP recently initiated a 14 rulemaking to adopt new maximum contaminant levels ("MCL") for PFOS and PCOA that 15 are stricter than under federal regulations. The Company intends to comply with these 16 MCLs and meet all related requirements for monitoring, reporting, and notification upon 17 adoption of the DEP's proposed rules. In general, the Company proceeds cautiously based 18 on the best available information and prepares to achieve treatment levels for such 19 compounds that can reasonably be anticipated based on current research and actions 20 contemplated by regulators, which the Company carefully studies and monitors. The 21 continued evolution of drinking water regulations and best practices requires PAWC to

¹⁰ EPA Takes Action to Address PFAS in Drinking Water, available at https://www.epa.gov/newsreleases/epa-takes-action-address-pfas-drinking-water.

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operate dynamically and be prepared to respond to new contaminants of concern quickly, which can create certain business risks for PAWC.

3 As the result of conditions that arose in Flint, Michigan and other jurisdictions 4 across the country, increasing scrutiny is being placed at all levels concerning lead 5 concentrations in water systems and adoption of more stringent requirements under the 6 recently revised LCR. The lead issue arises not from constituents in source water, but rather from the leaching of lead from older pipes and joints into the water as it passes 7 8 through the distribution lines and household service lines. While controlling of the 9 corrosivity of the water can, in many cases, avoid excessive lead concentrations, the fact is 10 that the plumbing in many older communities (such as those throughout much of PAWC's service territory) contain the type of copper and galvanized pipes with solder joints where 11 12 lead contamination is an increased risk. Consequently, the Pennsylvania General 13 Assembly has determined that it is in the public interest for water utilities to replace 14 customer-owned LSLs "concurrent[ly] with a scheduled utility main replacement project."¹¹ In addition, as recognized by the Commission, physical replacement of the 15 16 entire LSL is emerging as a best practice in the water utility industry to improve public health protection from lead in drinking water.¹² In fact, the EPA recently promulgated 17

¹¹ 66 Pa. C.S. § 1311(b)(2)(i). Section 1311(b)(2) was added to the Pennsylvania Public Utility Code by Act 120, which became law on October 24, 2018. Act 120 authorizes customer-owned LSL replacements that are not performed concurrently with main replacement projects if those replacements are done "under a commission-approved program."

¹² See Petition of Pennsylvania-American Water Company For Approval of Tariff Changes and Accounting and Rate Treatment Related to Replacement of Lead Customer-Owned Service Pipes, Docket No. P-2017-2606100 (Opinion and Order entered Jan. 4, 2019), pp. 6-7.

updates to the LCR that strengthen the requirements for LSL replacement as of June 17,
 2021.¹³

3 The Company is at the forefront of the water industry in proactively eliminating the risks posed by the presence of LSLs. PAWC was the first water utility for whom the 4 5 Commission approved a plan for replacing LSLs pursuant to Act 120. PAWC's efforts to 6 eliminate a potential source of elevated lead levels at the customer's tap under its 7 Replacement Plan require the dedication of management time and resources and the 8 commitment of significant investment capital. These factors, in addition to the demands 9 the Company already faces to rehabilitate, replace, and enhance aging infrastructure and 10 meet evolving regulatory demands, add to risk factors that PAWC faces to assure that it 11 meets its statutory obligation to furnish safe, adequate and reliable water service.

Finally, upstream releases of chemicals represent a significant risk and concern for the Company. One recent example of such an event was the discovery of a long-term release of 1,4 Dioxane into waterways. While this release did not impact PAWC's systems, the incident illustrates this significant risk faced by water suppliers and the importance of their ability to operate dynamically to prepare for and respond to future chemical releases by third parties.

¹³ See National Primary Drinking Water Regulations: Lead and Copper Rule Revisions, 86 Fed. Reg. 4198 (Jan. 15, 2021) ("Revised LCR"); see also 86 Fed. Reg. 4198 (Mar. 12, 2021) (delaying effective date of the Revised LCR from March 16, 2021 to June 17, 2021).

Public Wastewater Service

2 Q. Provide an overview of the risks that environmental regulation poses for PAWC as
3 the owner and operator of public wastewater systems.

A. Like the provision of public water supply service, the operation of wastewater collection
and treatment systems entails a range of environmental regulatory risks. Each of the
wastewater systems acquired by the Company over the past several years have come with
significant regulatory compliance challenges. For example, in the case of Delaware Sewer,
the age and condition of the existing treatment works created a need for system upgrades
to prevent future violations of discharge requirements.

10 Wastewater operations are also regulated at both the federal and state levels 11 pursuant to numerous statutes and voluminous regulations. At the federal level, wastewater 12 systems are regulated pursuant to the Clean Water Act and numerous regulations adopted 13 by the EPA under that law. At the state level, the Pennsylvania Clean Streams Law, 14 Sewage Facilities Act, Solid Waste Management Act, Storage Tank and Spill Prevention 15 Act and other laws administered by the DEP, coupled with the regulations adopted under 16 those statutes, set standards and requirements for virtually every aspect of wastewater 17 system operations.

18 One risk associated with operating wastewater systems is that effluent limitations 19 imposed on WWTP discharges are stringent and can become more stringent over time. The 20 Clean Water Act requires wastewater systems to obtain and comply with National Pollutant 21 Discharge Elimination System ("NPDES") permits, which, in Pennsylvania, are issued by

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DEP. NPDES permits establish stringent effluent limits based upon the stricter of: (1) technology-based effluent limits; and (2) water quality-based effluent limits.

3 PAWC has faced significant regulatory compliance challenges with each of the 4 wastewater systems the Company acquired over the past several years. For example, 5 PAWC is investing \$2.8 million in the wastewater system acquired from Delaware Sewer 6 Company to prevent future NPDES permit violations. Evolving permitting requirements, 7 such as changes to NPDES permit discharge levels for copper and zinc in the wastewater 8 system the Company acquired from Borough of Kane Authority in 2020, further complicate 9 the permitting and compliance process for the Company. More stringent effluent limits 10 may be imposed when technology evolves or stream conditions change, engendering 11 requirements for significant capital improvements and/or increased operating costs for 12 enhanced treatment performance. Every five (5) years, NPDES permits are up for renewal, 13 and in any such renewal more stringent limits may be triggered.

14 Another risk for PAWC is that several Pennsylvania streams, including those where 15 PAWC is operating wastewater systems, are parts of watersheds that are classified as 16 "impaired" (meaning their instream quality does not meet state standards). Such impaired 17 waters are subject to the development and imposition of Total Maximum Daily Loads 18 ("TMDLs") for parameters that contribute to the instream conditions. A prime example is 19 the Chesapeake Bay watershed, which includes the entire Susquehanna River Basin, where 20 a TMDL has been established for sediments (total suspended solids) and nutrients 21 (phosphorous and nitrogen). Where TMDLs are established by EPA or DEP, stringent 22 waste load allocations are made to point-source discharges (such as WWTPs), and

allocations are also made to non-point sources, such as agriculture and urban runoff. In
the case of the Chesapeake Bay TMDL, for example, every WWTP in the Susquehanna
Basin has been accorded an annual "cap load" for total nitrogen and total phosphorous –
where any cap loading exceedance irrespective of the cause (such as increased flows and
loadings from system customers or high stormwater flows entering the system) – can lead
to stiff penalties and other enforcement actions.

Wastewater systems also face significant regulatory and environmental liability
risks. Non-compliance with wastewater system effluent limits and other permit conditions
can result in severe penalties. Regulatory violations open the operator to not only
governmental agency enforcement actions, but also citizen suits in which both injunctive
relief and civil penalties can be imposed. Currently, violation of effluent limit or other
permit conditions may result in administrative penalties of up to \$23,989 per day and courtimposed penalties of up to \$59,973 per day.

Another risk arises from PAWC's Scranton, McKeesport and Kane CSSs where both storm water and sanitary/industrial wastewaters flow in the same sewer lines. CSSs incur high flows during and after storms, which may exceed the system conveyance and/or treatment capacity, with excess untreated wastewater discharged to receiving streams through CSO outfalls. In many cases, separation of CSSs into separate sanitary and storm systems is logistically and economically infeasible.

20 EPA's CSO Control Policy,¹⁴ which applies to publicly owned treatment works 21 ("POTWs") (i.e., those systems owned or operated by state or local governmental

¹⁴ 59 Fed. Reg. 18687 (April 19, 1994), available at: https://www.epa.gov/sites/production/files/2015-10/documents/owm0111.pdf.

1 agencies), while recognizing that CSOs cannot be entirely eliminated, seeks to reduce 2 them. Although the federal Clean Water Act generally requires that all wastewater be 3 treated with at least secondary treatment prior to discharge, the CSO Control Policy 4 provides an exception for POTWs. Currently, the CSO Control Policy, by its terms, does 5 not provide similar exceptions for non-publicly owned sewage systems. However, some 6 utilities (including PAWC) have obtained EPA's agreement to continue to apply the CSO 7 Control Policy's exception to systems that were formerly POTWs and were acquired by 8 non-public entities. EPA's recognition of such exceptions must be obtained by negotiation 9 on a case-by-case basis and typically entails entering into court-approved consent decrees 10 or agency consent orders that impose stringent capital improvement and operating 11 obligations on the non-public owner of the wastewater system.

12 Under the CSO Control Policy and applicable NPDES permits, operators of CSSs 13 must develop and implement LTCPs, consisting of collection system and treatment plant 14 improvement projects designed to reduce CSOs to no more than four (4) events per year 15 and/or capture and treatment of 85-90% of annual storm water flows. These LTCP 16 requirements often involve very substantial multi-year capital expenditure programs. The 17 impact of LTCP mandates on customers' rates can also be significant and, in what are often 18 economically depressed communities, may require rate increases that approach or exceed 19 EPA's "affordability" criteria for water/wastewater system rates.

1 CSS operators must adopt and implement a Nine Minimum Controls Plan,¹⁵ 2 consisting of a series of actions that address the management of storm water and 3 constituents in storm water runoff, including regulation of storm water connections, 4 regulation of land development/erosion and sedimentation activities, control of industrial 5 and other dischargers, catch basin maintenance, and street sweeping, etc.

6 Moreover, even where systems being acquired do not involve combined sewers, high rates of I&I¹⁶ during wet weather can surcharge the system and exceed the hydraulic 7 8 or treatment capacity of the WWTP. System upgrades to reduce I&I may require major 9 capital expenditures. This was the case with the Clarion wastewater system, which PAWC 10 acquired in 2008. PAWC was required to enter into a Consent Order with DEP to 11 implement a series of collection system and WWTP improvements for the Clarion wastewater operations on a schedule that was enforced by stipulated penalties in the event 12 of any unexcused delay. 13

14

Challenges Climate Change May Create

Q. Does climate change pose additional risks for water supply and wastewater system
 utilities such as PAWC?

A. Yes. Whatever the debate may be concerning the causes of climate change, water supply
 and wastewater utilities face the reality of changing climatic conditions and attendant
 stresses on water resources. Although climate models for the northeastern U.S. generally

¹⁵ U.S. Environmental Protection Agency, Combined Sewer Overflows Guidance for Nine Minimum Controls, EPA 832-B-95-003 (May 1995), available at: https://www3.epa.gov/npdes/pubs/owm0030.pdf.

¹⁶ I&I involves the infiltration of groundwater and stormwater into what is considered to be a sanitary only sewer line, such as through joints and other weaknesses in the pipelines.

predict overall annual precipitation amounts to remain similar to average historic experience, increasingly intense storms and repeated, extended dry periods are anticipated.¹⁷ That means we can expect more droughts of varying degrees of severity and more frequent and intense high-flow events and floods – which impact water and severater utilities.

6 Water supply systems are fundamentally resource-dependent and, therefore, the 7 effects of climate change pose a significant on-going risk and create challenges with regard 8 to maintaining a reliable water supply during the full range of potential future conditions, 9 including even what might be assumed to be "normal" periods. The safe yields of water 10 supply sources have historically been evaluated based on historical climatic patterns, data 11 from so called "droughts of record" or dry period frequency analysis. However, changing climatic conditions suggest that historical hydrologic data (which in many cases only 12 13 reflect 50-100 years of rainfall and stream flow measurement collection – a quite short 14 period in geologic or climatic time) may not accurately predict future conditions. Thus, the calculated safe yield of streams, reservoirs and groundwater wells are put in question 15 16 as the effects of climate change are experienced across the northeastern United States. Thus, in response to climate change, water supply systems must address the risks posed to 17 18 the reliability and resilience of their sources.

¹⁷ R. Horton, G. Yohe, W. Easterling, R. Kates, M. Ruth, E. Sussman, A. Whelchel, D. Wolfe, and F. Lipschultz, 2014: Ch. 16: Northeast. Climate Change Impacts in the United States: The Third National Climate Assessment, (J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds.), U.S. Global Change Research Program (2014); *see also*, J. Shortle, *et al*, Pennsylvania Climate Impacts Assessment Update (May 2015), available at http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-108470/2700-BK-DEP4494.pdf.

1	While droughts are the major challenge for water supply systems, heavy
2	precipitation and high-flow events are the concern of wastewater systems. As mentioned
3	previously, wastewater systems of all types are impacted by storm water - directly in the
4	case of CSSs and indirectly (but nevertheless significantly) by I&I in "sanitary only"
5	systems. The prediction of increased intensity of strong storms and high rainfall events in
6	the northeastern United States portends challenges to wastewater systems which must, in
7	turn, cope with and treat higher peak flows while avoiding exceedance of effluent
8	limitations and reducing the potential for untreated overflows. An additional challenge
9	related to high intensity rain events is higher levels and frequency of flooding. Flooding
10	has the potential to impact both water and wastewater treatment facilities which are often
11	located in proximity to water ways.

Lead Service Line Replacement

13 Q. Provide a summary of PAWC's Commission-approved Replacement Plan.

14 A. Each year, PAWC will replace, at its expense, up to 1,800 customer-owned LSLs 15 (1) encountered as part of the Company's ongoing main and/or service line replacement 16 work ("Part 1") and (2) at a customer's request, subject to certain conditions, including 17 verification of the presence of a LSL on the property and the Company's determination of 18 when the replacement will occur based on various factors ("Part 2"). Part 1 will avoid 19 creating a risk of exposing customers to elevated lead levels in their drinking water from 20 PAWC's extension of its infrastructure rehabilitation program into areas where LSLs are 21 more likely to exist. This risk arises from a "partial" replacement, which physically 22 disturbs, but leaves in place, the customer's segment of a service connection. Part 2 of the Replacement Plan will proactively remove any possible risk of lead exposure from Service
 Pipes in areas where the stability of the existing LSLs will not be disturbed by main
 replacements. The Replacement Plan incorporates customer outreach and communications
 to educate PAWC customers about the risks of lead in drinking water and the opportunity
 to participate in Part 2 of the Company's Replacement Plan.

6 To mitigate the impact of the Replacement Plan on customer rates, PAWC set a 7 budget cap of \$6 million per year on the amounts expended to replace customer-owned 8 LSLs. In addition, and consistent with Act 120, PAWC provides reimbursement to 9 customers who replaced LSLs at their own cost within one year of commencement of a 10 project under the Replacement Plan. In 2020 and 2021, PAWC replaced 8 and 11 68 customer-owned LSLs, respectively, at a total cost of \$0.88 million (\$37,144 in 2020) 12 and \$0.85 million in 2022). Please note that PAWC's work has been limited to date due to 13 impacts of the COVID-19 pandemic and the Company's inability to enter homes to perform 14 the work.

15 Q. Is the Company proposing any changes to the Replacement Plan in this case?

A. Yes. PAWC is proposing the tariff revisions to modify the Company's Replacement Plan based on the Revised LCR and the Act 120 Final Rulemaking Order. First, PAWC is proposing tariff revisions to allow the Company to replace customer-owned galvanized service lines connected to a Company-owned lead gooseneck or other upstream lead material as required by the Revised LCR. This requirement will likely more than double the number of service lines subject to replacement. The Company intends to begin replacing these galvanized service lines in 2022. Second, the Company is proposing to

1 increase the annual cap on customer-owned service line replacements and budgetary 2 allotment for those replacements. The pace of LSL replacements and annual budgetary 3 allotment of \$6 million reflected in the Company's PUC-approved Replacement Plan was 4 based on PAWC's estimate of the number of LSLs remaining on its system as of May 2017 5 indicated by preliminary surveys of the Company's "tap cards". A tap card is a hard copy 6 record of the location and data related to each service tap into the main. These sources are 7 not always entirely accurate because homeowners may have replaced their LSLs without 8 notifying PAWC. To that end, the Company is developing a service line inventory in 9 accordance with the Revised LCR and Act 120 Final Rulemaking Order to identify and categorize service lines by material directly associated with lead (e.g., "lead," "non-lead," 10 "lead status unknown" and "galvanized requirement replacement").¹⁸ Based on the 11 12 additional service line material identified since the Company's initial estimate of LSLs and 13 the addition of certain galvanized service lines to the Replacement Plan, PAWC is 14 proposing to increase the annual budgetary allotment for the Replacement Plan from 15 \$6 million to \$15 million and the annual cap on replacements from 1,800 to 5,400 service 16 lines.

17

Stormwater Fee Feasibility Study

Q. Did the Company make any commitments regarding evaluating the feasibility of stormwater fees for its CSSs in its last base rate case?

¹⁸ See 40 C.F.R. § 141.85; Act 120 Final Rulemaking Order, pp. 37-42. The regulations regarding LSL replacement programs at 52 Pa Code §§ 65.51 to 65.62 adopted in the Act 120 Final Rulemaking Order will become effective 60 days after publication in the *Pennsylvania Bulletin*.

A. Yes. As part of the settlement approved in the last rate case, the Company agreed to
 propose potential recovery and rate methodology options for stormwater costs of its CSSs
 in its next base rate filing.

4

Q. Has the Company satisfied this settlement obligation?

A. Yes. The Company engaged Gannett Fleming, Inc. to perform a Stormwater Fee
Feasibility Study ("Feasibility Study"), which is included as Exhibit No. 14-A. Nathan
Walker is offering testimony in this proceeding sponsoring the Feasibility Study. The
Feasibility Study identifies the different methodologies that could theoretically be used by
the Company to develop a separate stormwater fee and calculates potential stormwater fees
for the Company's CSS customers.

Q. Is the Company proposing to begin charging a stormwater fee to its CSS customers in this proceeding?

A. No. The Feasibility Study identifies several regulatory, technical, administrative, and
 implementation challenges associated with the Company charging its customers a
 stormwater fee.

Q. Is the Company's adoption of a stormwater fee feasible from an operational perspective?

A. No, I do not believe it would be reasonable or feasible for the Company to charge
 stormwater fees to CSS customers. Based on my review of the Feasibility Study and my
 understanding of the Company's operations, I have several concerns with the adoption of
 a stormwater fee that relate to community coordination, data management, collections, and
 customer service and billing processes, which are summarized below.

Community Coordination

2 In order to calculate stormwater fees for customers, the Company would be tasked with 3 obtaining significant property record data regarding its Kane, McKeesport, and Scranton 4 service areas. The Company would be required to enter into agreements with nearly two 5 dozen municipalities, townships, and counties in order to access the data required to 6 calculate an accurate stormwater fee based on the impervious area of a property. This data 7 would also need to be updated at regular intervals by all municipalities, townships, and 8 counties to ensure that the Company's stormwater fees remain accurate over time due to 9 land development changes. It is unlikely the Company could successfully convince all 10 municipalities, townships, and counties to provide it with regular access to this information. 11 I would expect these localities to raise cost, staffing, resource, and possibly confidentiality 12 and privacy concerns in response to such a request by the Company. Moreover, some 13 municipalities may already have plans to begin charging a stormwater fee to their residents, 14 and residents located near the boundary of the Company's CSS could end up being charged 15 duplicative stormwater fees as a result. There is simply no benefit to municipalities, 16 townships, and counties to agree to provide this information to the Company, and I would 17 expect many local entities to reject this request. Without this data from the relevant 18 municipalities, townships, and counties, there is no way for PAWC to develop a stormwater 19 fee based on impervious area.

20

Data Management

21 If the Company theoretically were able to convince all municipalities, townships, and 22 counties to provide property record data to the Company, the Company would experience

1 several data management challenges. The Company does not currently have any 2 information technology ("IT") system or business procedures in place to maintain and 3 review this data. The Company would need to manually cross-reference this property 4 record data with aerial imagery to ensure it is accurate and current. At regular intervals, 5 the Company would also be required to update this data based on information provided by 6 municipalities, townships, and counties and develop a process for adjusting stormwater 7 fees across its CSS footprints. This process would be entirely new to the Company, and 8 I would expect significant additional resources, time, and staffing to be required to support 9 the IT changes and procedures required to determine these fees and update them based on 10 current impervious area data for all properties.

11

Collections

12 As a regulated public utility, the Company's relationship to its customers is contractual in 13 nature, *i.e.*, the Company can only provide service to a customer upon customer request. 14 Unlike municipalities who have the authority to charge a stormwater fee to property owners 15 based on property records, the Company cannot charge a "stormwater contributor" who are 16 not otherwise customers of PAWC. Similarly, the Company's primary tool for collections 17 is disconnecting service for non-payment. Because it is not a municipality, the Company 18 does not have the power to impose a lien on the property of its customers for non-payment. 19 The limitations on the Company's billing and collection authority as compared to a 20 municipality are significant with respect to stormwater fees. Simply put, the Company has 21 no way to disconnect stormwater service and therefore, it would be prohibitively difficult 22 for the Company to pursue customers for non-payment. It is my understanding from

1 counsel that the Company could theoretically sue its customers for non-payment, but the 2 typical resources associated with such lawsuits are cost-prohibitive. The adoption of a 3 stormwater fee takes away the main collection tool used by the Company, which would 4 likely lead to a significant increase in the Company's uncollectible accounts. It would be 5 unfair for other customers to be required to pay for the increased uncollectible accounts 6 expenses caused by a separate stormwater fee.

7

Customer Service and Billing

8 Finally, I am concerned that imposing a stormwater fee on a subset of customers would 9 create customer service and billing issues. Additional customer service training and 10 scripting changes would be required, which would be increasingly complicated considering 11 that only certain wastewater customers would be eligible for the stormwater fees. I would 12 expect customers of our Scranton, McKeesport, and Kane systems to raise concerns 13 regarding the fairness of charging stormwater fees to them, so the Company likely would 14 need to engage in extensive customer education regarding billing. Customer confusion and 15 related disputes inevitably would increase as a result of this change. Significant IT and 16 staffing changes likely would be needed to address these customer service and billing 17 issues.

18 **Q**.

Do you have any other comments about stormwater fees at this time?

19 A. Yes. For all the reasons addressed above, I would like to reiterate that I do not believe it is reasonable for the Company to charge a stormwater fee. When a municipality charges a 20 21 stormwater fee, the purpose of the stormwater fee is to fund upgrades to its stormwater 22 facilities. By contrast, the major upgrades associated with the Companies' CSSs are

1		focused on reducing sewage overflows. In other words, it is the sewage component and
2		the prevention of overflows that contain sewage rather than stormwater causing the
3		Company to incur the vast majority of costs related to these systems. Accordingly, it is
4		more appropriate for the Companies' CSS customers to be charged a wastewater fee rather
5		than a stormwater fee.
6		Middlesex Interconnection
7	Q.	Please summarize the issues raised by the Commission at Docket Nos. A-2021-
8		3025160 and U-2021-302516 related to the Company's emergency interconnection
9		agreement with MTMA.
10	A.	Ordering Paragraph No. 5 in the Commission's Order entered November 18, 2021
11		approving the Company's application for a Certificate of Public Convenience for Approval
12		of the Right to Offer, Render, Furnish and Supply Water Service to the Public in Middlesex
13		Township, Cumberland County, Pennsylvania and Request for a Certificate of Filing for
14		an Emergency Interconnection Agreement between the Company and Middlesex
15		Township Municipal Authority (the "Middlesex Application") states "That in
16		Pennsylvania-American Water Company's next rate case that proposes to include in rate
17		base any facilities installed to provide water service in this Application's requested
18		territory, Pennsylvania-American Water Company shall provide testimony that separately
19		identifies this Application and that further justifies the inclusion of these facilities in rate
20		base, including by providing a calculation of Pennsylvania-American Water Company's
21		minimum required investment for this main extension, in a similar fashion to the equation
22		in the Commission's regulations at 52 Pa. Code §65.21(3)."

Q. Were the facilities installed pursuant to the Middlesex Application for the purpose of providing water service to MTMA?

3 No. The main extension and emergency interconnection with MTMA was at the request A. 4 of the Company and for the benefit of its customers. The Company maintains multiple 5 emergency interconnections across its systems in order to maintain adequate and reliable 6 service during main breaks or other emergencies. This particular area of the 7 Mechanicsburg system has been growing and an outage would impact an increasing 8 number of customers. The ability to also provide water to MTMA on an emergency basis 9 was ancillary. The Middlesex Application was filed only because the location of the 10 interconnection vault was outside of the Company's certificated service territory and there 11 was a potential for water to also be provided to MTMA on an emergency basis. Since 12 being placed in service in February 2022, the Company has received water from MTMA 13 on only one occasion and has not provided any water to MTMA. These facilities are 14 properly included in rate base because they have benefited the Company's customers 15 through increased reliability. Given that the main extension was not initiated by a request 16 from MTMA or installed for the purposes of serving MTMA, but rather to improve the 17 reliability of the Company's Mechanicsburg system, a calculation of the Company's 18 minimum required investment similar to the equation in the Commission's regulations at 19 52 Pa. Code § 65.21(3) is inapplicable.

20 Q. Does this conclude your testimony?

21

A. Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

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PENNSYLVANIA PUBLIC UTILITY COMMISSION

v.

PENNSYLVANIA-AMERICAN WATER COMPANY DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

VERIFICATION

I, **Bruce W. Aiton**, hereby state that the facts set forth in the pre-marked Statement No. 3 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

m De

Statement No. 4 Gress

PAWC STATEMENT NO. 4

DIRECT TESTIMONY

OF

STACEY D. GRESS

WITH REGARD TO

PENNSYLVANIA-AMERICAN WATER COMPANY'S

CLAIMED RATE BASE, DEPRECIATION AND AMORTIZATION, TAXES OTHER THAN INCOME, ACQUISITIONS IN RATE BASE, ALLOCATION OF COMMON COSTS BETWEEN WATER AND WASTEWATER OPERATIONS, RATE CASE AND REGULATORY EXPENSE, PROPOSED TARIFF CHANGES, AND RATE STRUCTURE AND RATE DESIGN PROPOSAL

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY

DIRECT TESTIMONY OF STACEY D. GRESS

1	Q.	What is your name and business address?
2	A.	My name is Stacey D. Gress, and my business address is 1 Water Street, Camden,
3		New Jersey 08102.
4	Q.	By whom are you employed and in what capacity?
5	A.	I am employed by American Water Works Service Company (the "Service Company") as
6		Director of Rates and Regulatory for Pennsylvania-American Water Company ("PAWC"
7		or the "Company"). The Service Company is a wholly owned subsidiary of American
8		Water Works Company, Inc. ("American Water") that provides services to PAWC and its
9		affiliates.
10	Q.	Please summarize your educational background and professional experience.
11	A.	I received a Master of Business Administration Degree, with a specialization in Finance,
12		from Drexel University in 2007. I also hold a Bachelor of Arts Degree in Economics from
13		Rutgers University, as well as an Associate in Science Degree for Business Administration
14		from Camden County College. In October 2017, I attended the Utility Rate School
15		sponsored by the National Association of Regulatory Utility Commissioners.
16	Q.	What are your duties as Director of Rates and Regulatory?
17	A.	My duties as Director of Rates and Regulatory principally include preparing and presenting
18		rate applications for PAWC. In addition, I am responsible for certain aspects of the
19		financial, budgeting and regulatory functions of the Company.

Q. Have you previously submitted testimony before the Pennsylvania Public Utility Commission (the "Commission")?

A. Yes, I prepared and provided testimony in PAWC's last base rate case at Docket No.
 R-2020-3019369. In addition, I have testified before the West Virginia Public Service
 Commission on behalf of an American Water subsidiary, West Virginia-American Water.

6

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to explain the portions of the Company's principal accounting exhibit, Exhibit No. 3-A, that I am sponsoring, which relate to the Company's claims for rate base, depreciation and amortization, taxes other than income, and acquisitions in rate base since its last base rate case. Additionally, my testimony supports the Company's claim for rate case and regulatory expense, as well as the allocation of common costs between water and wastewater operations. I will also describe changes that the Company is proposing to make to its water and wastewater tariff in this case. Finally,

- 14 I will discuss the Company's rate structure and rate design proposal.
- 15 16

The Development of the Combined Water and Wastewater Revenue Requirement

- 17 Q. Please explain how the Company developed its revenue requirement in this case.
- 18 A. The total Company revenue requirement was developed based on six separate revenue
 19 requirements, defined as follows:
- Water Operations,
 Wastewater Sanitary Sewer Systems ("SSS") General Operations,
 Royersford Wastewater ("WW") Operations,
- Upper Pottsgrove WW Operations,

- York WW Operations, and
- 2

Wastewater Combined Sewer Systems ("CSS") Operations.

3 In this case, the Company is distributing a portion of the revenue requirements for its 4 wastewater operations to the revenue requirements of its water operations as shown on 5 Exhibit No. 3-A on the Revenue Requirement Summary. The allocation of a portion of 6 wastewater revenue requirements to water revenue requirements by utilities that provide 7 both forms of service was authorized by amendments to the Public Utility Code made by 8 Act 11 of 2012. Those amendments provide the Commission a reasonable means of 9 moderating the rate impact of significant investments needed to improve the service, 10 reliability and environmental compliance of acquired wastewater systems. The 11 Commission approved the allocation of a portion of the Company's wastewater revenue 12 requirements to water revenue requirements in the Company's last three base rate 13 proceedings. In the Company's last base rate case, Docket No. R-2020-3019369, the 14 Commission approved a settlement that allocated 50% of the Company's wastewater 15 revenue requirement increase to the water revenue requirement in the rates that went into 16 effect on January 1, 2022.

For the Company's six revenue requirements identified above, the Company has prepared six detailed revenue requirement studies that set forth the Company's claims for rate base, depreciation, operating and maintenance expenses, taxes and pro forma revenues for a historic test year ending December 31, 2021 ("HTY"), a projected future test year ending December 31, 2022 ("FTY"), and a fully projected future test year ending December 31, 2023 ("FPFTY"). In Exhibit No. 3-A, the historic test year data are generally identified by the title or heading "Present Rates at December 31, 2021" and the 1 FTY and FPFTY are generally identified by the title or heading "Present Rates at 2 December 31, 2022," and "Present Rates at December 31, 2023," respectively.

3 Q. Why did the Company prepare separate revenue requirements?

4 The Company developed revenue requirements for its base water, wastewater sanitary A. 5 sewer systems and wastewater combined sewer systems, and also developed individual 6 revenue requirements as required by previous settlements for certain acquisitions under 7 Section 1329 of the Public Utility Code. Separate revenue requirements were developed for Royersford WW Operations, Upper Pottsgrove WW Operations, and York WW 8 9 Operations acquisitions independently, as agreed to in the settlements of these acquisitions.^{1 2} Additionally, the Joint Petition for Non-Unanimous Settlement (the 10 11 "Settlement"), which was approved by the Commission in the Company's last base rate 12 case, provides that the Company is not required to provide a separate study for each

¹ See Application of Pennsylvania-American Water Company – Wastewater Division under Section 1329 of the Pennsylvania Public Utility Code, 66 Pa. C.S. § 1329, for the Acquisition of Royersford Borough's Wastewater System Assets, Docket No. A-2020-3019634 (Opinion and Order entered on May 7, 2021) (Hereinafter Royersford Order); Application of Pennsylvania-American Water Company – Wastewater Division (PAWC-WD), under Sections 1102 and 1329 of the Pennsylvania Public Utility Code, 66 Pa C.S. §§ 1102(a) and 1329 (relating to enumeration of acts requiring certificate and valuation of acquired water and wastewater systems), or approval of: (1) the transfer, by sale, of substantially all of the wastewater system assets, properties and rights of Upper Pottsgrove Township related to its wastewater collection and conveyance system; (2) the right of PAWC-WD to begin to offer or furnish wastewater service to the public in Upper Pottsgrove Township. Montgomery County, and a portion of Douglass Township, Berks County, Pennsylvania; and (3) the use for ratemaking purposes of the lesser fair market value or the negotiated purchase price of the Upper Pottsgrove Township assets related to its wastewater collection and treatment system, Docket No. A-2020-3021460 (Opinion and Order entered on September 15, 2021) (Hereinafter, Upper Pottsgrove Order); In re: Application of Pennsylvania-American Water Company under Section 1102(a) of the Pennsylvania Public Utility Code, 66 Pa C.S. § 1102(a), for approval of (1) the transfer, by sale, to Pennsylvania-American Water Company, of substantially all of the assets, properties and rights related to the wastewater collection and treatment system owned by the York City Sewer Authority and operated by the City of York, (2) the rights of Pennsylvania-American Water Company to begin to offer or furnish wastewater service to the public in the City of York. Pennsylvania, and to three bulk service interconnection points located in North York Borough, Manchester Township and York Township, York County, Pennsylvania, and (3) the rights of Pennsylvania-American Water Company to begin to offer and furnish Industrial Pretreatment Program to qualifying industrial customers in Manchester Township, Spring Garden Township and West Manchester Township, York County, Pennsylvania, Docket No. A-2021-3024681 (Joint Petition for Approval of Unanimous Settlement of All Issues filed February 1, 2022 and approved by Opinion and Order dated April 14, 2022) (Hereinafter, York Order).

² Settlement of the Valley Township water and wastewater proceedings did not require a separate cost of service study.

combined stormwater system. The Company has included one Wastewater CSS Operation
 study for Scranton, McKeesport and Kane wastewater systems, as permitted under the
 Settlement.³

4

Rate Base

5 Q. What are the Company's rate base claims in this proceeding?

6 A. The total Company rate base claim in this proceeding is shown below for each of the six

7 revenue requirements:

Rate Base	2023 Proposed
Water Operations	\$4,034,404,746
Wastewater SSS General Operations	\$372,166,500
Royersford WW Operations	\$12,794,355
Upper Pottsgrove WW Operations	\$13,829,945
York WW Operations	\$233,085,970
Wastewater CSS Operations	\$479,444,857
Total:	\$5,145,726,373

8

9 The calculations of these amounts are shown in Exhibit No. 3-A under the respective rate

10 base sections for each revenue requirement.

11 Q. What are the elements of the Company's rate base claims?

12 A. PAWC's rate base claims consist of several elements. The first and largest element is the

- 13 depreciated original cost of net plant in service. To this amount, three items have been
- 14 added to each of the rate base claims: (1) materials and supplies; (2) cash working capital;
- 15 and (3) accrued taxes net of prepaid taxes.
- 16 For Water Operations, items four and five described below were added:

³ Joint Petition for Non-Unanimous Settlement of Rate Investigation ("Joint Petition for Non-Unanimous Settlement") at ¶ 28, Docket No. R-2020-3019369.

1 (4) the unamortized balance of the Commission-approved⁴ utility plant acquisition 2 adjustments associated with the Company's acquisitions of the water assets of the former 3 Pennsylvania Gas & Water Company ("PG&W"), Lake Spangenberg Water Company, the 4 Fernwood Community Water System, and the Olwen Heights Water Service Company, 5 Inc., as well as the unamortized balance of the Commission-approved acquisition 6 transaction and closing costs for the Company's acquisitions of the water assets of the 7 Steelton Borough Authority and Municipal Authority of the Borough of Turbotville. In addition, the Company is seeking approval for recovery of the transaction and closing costs 8 9 associated with its acquisitions of the water systems from Valley Township and SLIBCO 10 Utilities, as well as its planned acquisition of the Creekside Homeowner's Association 11 water system, which will be completed prior to the end of the FPFTY. These acquisition 12 transaction and closing costs are similar to the acquisition transaction and closing costs 13 approved by the Commission for the Steelton Borough Authority and the Borough of 14 Turbotville acquisitions; and

(5) the unamortized balance of additional costs incurred by the Company relative
to its position as receiver of the Winola Water Company, Docket No. P-2018-3006216,
which are discussed in more detail below.

For the Wastewater SSS General Operations rate base claim, a fourth item was added: (4) the unamortized balance of the Commission-approved utility plant acquisition adjustments associated with the Company's acquisitions of the wastewater assets of the

⁴ References in this testimony to Commission authorized balances and amortizations of acquisition adjustments can be found at Docket No. R-2020-3019369, Joint Petition for Non-Unanimous Settlement of Rate Investigation, Appendix E, approved by Order entered February 25, 2021, unless specifically stated otherwise.

1 former Clean Treatment Sewage Company, the Borough of New Cumberland, and 2 Delaware Sewer Company, as well as the unamortized balance of the Commission-3 approved acquisition transaction and closing costs for the Company's acquisitions of the 4 wastewater assets of Sadsbury Township, Exeter Township, Delaware Sewer Company, 5 and the Borough of Turbotville. In addition, the Company is seeking approval for recovery 6 of the acquisition transaction and closing costs associated with the acquisition of 7 wastewater assets of Valley Township and the planned acquisition of wastewater assets of 8 Foster Township, Docket Nos. A-2020-3020178 and A-2021-3028676, respectively. As 9 discussed in the direct testimony of my colleague, Mr. Grundusky (PAWC St. No. 7), the 10 Foster Township acquisition will be completed prior to the end of the FPFTY. These 11 acquisition transaction and closing costs are similar to the acquisition transaction and 12 closing costs approved by the Commission and previously discussed in my testimony.

For Royersford WW Operations, a fourth item was added: (4) the Company is seeking approval for recovery of the acquisition transaction and closing costs associated with the Company's acquisition of the wastewater assets of the Royersford Borough, Docket No. A-2020-3019634. These acquisition transaction and closing costs are similar to the acquisition transaction and closing costs discussed previously.

For Upper Pottsgrove WW Operations, a fourth item was added: (4) the Company is seeking approval for recovery of the acquisition transaction and closing costs associated with the Company's planned acquisition of the wastewater assets of Upper Pottsgrove Township, Docket No. A-2020-3021460, which will be completed prior to the end of the FPFTY. These acquisition transaction and closing costs are similar to the acquisition transaction and closing costs discussed previously. For York WW Operations, a fourth item was added: (4) the Company is seeking approval for recovery of the acquisition transaction and closing costs associated with the Company's planned acquisition of the wastewater assets of the City of York, Docket No. A-2021 3024681, which will be completed prior to the end of the FPFTY. These acquisition transaction and closing costs are similar to the acquisition transaction and closing costs discussed previously.

For the Wastewater CSS Operations rate base claim, a fourth item was added: (4) the
unamortized balance of the Commission-approved transaction and closing costs associated
with the Company's acquisitions of the wastewater assets of the Sewer Authority of the City
of Scranton, the Municipal Authority of the City of McKeesport, and the Borough of Kane
Authority.

12 For the calculation of the Water Operations rate base claim, seven items have been 13 deducted: (1) a net offset to cash working capital requirements to reflect the timing of the 14 payment of interest and preferred dividends; (2) unamortized investment tax credits that were generated prior to 1971; (3) a thirteen-month average of extension deposits in 15 suspense; (4) contributions-in-aid-of-construction ("CIAC") and customer advances for 16 17 construction ("CAC") associated with the Company's acquisition of the water assets of the 18 former Citizens Utilities Water Company of Pennsylvania ("Citizens"); (5) balance of the 19 regulatory liability for the federal income tax savings associated with the 2017 Tax Cuts 20 and Jobs Act ("TCJA") for January 1, 2018 through June 30, 2018 (the "Stub Period") and 21 the unamortized balance of the Negative Deferred Tax Credit reconciliation from 22 January 28, 2021 through December 31, 2021; (6) other deductions (as described below); 23 and (7) accumulated deferred taxes.

For the calculation of the Wastewater SSS General Operations and Wastewater CSS Operations rate base claims, three items have been deducted: (1) a net offset to cash working capital requirements to reflect the timing of the payment of interest and preferred dividends; (2) the balance of the regulatory liability for federal income tax savings associated with the TCJA Stub Period relating to Wastewater SSS General and Scranton WW CSS Operations; and (3) accumulated deferred taxes.

For the calculation of the Royersford, Upper Pottsgrove, and York WW Operations rate base claims, two items have been deducted: (1) a net offset to cash working capital requirements to reflect the timing of the payment of interest and preferred dividends; and (2) accumulated deferred taxes.

Q. Has the Company made an adjustment to the balance of the regulatory liability for the TCJA Stub Period tax savings approved for amortization in the last case as it relates to the interest accrual?

A. Yes. The Company made an adjustment to the projected interest accrual on the regulatory
liability for the TCJA Stub Period tax savings using the actual interest at the residential
mortgage lending rate specified by the Secretary of Banking in accordance with the Loan
Interest and Protection Law, 41. P.S. §§ 101, *et seq.*, which was lower than the amount
projected in 2020. Detail on this adjustment can be found in the PAWC Exhibit No. 3-C.

19 Q. Please describe the Rate Base deduction for the Negative Deferred Tax Credit.

A. In accordance with PAWC Tariff Water-PA P.U.C. No. 5, page 40 (Negative Surcharge
for Deferred Tax Credit), the Company will file, on April 30, 2022, a reconciliation of the
difference between the total credits provided to customers for bills rendered through
December 31, 2021 and the amount of \$9,560,000. The calculated difference of \$208,073,

1 plus applicable interest, has been included as a deduction to rate base. The Company is 2 seeking approval of this adjustment in this proceeding, along with an amortization period 3 of three years.

4

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0.

Please explain how the depreciated original cost of net plant for the FPFTY was determined.

6 A. Net plant is the total utility plant in service less CIAC, CAC, and excluded property. Depreciated original cost is the original cost less accrued depreciation. The original cost 7 8 of net utility plant as of the end of the FPFTY consists of the amount recorded in PAWC's 9 plant accounts at December 31, 2021, plus projected additions, net of retirements, through 10 December 31, 2022 and 2023, respectively less CIAC and CAC. The original cost of plant 11 in service at December 31, 2021, and the original cost of claimed additions and retirements, 12 shown by detailed plant account, are set forth in Exhibit No. 3-A under the respective rate 13 base sections for each revenue requirement study. Mr. Aiton discusses the more significant 14 plant additions in his direct testimony (PAWC Statement No. 3).

15 I will address the water and wastewater acquisitions that the Company has consummated 16 since its last base rate case. The accrued depreciation at December 31, 2022 and 2023, respectively, related to net plant in service was determined by the Company's depreciation 17 18 consultant, John J. Spanos (PAWC Statement No. 11), and is shown in Exhibit No. 3-A 19 under the respective rate base sections for each revenue requirement study.

20 **Q**. Do the continuing property records, as maintained by the Company and augmented 21 by depreciated original cost studies and fair market value appraisals for acquisitions, 22 accurately reflect additions and retirements to plant in service?

1 A. Yes, they do. For the fair market value acquisitions of Valley Township water and 2 wastewater systems and the Borough of Royersford, the Company used the reproduction 3 cost and associated accumulated depreciation shown in the appraisal provided by the 4 Company's Utility Valuation Expert ("UVE") in each respective acquisition proceeding 5 (Docket Nos. A-2020-3019859, A-2020-3020178, and A-2020-3019634). Because the 6 reproduction cost net of accumulated depreciation was greater than the ratemaking rate 7 base approved by the Commission in each case, the Company scaled the reproduction cost 8 and associated accumulated depreciation of each acquisition to equal the ratemaking rate 9 base approved by the Commission. The Journal Entries associated with each fair market 10 value acquisition are provided in Exhibit No. 3-C. Preliminary depreciated original cost 11 studies were completed and filed with the Commission for the planned acquisitions of 12 Foster Township wastewater assets, and Creekside Homeowner's Association water 13 system, Docket Nos. A-2022-3031020 and A-2021-3028676, respectively. For the planned 14 fair market value acquisition of Upper Pottsgrove Township wastewater assets, the 15 Company's filing reflects the utility plant in service and depreciation reserve based on the 16 appraisal provided by the Company's UVE, Docket No. A-2020-3021460. The 17 Company's filing for the future fair market value acquisition of the City of York 18 wastewater assets reflects the net value of the assets at the ratemaking rate base agreed to 19 by the parties in the Joint Petition for Approval of Unanimous Settlement of All Issues, 20 filed with the Commission on February 1, 2022, Docket No. A-2021-3024681. 21 Are the data shown on the Company's continuing property records an accurate basis Q.

A. Yes, they are.

22

for developing the original cost of property?

1	Q.	Do the Company's rate base claims include the cost of water and wastewater assets
2		that were acquired since the Company's last base rate case?
3	А.	Yes, the Company's rate base claims include the depreciated cost of assets acquired since
4		the Company's last base rate case, which includes the water assets acquired from Valley
5		Township ⁵ and the wastewater assets of: (1) the Borough of Royersford; and (2) Valley
6		Township. Exhibit No. 3-A provides a list of the Commission orders approving each of
7		the acquisitions listed above.
8	Q.	Do the Company's rate base claims include the cost of water and wastewater assets
9		that are to be acquired during the pendency of this proceeding?
10	A.	Yes, the Company's rate base claims include the cost of water assets to be acquired from
11		Creekside Homeowner's Association and the wastewater assets to be acquired from Upper
12		Pottsgrove Township, Foster Township and City of York.
13	Q.	Has the Company made any adjustments to its historic test year end CIAC and CAC
14		balances?
15	А.	Yes, it has made adjustments to those balances for its Water Operations, Wastewater SSS
16		General Operations, and Wastewater CSS Operations. The December 31, 2021 CIAC
17		balance for Water Operations has been increased to reflect \$1,294,592 of additional
18		contributions projected to be received through the end of the FPFTY. The CAC balance
19		has been adjusted to reflect \$7,545,408 of additional advances projected to be received
20		through the FPFTY, and decreased for \$5,000,000 of refunds anticipated to be paid during
21		2022 and 2023 with respect to customer advances received in prior years.

⁵ The Company's rate base claims do not include the cost of water assets acquired from SLIBCO Utilities for \$1.00. However, the Company's rate base claims do include the transaction and closing costs associated with acquiring the SLIBCO Utilities assets, as described above.

1		For the Wastewater SSS General Operations, the December 31, 2021 CIAC balance has
2		been increased to reflect \$674,678 of additional contributions projected to be received
3		through the FPFTY. In addition, \$2,173,197 of contributions associated with the planned
4		Foster Township acquisition has been included for the FTY.
5		For the Wastewater CSS Operations, the December 31, 2021 CIAC balance has been
6		increased to reflect \$32,000 of additional contributions projected to be received through
7		the FPFTY.
8		These calculations are shown in Exhibit No. 3-A under the respective rate base sections for
9		the revenue requirements of Water Operations, Wastewater SSS General Operations, and
10		Wastewater CSS Operations.
11		The Company does not anticipate any changes to the CAC balances for its Wastewater SSS
12		General Operations or Wastewater CSS Operations. In addition, the Company does not
13		anticipate any changes to the CIAC and CAC balances for its remaining operations.
14		Therefore, no adjustments to the December 31, 2021 balances for those operations are
15		required.
16	Q.	Has the Company excluded from its rate base certain property recorded in its utility
17		plant accounts?
18	A.	Yes. The amount of \$1,558,014 has been excluded from the Company's rate base claim
19		for Water Operations as shown in Exhibit No. 3-A under the corresponding rate base
20		section. For the most part, the excluded amount represents the original cost of utility plant
21		in service for which the Company received relocation reimbursement payments from the
22		Commonwealth of Pennsylvania. The remainder of the excluded amount consists of

certain allowance for funds used during construction ("AFUDC") accruals that the
 Company agreed to remove from rate base pursuant to a stipulation approved in the
 Company's rate proceeding at Docket No. R-00932670.

4

Q. Please explain the addition to rate base for materials and supplies.

5 Α. In accordance with procedures previously approved by the Commission, the Company's 6 materials and supplies claims were determined by averaging the monthly balances of the 7 materials and supplies account for the thirteen months ended December 31, 2021. The 8 calculations of the materials and supplies claims are shown in Exhibit No. 3-A under the 9 respective rate base sections for each revenue requirement study. The Company's 10 materials and supplies claim for the Royersford WW Operations, Upper Pottsgrove WW 11 Operations, and York WW Operations were derived as follows: (1) monthly balances of 12 the materials and supplies accounts for PAWC's Wastewater SSS General Operations for 13 the thirteen months ended December 31, 2021 were summed and the total divided by the 14 number of customers in those wastewater districts to determine the average materials and 15 supplies balance per customer; and (2) the average materials and supplies balance per 16 customer was multiplied by the total number of customers served by the water and 17 wastewater systems. The calculation of this adjustment is shown in Exhibit No. 3-A under 18 the respective rate base sections for materials and supplies.

19

Q. Please explain the Company's claim for cash working capital.

A. The cash working capital requirement is calculated by multiplying the net lag days (revenue
 lag days less expense lag days) by the average operating expenses per day (total operating
 expenses / 365 days). All calculations have been made to two decimal places. In
 accordance with Commission policy, uncollectible accounts expense and amortizations

were subtracted from total operating expenses before performing the calculation. The
 calculation of the gross cash working capital requirement is shown in Exhibit No. 3-A
 under the respective rate base sections for cash working capital for each of the Company's
 revenue requirements.

5 **Q**.

How were the revenue and expense lags determined?

6 A. Revenue and expense lags were determined by a lead-lag study. The revenue lag consists 7 of three components: (1) the lag from the midpoint of the service period to the end of the 8 service period, i.e., the meter-read date; (2) the time required for bill preparation and 9 mailing; and (3) the lag in receipt of payment. The first component was calculated as 10 follows: the sum of the number of service days relative to each customer bill in the last 11 quarter of the HTY was calculated. That figure was divided by two to determine the 12 interval from the midpoint to the end of the service period. The average of the service days 13 for the period October through December 2021 was then computed, resulting in a service 14 lag period of 15.04 days.

15 The second component is billing lag. The billing lag of two days used for this calculation 16 was proposed by a witness for the Commission's Bureau of Investigation and Enforcement 17 and agreed to by the Company in a prior base rate case at Docket No. R-2013-2355276.

18 The third component, the collection lag, requires a further calculation to determine the 19 average length of time that revenues are outstanding before payment. This calculation was 20 performed as follows: (1) daily accounts receivable balances for the twelve months ended 21 December 31, 2021 were summed and the total divided by the number of days in 2021 to 22 determine the average accounts receivable balance per day; (2) the Company's total

1 revenue for the twelve months ended December 31, 2021 was divided by the number of 2 days in 2021 to determine the average revenue billed per day; and (3) the average accounts 3 receivable balance per day was divided by the average revenue billed per day. The result 4 of the division in (3), above, yields the number of days on average that billed revenue was 5 outstanding prior to receipt of payment, which in the study was 39.06 days. This is a 6 standard calculation used by other water utilities in Pennsylvania. Finally, 0.78 days of 7 "Lockbox Collection Lag" was added to the revenue lag, which represents the time 8 between the collection of customer remittances to a post office box and the deposit of those 9 funds into the Company's bank account. The total revenue lag for this study, when the 10 items above are combined, is 56.89 days.

11 The expense lag was based upon a comprehensive lag study. Using procedures approved 12 by the Commission in prior proceedings and data obtained from the Company's centralized 13 accounts payable system, samples of expense vouchers for each category of expense were 14 analyzed to determine the lag between the receipt of goods or services and the applicable 15 payment due date. A summary of the expense lags by category is shown in Exhibit No. 3-A 16 under the corresponding rate base section. These lag calculations reflect an addition for 17 "Check Float," which represents the average amount of time that it takes for a vendor to 18 deposit a payment from the Company. For the Labor and Service Company calculations, 19 an addition of 0.09 days was included, which has the same purpose as the "Check Float," 20 but is instead calculated by taking a weighted average of direct deposit and check payments 21 to employees. The detailed calculations of the revenue and expense lag days appear in the 22 response to Question No. FR V. 8 of the Commission's Standard Filing Requirements.

Q.

Please explain the addition to rate base for accrued and prepaid taxes.

2 A. This addition to rate base reflects the fact that, on balance, taxes are paid in advance. The 3 lead/lag in payment of Pennsylvania corporate net income tax is based on four equal 4 payments throughout the year. The General Assessment tax lead was calculated based 5 upon actual payment dates in 2021. The lead/lag day calculations for the payment of taxes 6 imposed by the Public Utility Realty Tax Act ("PURTA") and federal income tax were 7 based upon statutory payment schedules. The lag for local property taxes was determined 8 using the regular expense lag calculation, which was discussed above. Payments are made 9 by check, and the average payment was a lead of (31.87) days, adjusted to (22.09) when 10 The calculations of the lead/lag days for the Check Float was accounted for. 11 aforementioned taxes are set forth in Exhibit No. 3-A in the respective rate base sections 12 for each of the Company's revenue requirements. The net lead/lag days for each tax are 13 then applied to the pro forma tax amounts, as shown in the applicable section of Exhibit 14 No. 3-A, to calculate the overall working capital effect which, in this instance, is positive 15 for all operations. Thus, the average net lead in payment of these taxes constitutes an 16 addition to cash working capital requirements and, therefore, is reflected as a rate base 17 addition.

18

Please explain the addition to rate base for acquisition adjustments. Q.

19 A. There are two types of acquisition adjustments claimed by the Company in this case. The 20 first type represents utility plant acquisition adjustments ("UPAA"). The second type 21 represents acquisition transaction and closing costs. These are further broken down to 22 adjustments that were approved in prior base rate cases and adjustments that the Company 23 is proposing in this case. The applicable rate base claims and docket numbers are shown

1 on Exhibit No. 3-A under the rate base section entitled Acquisition Adjustments. Exhibit 2 No. 3-C provides additional support, including a copy of Appendix E of the Joint Petition 3 for Settlement at Docket No. R-2020-3019369, for those acquisition adjustments approved 4 in the Company's last base rate case. In this case, the Company is seeking approval of the 5 acquisition transaction and closing costs for the Valley Township water and wastewater 6 system acquisitions, the SLIBCO Utilities water system acquisition, and the Borough of 7 Royersford wastewater system acquisition. Additionally, the Company is seeking approval 8 of the estimated acquisition transaction and closing costs associated with the planned 9 acquisitions of the Creekside Homeowner's Association water system, and the Foster 10 Township, Upper Pottsgrove Township, and City of York wastewater systems.

Q. Please describe the adjustments made to the transaction cost balances approved in
 the last rate case for the Delaware Sewer Company and Borough of Kane wastewater
 acquisitions.

14 A. The total transaction and closing cost estimates at December 31, 2020 that were approved 15 by the Commission for the Delaware Sewer and Kane wastewater systems were reconciled 16 to the actual balances on the Company's books at the time of this filing. This resulted in a 17 reduction to the originally authorized balances by \$42,281 for Delaware Sewer and 18 \$323,559 for Kane. In addition, the Company is seeking approval to modify the original 19 40-year amortization period for Kane transaction costs to a 10-year period, given the 20 significant reduction to the overall balance. Supporting detail for these adjustments can be 21 found in the Company's Exhibit No. 3-A and Exhibit No. 3-C pages for Wastewater SSS 22 General Operations and Wastewater CSS Operations for Delaware Sewer and Kane, 23 respectively.

2

Q. Please explain the addition of receivership costs related to Winola Water Company to rate base for water?

3 The fifth addition to Water Operations, shown in Exhibit No. 3-A in the corresponding rate Α. 4 base section, is the unamortized balance of the Company's receivership costs related to 5 Winola Water Company. The Commission appointed the Company as receiver of Winola 6 Water Company in Docket No. P-2018-3006216. See Pa. Pub. Util. Comm'n v. Winola 7 Water Company, Docket No. P-2019-3006216 (November 29, 2018 Ex Parte Emergency 8 Order at Appendix A, Section 2(b)). Subsequently, in the Company's last base rate case, 9 see Docket No. R-2020-3019369, the Commission approved the amortization of the 10 Company's unamortized receivership costs incurred as of December 31, 2020. The 11 Company, in this case, is seeking approval to amortize \$145,165 in receivership costs that 12 were not included in the Company's claim for receivership costs in the last rate case due 13 to when the costs were incurred.

14 Q. Please explain the items that were deducted from rate base for the Company's water 15 and wastewater operations.

A. Two items were deducted from rate base for the Company's water and wastewater operations. The first deduction, which offsets cash working capital requirements, relates to the average net lag in payment of interest on long-term debt and dividends on preferred stock. The deduction was calculated using procedures previously approved by the Commission and is set forth in Exhibit No. 3-A in the corresponding rate base section for each of the Company's revenue requirements.

The second deduction is for accumulated deferred taxes as addressed by Company Witness
Melissa Ciullo in her direct testimony, PAWC Statement No. 8.

Q.

Were additional items deducted from rate base for the Company's water operations?

A. Yes. Four rate base deductions apply only to the Company's water operations. The first
item is unamortized investment tax credits generated prior to 1971. These amounts are
shown in Exhibit No. 3-A under the respective rate base sections. Investment tax credits
accrued in 1971, and thereafter, are amortized to income and are not permitted to be
deducted from rate base under the requirements of Section 46(f) of the Internal Revenue
Code.

8 Another item deducted from rate base for water operations, shown in Exhibit No. 3-A under 9 the respective rate base sections, is a thirteen-month average of extension deposits in 10 suspense. The Company requires applicants for water service to advance a portion of the 11 cost to construct main extensions needed to serve them under specified conditions, as more 12 fully set forth in the Company's tariff. At the completion of the project, accounting entries 13 are made to adjust the estimated costs of construction to the actual costs of construction. 14 The difference is recorded in the extension deposit in suspense account until it is either 15 refunded to the party that made the advance, or an additional amount owed is collected. In 16 its final Order at Docket No. R-891208, the Commission agreed with the Office of 17 Consumer Advocate ("OCA") that an average balance of such funds should be reflected in 18 rate base, and the Company has made this adjustment, shown in Exhibit No. 3-A, to comply 19 with that determination.

The third rate base offset for Water Operations comprises CIAC and CAC booked by
Citizens prior to its acquisition by PAWC. The Joint Petition for Settlement at Docket No.

1		R-2009-2097323 ("Citizens Joint Petition for Settlement"), as approved by the
2		Commission for ratemaking purposes, provided as follows:
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		(i) \$14,147,208, or 40%, of the December 31, 2009, balance of the net customer advances for which Citizens retained the refund liability upon the Company's acquisition of Citizens' water utility assets will be deemed deducted from the Company's rate base; (ii) \$8,895,830 (100%) of the December 31, 2009 balance of the net contributions in aid of construction the OCA proposed to attribute to PAWC from its acquisition of Citizens' water assets will be deducted from PAWC's rate base; (iii) in future base rate cases, the foregoing balances, adjusted to reflect accumulated amortization, will be deducted for ratemaking purposes until such balances are fully amortized; and (iv) the applicable depreciation rate for PAWC's transmission and distribution mains will be used to calculate the amortization of such balances for ratemaking purposes to offset the portion of depreciation expense on gross plant in service that is related to these advances and contributions.
20		The adjustments that were made to implement the terms of the Citizens Joint Petition for
21		Settlement, set forth above, are detailed in Exhibit No. 3-A under the rate base section.
22		The final rate base deduction is for the Commission approved amortization associated with
23		an equipment discount.
24	Q.	Do the adjustments explained above constitute all of the adjustments necessary to
25		establish the Company's rate base?
26	А.	Yes, they do.
27		Depreciation And Amortization Expense
28	Q.	Have adjustments been made to the annual depreciation expense recorded on the
29		Company's books at December 31, 2021?

1	A.	Yes. Adjustments to booked amounts were made to a full annual amount of the
2		depreciation accrual for the Company's plant in service as of December 31, 2021 and for
3		plant to be added during 2022 and 2023. The annual accrual was determined largely on a
4		Straight-Line Average Remaining Life basis. The adjustments to reflect the annual accrual
5		for depreciation related to plant in service in 2021, 2022, and 2023 are shown in Exhibit
6		No. 3-A under the respective rate base sections, and, as noted previously, are explained
7		and sponsored by Mr. Spanos.
8		For Water Operations, a reduction to depreciation was made for CIAC and CAC associated
9		with the Company's acquisition of the water assets from Citizens, Joint Petition for
10		Settlement at Docket No. R-2009-2097323.
11	Q.	Please explain the Company's claim for "Amortizations" that appears in Exhibit
12		No. 3-A.
13	A.	The amortization claims for each of the revenue requirements are described as follows and
14		are reflected on Exhibit No. 3-A under the respective rate base sections:
15		For Water Operations, nine amortization claims are made:
16		(1) amortization of the UPAA for PG&W and for other UPAA amounts as
17		previously approved by the Commission which include the Commission-approved utility
18		plant acquisition adjustments associated with the Company's acquisition of the water assets
19		of the former PG&W, Lake Spangenberg Water Company, the Fernwood Community
20		Water System, the Olwen Heights Water Service Company, Inc., Indian Rocks Property
21		Owners Association, North Fayette County Municipal Authority, the Wildcat Park
22		Corporation, and the Municipal Authority of the Borough of Turbotville, plus the proposed
23		negative UPAA adjustment for the planned Creekside Homeowner's Association

1	acquisition. The Company is proposing to extend the amortization period for those
2	amortizations which are currently due to end at December 31, 2023, or January 28, 2024,
3	in order to reflect a more appropriate ongoing annual level of expense in proposed rates.
4	The detail of the amortizations can be found in Exhibit No. 3-A. Additionally, the
5	Company has included the previously Commission approved amortizations of the
6	transaction and closing costs associated with the acquisitions of the Borough of Turbotville
7	and Steelton Borough Authority, as well as the proposed amortization of the transaction
8	and closing costs associated with the water system acquisitions of Valley Township and
9	SLIBCO Utilities, and the planned acquisition of Creekside Homeowner's Association as
10	part of this claim;
11	(2) amortization of equipment discount, as previously described in my testimony;
12	(3) amortization of SFAS 109 regulatory assets – AFUDC as previously approved
13	by the Commission;
14	(4) amortization of receivership costs for Winola Water Company, Docket No. R-
15	2020-3019369 as previously discussed in my testimony;
16	(5) amortization of the TCJA Stub Period and deferred taxes, as previously
17	discussed in my testimony and in the direct testimony of Melissa Ciullo (PAWC Statement
18	No. 8). The Company is proposing a new three-year amortization period for the TCJA
19	Stub Period December 31, 2022 balance, which is currently due to end at January 28, 2024,
20	in order to reflect a more appropriate ongoing annual level of expense in proposed rates.
21	Additionally, as previously discussed in my testimony, the Company has included the
22	three-year amortization of the reconciliation of the negative surcharge for deferred tax

1	credits as required under the PAWC Tariff Water - PA P.U.C. No. 5, page 40. This
2	reconciliation covers the period from January 28, 2021 through December 31, 2021;
3	(6) Commission-approved amortization of DEP Safe Drinking Water fees,
4	reflecting an updated amortization period of three years on the balance as of December 31,
5	2022;
6	(7) post-in-service AFUDC for new plant additions made after the acquisition of
7	Steelton Borough Authority. See 66 Pa.C.S. §1329(f);
8	(8) deferred depreciation associated with the Steelton acquisition (see 66 Pa.C.S.
9	§1329(f)), as approved at Docket No. R-2020-3019369. The Company also proposes a
10	new three-year amortization period, similar to the TCJA Stub Period; and
11	(9) PAWC's claimed amortization of the deferred financial impacts authorized in
12	the Commission's September 15, 2021 Order at Docket No. P-2020-3022426 associated
13	with the COVID-19 emergency response, and as discussed by Company witness Cas Swiz
14	in PAWC Statement No. 9.
15	For Wastewater SSS General Operations, five amortization claims are made:
16	(1) Commission-approved utility plant acquisition adjustments associated with the
17	Company's acquisition of the wastewater assets of the former Clean Treatment Sewage
18	Company, the Borough of New Cumberland, Delaware Sewer Company, and the Borough
19	of Turbotville, as well as the amortization of the acquisition adjustment for the planned
20	acquisition of Foster Township, Docket No. A-2021-3028676. For the former Clean
21	Treatment Sewage Company, the Company is proposing a new three-year amortization
22	period, which is currently due to end on December 31, 2023, in order to reflect a more
23	appropriate ongoing annual level of expense in proposed rates. Additionally, the Company

has included the previously approved amortizations of the transaction and closing costs
 associated with the acquisitions of the Borough of Turbotville, Sadsbury Township, Exeter
 Township, and Delaware Sewer Company. In addition, the Company is claiming
 amortization of the acquisition transaction and closing costs associated with the Valley
 Township acquisition and the planned acquisition of the wastewater assets of Foster
 Township;

(2) Commission-approved amortization of post-in-service AFUDC for new plant
additions made after the acquisition for Sadsbury Township and Exeter Township. The
Company also proposes a new three-year amortization period, similar to what was
proposed for the amortization of the Steelton Borough Authority post-in-service AFUDC.
Additionally, the Company claims the amortization of post-in-service AFUDC for new
plant additions made after the acquisition of Valley Township, Docket No. A-20203020178;

(3) Commission-approved amortization of deferred depreciation associated with
the acquisitions of Sadsbury Township and Exeter. The Company also proposes a new
three-year amortization period, similar to what was proposed for the amortization of the
Steelton Borough Authority deferred depreciation. Additionally, the Company claims the
amortization of deferred depreciation associated with the acquisition of Valley Township,
Docket No. A-2020-3020178;

(4) PAWC's claimed amortization of the deferred financial impacts authorized in
the Commission's September 15, 2021 Order at Docket No. P-2020-3022426 associated
with the COVID-19 emergency response, and as discussed by Company witness Cas Swiz
in PAWC Statement No. 9; and

1	(5) amortization of the TCJA Stub Period and deferred taxes, as described above.
2	For Royersford WW Operations, three amortization claims are made:
3	(1) acquisition transaction and closing costs associated with the Company's
4	acquisition of the wastewater assets of Royersford Borough, Docket No. A-2020-3019634;
5	(2) post-in-service AFUDC for new plant additions made after the acquisition; and
6	(3) deferred depreciation associated with the acquisition.
7	For Upper Pottsgrove WW Operations, the only amortization claim being made is
8	the acquisition transaction and closing costs associated with the Company's planned
9	acquisition of the wastewater assets of Upper Pottsgrove Township, Docket No. A-2020-
10	3021460. These costs are based on the estimates at the time of the application filing and
11	will be updated with actual costs after closing.
12	For York WW Operations, three amortization claims are made:
13	(1) acquisition transaction and closing costs associated with the Company's
14	planned acquisition of the wastewater assets of the City of York, Docket No. A-2021-
15	3024681. These costs are based on the estimates at the time of the application filing and
16	will be updated with actual costs after closing;
17	(2) post-in-service AFUDC for new plant additions made after the acquisition; and
18	(3) deferred depreciation associated with the acquisition.
19	For Wastewater CSS Operations, three amortization claims are made:
20	(1) Commission-approved acquisition transaction and closing costs associated with
21	the Company's acquisitions of the wastewater assets of Sewer Authority of the City of
22	Scranton, the Municipal Authority of the City of McKeesport, and the Borough of Kane
23	Authority;

1		(2) deferred depreciation associated with the acquisition of the Municipal Authority
2		of the City of McKeesport. The Company proposes a new three-year amortization period,
3		similar to what was proposed for the amortization of the Steelton Borough Authority
4		deferred depreciation, and
5		(3) PAWC's claim of amortization of deferred costs associated with a stormwater
6		fee feasibility study, as described by Company Witness Bruce Aiton (PAWC Statement
7		No. 3).
8	Q.	Please describe the adjustments made to the Company's December 31. 2020
9		amortization expense balances approved by the Commission at Docket No. R-2020-
10		3019369.
11	A.	First, and as previously discussed in my testimony, the Company adjusted the transaction
12		cost balances approved for the Delaware Sewer and Kane wastewater acquisitions and the
13		Winola water system acquisition. This resulted in an adjusted annual amortization expense
14		for each system, as reflected in Exhibit Nos. 3-A and 3-C for Wastewater SSS General,
15		Wastewater CSS Operations, and Water Operations. Next, the Company adjusted the post-
16		in-service AFUDC and deferred depreciation costs associated with the Steelton water
17		acquisition, and the Sadsbury, Exeter and McKeesport wastewater acquisitions, to
18		reconcile to the actual balances on the Company's books at December 31, 2020 compared
19		with the estimated December 31, 2020 balances that had previously been approved by the
20		Commission. The adjustment to the McKeesport post-in-service AFUDC balance at
21		December 31, 2020 resulted in a full amortization of the remaining balance at
22		December 31, 2022. Exhibit No. 3-C includes a schedule detailing these adjustments.

Property Taxes and General Assessments

2

Q.

Please explain the adjustments to claims for property taxes.

3 A. PURTA tax is imposed on certain real property dedicated to utility water service in 4 Pennsylvania based upon the fair market value of such property, as determined by applying 5 per-county common level ratios to the assessed values of the property. In Pennsylvania, 6 property taxes imposed on real property not subject to PURTA are administered at the 7 county level. In every county, the sum of local tax rates (school taxes, municipal taxes and 8 county taxes) is applied to the assessed value of each property. However, each county has 9 its own system for determining assessed value. The Company's claims for its Water 10 Operations, Wastewater SSS General Operations, and Wastewater CSS Operations were 11 calculated based on the ratio of actual 2021 tax liability to tax base. This ratio was applied 12 to the Company's pro forma claim for property tax eligible utility plant at December 31, 13 2022 and December 31, 2023. These calculations are detailed in Exhibit No. 3-A, 14 Pennsylvania Property Tax under the section for Taxes, Other Than Income. The 15 Company's claim for its Royersford, Upper Pottsgrove and York WW operations is 16 included as part of the Misc. Expense Adjustments in Exhibit No. 3-A, and are described 17 by Company Witness Lori O'Malley (PAWC Statement No. 5).

18

Q. Please explain the adjustment for General Assessments.

A. The General Assessments are imposed on regulated utilities to provide funding for the
Commission and Damage Prevention Committee, the Office of Consumer Advocate, and
the Office of Small Business Advocate. The General Assessment rates are applied to a tax
base consisting of revenue from water and wastewater service. To calculate pro forma
General Assessments, the current assessment rates from the fiscal year July 1, 2021 to

June 30, 2022 were applied to a tax base consisting of pro forma sales revenue under present and proposed rates as shown on Exhibit No. 3-A under the respective rate base sections. The Company will update these adjustments with the new General Assessment rates once they are available. Backup for the calculation of these adjustments is provided in the Company's Exhibit No. 3-A under the respective rate base sections.

6

Rate Case and Regulatory Expense

7 Q. Please explain the adjustment for regulatory and rate case expense.

8 A. These adjustments are being made to reflect and normalize the costs related to this rate case
9 and to recover the annual amounts necessary to amortize other regulatory expenses that
10 were incurred by the Company with the Commission's prior approval.

11 The costs for preparing and litigating this rate filing consist of the costs associated with the 12 Company's consultants, outside legal counsel and any charges from the AWWSC revenue 13 analytics team. Costs for customer communications, mailings, legal notices, administrative 14 fees, and miscellaneous expenses associated with this application are also part of the 15 regulatory expense adjustment. Some of these costs have already been incurred. The 16 Company's claim reflects its total costs, both incurred to date and estimated to be incurred 17 through the completion of this case. PAWC proposes that these costs be normalized over 18 a two-year period, which reflects the period of time since the Company's last base rate 19 filing. Detail of the cost categories included in the projected rate case expense can be found 20 in the Rate Case Expense section of Exhibit No. 3-B.

Q. Please identify the additional claims for regulatory expense the Company is making in this case.

1 A. The Company is claiming for recovery three other categories of regulatory expense. First, 2 the Company is continuing the ten-year amortization of the costs it incurred for a Customer 3 Class Demand Study performed in accordance with the terms of the Commission-approved 4 settlement of PAWC's rate proceeding at Docket No. R-2011-2232243. The costs of that 5 study were approved for recovery via a ten-year amortization, beginning in January 2018, 6 as part of the Company's 2017 base rate case at Docket No. R-2017-2595853. Second, the 7 Company is continuing the ten-year amortization of the costs incurred for the preparation, 8 filing, litigation and resolution by settlement of the Company's petition at Docket 9 No. P-2017-2606100 for approval of a plan to replace customer-owned lead service pipes. 10 Those costs were approved for recovery via a ten-year amortization, beginning in January 11 2021, as part of the Company's last base rate case, Docket No. 2020-3019369. Third, the 12 Company is claiming for recovery of the costs associated with performing a stormwater 13 fee feasibility study, which was conducted in order to assess potential recovery and rate 14 methodology options for stormwater costs of combined sewer systems, as required under 15 the approved settlement at Docket No. R-2020-3019369. Company witness Nathan Walker 16 describes the study in more detail as part of PAWC Statement No. 14. The Company 17 proposes to amortize those costs over three years beginning on the effective date of the 18 base rates established in this case.

19

Q. Has the Company allocated the pro forma rate case and regulatory expense?

A. Yes. The Company uses an allocation factor based on customer counts to apportion the
 projected rate case and regulatory expense to the individual water and wastewater
 operations for which separate revenue requirement studies have been provided in Exhibit
 No. 3-A. The allocation factor will be explained in more detail below. The Rate Case

1		Expense section of Exhibit No. 3-B shows the costs allocated to each separate revenue
2		requirement study from applying this allocation factor.
3		Allocation of Costs Between Water and Wastewater Operations
4	Q.	Please describe the Company's approach to allocating costs between water and
5		wastewater operations in this rate proceeding.
6	A.	The Company is proposing to allocate costs between water and wastewater operations
7		utilizing the same allocation methodology the Company used in its last base rate case at
8		Docket No. No. 2020-3019369.
9	Q.	Please describe the cost categories that fall under the term "common costs".
10	A.	The costs classified as "common costs" include Service Company expenses (including
11		postage and customer accounting costs), insurance other than group, rate case expense and
12		regulatory expense, and the costs associated with the PAWC Corporate Headquarters
13		(Capital Campus) located in Mechanicsburg, Pennsylvania.
14	Q.	What is the methodology used by the Company to allocate common costs between its
15		water and wastewater operations?
16	A.	The Company allocates the above categories based on four different factors, as shown in
17		Schedule SDG-1.
18		Factor 1 – Customers (for Service Company and Customer Accounting). This factor was
19		calculated based on the number of customers as of December 31, 2021. In allocating costs
20		to PAWC, the Service Company identifies customers that receive both water and
21		wastewater service from the Company. These accounts are not treated as two separate
22		customers in the customer-count used to allocate Service Company costs. Instead, each

dual service customer is assigned the value of 1.05 in the count of total Company customers
 and the value of 0.05 in the count of wastewater customers. PAWC used the same
 convention in allocating costs between water and wastewater operations. The dual service
 customers counted in the manner explained above plus wastewater-only customers are
 summed to arrive at the wastewater customer count used for the customer-based allocation.

- 6 Factor 2 – Customers (for Rate Case and Regulatory Expense). This calculation is based 7 on the total number of customers for each water or wastewater system and allows for 8 subsets of allocations based on water and wastewater SSS, water and wastewater SSS and 9 wastewater CSS customers. The breakdown of this level is necessary, as there are certain 10 rate case expense components which only relate to specific customer types. For example, 11 cost of service and rate design activities are completed for water and wastewater SSS 12 customers, but separately for wastewater CSS customers. The application of this allocation 13 factor is shown in the Rate Case Expense section of Exhibit No. 3-B.
- <u>Factor 3 Customers (for PAWC's Corporate Headquarters (Capital Campus))</u>. This
 allocation is based on each water or wastewater system's percentage of the Company's
 total customers as of December 31, 2021.
- Factor 4 Depreciated Cost of Utility Plant in Service (for Insurance Other Than Group).
 This factor is based on the depreciated original cost of total net utility plant in service as of
 December 31, 2021 for each water or wastewater system. The percentages of utility plant
 are applied to the pro forma Insurance Other Than Group expenses claimed by the
 Company to determine the portion of total expenses allocated to water and wastewater

1		operations. The Company's expense for Insurance Other than Group consists of property,
2		vehicle and general liability, which closely aligns with plant assets.
3		Proposed Water and Wastewater Tariffs
4	Q.	Please discuss the proposed changes to the Rules and Regulations shown in the
5		proposed Water Tariff.
6	A.	The Company is proposing changes to the Rules and Regulations in its Water Tariff, which
7		include the following:
8		1. The Company expands the terms and conditions under private fire service-
9		unmetered regarding the responsibility for maintenance of qualified private fire
10		hydrants.
11		2. The Company modified Distribution System Improvement Charge applicability to
12		reflect its planned acquisition of the Creekside Homeowner's Association water
13		system.
14		3. The Company is eliminating the Negative Surcharge for Deferred Tax Credit and
15		the Recoupment Surcharge.
16		4. The Company's low-income discounts have been modified to a tiered discount
17		structure, as discussed in the testimony of Charles Rea, PAWC Statement No. 10.
18		5. Regarding Rule 2.16 Service Pipe, the Company proposes an updated definition
19		describing lead service pipe in order to comply with the new Lead and Copper Rule,
20		as further discussed by Company witness Mr. Aiton in PAWC Statement No. 3.
21		6. The Company adds a new Rule 3.6 Owner or Landlord Responsibility for Service,
22		proposing that if a building is master metered, the Company may require the
23		building owner or landlord to establish a single account for the building at the

1		master meter in the name of the building owner or landlord, even where there are
2		existing meters for individual tenants behind the master meter.
3	7.	The Company adds a new Rule 3.7 Acquired Customers, proposing that upon
4		acquisition of a water system where the Company is already a wastewater service
5		provider, the Customer of record for water service shall be the same as the
6		Customer of record for wastewater service, where applicable.
7	8.	Regarding Rule 4.9.1 Replacement of Lead Service Pipes, the Company proposes
8		to increase the annual replacement of lead service pipes to 5,400 and to change the
9		budget for service pipe replacements from \$6 million to \$15 million, as further
10		discussed by Company witness Mr. Aiton in PAWC Statement No. 3.
11	9.	Regarding Rule 5.4 Outside Meter Installations (Meter Box/Vaults), the Company
12		proposes to add the right to relocate a meter box/vault for a Customer's property.
13	10	. Regarding Rule 7.2 Prior Company Debts, the Company proposes to change the
14		language regarding what the Company uses as evidence of an Applicant's or
15		Customer's liability for any indebtedness to the Company for previous service.
16	11	. Regarding Rule 7.9 Denial of Service, the Company proposes to add clarification
17		that the denial of service provision applies only to residential customers.
18	12	. Regarding Rule 8.5 Application for Public Fire Hydrant Service, the Company
19		proposes to add WBS Element and Project Description to the Public Fire Hydrant
20		Agreement, along with updates to the signature lines.
21	13	. Regarding Rule 10.6 Payment Arrangement, the Company proposes to include
22		clarifying language that the payment arrangement provision applies only to
23		residential customers.

1	14. Regarding Rules 12.5 Termination of Service for Nonpayment of Bills and 12.7
2	Protection from Abuse Order, the Company proposes to add language to clarify that
3	termination of service for nonpayment and protection from abuse order provisions
4	are applicable only to residential customers.
5	15. Regarding Rule 15.1 Liability for Damages, the Company proposes to modify the
6	limitation of liability requirements and clarify that this limitation of liability shall
7	not apply to Company conduct which is found to be willful, wanton or reckless,
8	consistent with the Commission's final order in the Company's last base rate case.
9	16. Regarding Rule 21.2 Application for Qualified Private Fire Hydrant ("QPFH"), the
10	Company proposes to adopt "clean-up" changes to the QPFH Agreement, adding
11	WBS Element, Project Description, Premise Number, Premise Description, and
12	Business Partner Number, and edits to the signature line. The Company further
13	proposes to include "successors, agents and assigns" to the definition of an
14	Applicant for a QPFH and to add an option for developers to install QPFHs
15	pursuant to a Water Facilities Line Extension Agreement.
16	17. Regarding Rule 26.4 Municipal Class of Service, the Company proposes to change
17	the language to clarify the eligibility for public schools and colleges.
18	18. The Company proposes to include a new Revenue Stabilization Mechanism ("RSM
19	") as further discussed by Company witnesses Everette and Rea in Statement Nos. 1
20	and 10, respectively.

1	Q.	Please discuss the proposed changes to the Rules and Regulations shown in the
2		proposed Wastewater Tariff.
3	A.	The Company is proposing changes to the Rules and Regulations in its Wastewater Tariff,
4		which include the following:
5		1. The Company proposes to correct the service locations in the Kane District to
6		include portions of Wetmore Township, as approved by the Commission's June 18,
7		2020 Order at Docket No. A-2019-3014248 and confirmed by Secretarial Letter
8		dated October 28, 2020 approving Supplement No. 23 to Tariff Wastewater-PA
9		P.U.C. No. 16.
10		2. The Company proposes to add "by the Company" on pages 11.2, 11.3, 11.5, 11.6,
11		and 11.10 to permit customers who are metered by non-Company water providers
12		to be charged a flat rate. Receipt of metered consumption data from third parties
13		has proven to often be untimely and unreliable. It also requires a manual process
14		and significant resources to administer.
15		3. The Company's low-income discounts have been modified to a tiered discount
16		structure, as discussed in the testimony of Charles Rea, PAWC Statement No. 10.
17		4. Under the Schedule of Rates and Miscellaneous Fees and Charge, the Company
18		proposes to permit the Company, at its option, to enter into a negotiated Service
19		Agreement that limits the application of the capacity reservation fee for flow
20		stabilization reasons or to attract and retain bulk customers which have a viable
21		competitive alternative to service by the Company.
22		5. Under the Schedule of Rates Miscellaneous Fees and Charges, the Company
23		proposes to delete the references to special capacity charges applicable to Valley

1	and Sadsbury Townships. Also under this section, the Company proposes to
2	include a definition of the application of the capacity reservation fee for bulk
3	customers in the Company's York wastewater service territory.
4	6. Regarding Section A.26 Equivalent Dwelling Units (EDU), the Company proposes
5	modifications to the equivalent dwelling unit definition.
6	7. Regarding Section C.1 Service Application Required, the Company proposes to add
7	account name requirements for wastewater customers. Similarly, the Company
8	proposes a new Section C.5, adding Owner or Landlord Responsibility for Service.
9	8. The Company adds a new Section C.6 Acquired Customers, proposing to clarify
10	that acquired wastewater customers should be the same customer of record as for
11	water service, where applicable.
12	9. With respect to Sections E.5 and E.7, the Company proposes to add language to
13	clarify that termination of service for nonpayment and protection from abuse order
14	provisions are applicable only to residential customers.
15	10. With respect to Section F.7, the Company proposes to clarify that the payment
16	arrangement provision applies only to residential customers.
17	11. The Company adds a new Section F.8, proposing to add Termination of Free
18	Service Under Certain Contracts and Other Instruments.
19	12. Regarding Section G.2 Prior Company Debts, the Company proposes to change the
20	language clarifying what the Company uses as evidence of an Applicant's or
21	Customer's liability for any indebtedness to the Company for previous service.
22	13. Regarding Section G.6 Denial of Service, the Company proposes to clarify that the
23	denial of service provision applies only to residential customers.

1 14. Regarding Section I.2, the Company proposes deleting the provision related to 2 liability for damages and combining with Section Q. 3 15. Regarding Section Q Liability of Company (General), the Company proposes to 4 modify the limitation of liability requirements and clarify that this limitation of 5 liability shall not apply to Company conduct which is found to be willful, wanton 6 or reckless, consistent with the Commission's final order in the Company's prior 7 base rate case. 8 16. The Company is proposing several changes to the Industrial Pretreatment Program 9 ("IPP") rules, which are incorporated in Sections A, C, E, T, U, V and W of the 10 Wastewater Tariff, in order to better align with the Environmental Protection 11 Agency's Model Pretreatment Ordinance and to promote consistent IPP 12 requirements throughout the Company's service territory. 13 17. The Company proposes to include a new RSM as further discussed by Company 14 witnesses Everette and Rea in Statement Nos. 1 and 10, respectively. 15 **Q**. Has the Company provided a redlined version of the proposed tariffs? 16 Yes, the Company has provided a redlined version of its proposed tariffs showing all A. 17 changes made relative to its current Water and Wastewater Tariffs, which include the changes to the rules described above, the Company's proposed rate changes, and the 18 19 consolidation of rate zones, discussed in more detail in the testimony of Charles Rea, 20 Statement No. 10.

Rate Structure and Rate Design Proposal

2 Q. Please discuss the Company's rate zones in effect following the last base rate case.

A. A large majority of the Company's customers are now being billed under the same set of
rates for metered service. This consolidation represents the continued implementation of
the Commission-approved concept of Single Tariff Pricing. Water Rate Zone 2 (Winola),
Rate Zone 3 (McEwensville), Rate Zone 4 (Turbotville), and Rate Zone 5 (Steelton)
continue to have separate rate schedules.

Additionally, Wastewater Rate Zone 2 (New Cumberland), Rate Zone 3 (Scranton), Rate
Zone 4 (Kane), Rate Zone 5 (Franklin), Rate Zone 6 (McKeesport), Rate Zone 7
(Sadsbury), Rate Zone 8 (Turbotville), and Rate Zone 9 (Exeter) continue to have separate
rate schedules.

12 Q. Please summarize the rate zones that have been created since the last rate case.

A. Since the last case, the following water rate zones have been created through acquisitions: Zone 6 (Valley) and Zone 7 (SLIBCO). The following wastewater zones have been created through acquisitions: Zone 10 (Royersford) and Zone 11 (Valley). The Company will, upon completion of the planned acquisitions I described previously in my testimony, add an additional water rate zone for the Creekside water acquisition and an additional three wastewater rate zones for the Foster, Upper Pottsgrove, and York wastewater system acquisitions.

Q. Does the Company propose the consolidation of water and wastewater rates in this proceeding?

A. Yes. The Company proposes consolidation of certain water and wastewater rate zones and
changes to the current water and wastewater rate structure. Please refer to the direct
testimony of Company witness Charles Rea (Statement No. 10) for a detailed explanation
of the Company's proposals.

- Q. Did the Company employ any of the authority provided by amendments to the Public
 8 Utility Code made by Act 11 of 2012 in developing its rate design in this case?
- 9 A. Yes, in this case the Company is proposing to incorporate wastewater revenue requirements
 10 into its water revenue requirement. Combining water and wastewater revenue
 11 requirements and the resulting rate design are discussed in the direct testimony of Company
 12 witness Ashley Everette (PAWC Statement No. 1) and the direct testimony of Company
 13 witness Charles Rea (PAWC Statement No. 10).

14 Q. Please summarize the Company's commitments regarding rate increases for certain 15 acquisitions.

A. The following systems acquired by the Company in 2016 are subject to rate increase
 requirements or limitations: The Borough of New Cumberland wastewater system, which
 is part of the Company's Wastewater SSS General Operations, and the Scranton
 wastewater system, which is part of the Company's Wastewater CSS Operations.

In the New Cumberland application proceeding at Docket No. A-2016-2544151, the Commission approved a settlement that provided the following guidelines regarding the increases that the Company would propose for this system:

1 2 3 4 5 6	In PAWC's second and third base rate filings following closing of the Transaction, PAWC shall propose revenue allocations and rate structures which equalize, in a gradual manner, the wastewater base rates for System customers with PAWC's system average wastewater base rates (Rate Zone 1) by the effective date of rates resulting from the respective second and third base rate filings following closing of the Transaction. ⁶
7	As part of the resolution of the Company's last base rate case, the New Cumberland service
8	charge was equalized with the Zone 1 service charge and the New Cumberland block rate
9	structure was consolidated into a single volumetric rate. The current filing is the third base
10	rate case filing following the close of the New Cumberland transaction. In compliance
11	with the above-referenced Settlement, PAWC proposes to move the rates for the New
12	Cumberland system to equal the Rate Zone 1 rates in this case.
13	In the Scranton application proceeding, the Commission approved the Amended Asset
14	Purchase Agreement, which provided that PAWC would not propose rate increases that
15	would be equal to an amount greater than a 1.9% Compounded Annual Growth Rate
16	("CAGR") increase in annual revenues over a ten-year period relative to the starting
17	amount of annual revenues. As part of the resolution of the Company's last base rate case,
18	revenues from the Company's Scranton operations were increased by 33.65%. The pro
19	forma revenues at present rates exceed the level of increase PAWC is permitted to propose
20	under the CAGR provision during the ten years following closing of the acquisition. As
21	such, and in compliance with the Settlement, the Company is not proposing an increase to
22	the wastewater rates of the Scranton system.

⁶ Application of Pennsylvania American Water Company for approval of 1) the transfer of substantially all of the Borough of New Cumberland's assets, properties and rights related to its wastewater collection and treatment system to PAWC; 2) the right of PAWC to begin to provide wastewater service to the Borough of New Cumberland and 3) for PAWC to provide wastewater service to three residential customers in Lower Allen Township, Cumberland County, Pennsylvania, Docket No. A-2016-2544151 (Joint Petition for Approval of Unanimous Settlement of All Issues filed on September 2, 2016 and approved by Order entered on October 27, 2016).

1	Q.	Please summarize the Company's commitments regarding rate increases for certain
2		acquisitions since the last rate case.
3	А.	The Royersford Wastewater, Valley Water, and Valley Wastewater systems were acquired
4		by the Company in 2021. Additionally, the Company expects to close on its acquisition of
5		the Upper Pottsgrove wastewater assets, the Foster Township wastewater assets, and the
6		York City Sewer Authority assets in 2022.
7		In the Royersford, Valley Water and Wastewater, Upper Pottsgrove, and York application
8		proceedings, the Commission approved settlements, which are discussed below, providing
9		that the Company would propose certain rate increases for these systems. ⁷
10		Royersford
11		The Royersford Settlement (p. 6) provided for the following regarding the proposed rate
12		increase:
13 14 15 16		PAWC will propose to move the Royersford system to its cost of service or 1.7x the current Royersford wastewater rate, whichever is lower, based on a separate cost of service study for Royersford's system; provided, however, that PAWC will not be obligated to propose Royersford wastewater rates in excess of PAWC's

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17 proposed Rate Zone 1 system-average rates. The current average Royersford rate is 18 \$30.00 per month based on 3,630 gallons of monthly usage.

⁷ Royersford Order, supra note 1.; Application of Pennsylvania-American Water Company under Section 1102(a) of the Pennsylvania Public Utility Code, 66 Pa. C.S. § 1102(a), for approval of (1) the transfer, by sale, of substantially all of Valley Township's assets, properties, and rights related to its water treatment and distribution system to Pennsylvania-American Water Company, and (2) the rights of Pennsylvania-American Water Company to begin to offer or furnish water service to the public in Valley Township, and in a portion of West Caln and East Fallowfield Townships, Chester County, Pennsylvania and Application of Pennsylvania-American Water Company under Section 1102(a) of the Pennsylvania Public Utility Code, 66 Pa. C.S. § 1102(a), for approval of (1) the transfer, by sale, of substantially all of Valley Township's assets, properties, and rights related to its wastewater collection and conveyance system to Pennsylvania-American Water Company, and (2) the rights of Pennsylvania-American Water Company to begin to offer or furnish wastewater service to the public in Valley Township, and limited portions of East Fallowfield Township, Sadsbury Township, and West Caln Township, Chester County, Pennsylvania, Docket Nos. A-2020-3019859 and A-2020-30201778, respectively (Joint Petition for Approval of Unanimous Settlement of All Issues filed April 3, 2021 and approved by Opinion and Order entered on October 28, 2021); Upper Pottsgrove Order, supra note 1; York Order, supra note 1.

1 2	PAWC may propose an effective date for new rates for Royersford wastewater customers that is different from the effective date of new rates for other customers.
3	Valley Water
4	The Valley Settlement (p. 8-9) provided for the following regarding the rate increase:
5 6 7 8 9	A. PAWC will propose to move Valley's Water System to 2.0x the current Valley water rate or PAWC's proposed Rate Zone 1 system-average water rates, whichever is lower.B. PAWC may propose an effective date for new rates for Valley water customers that is different from the effective date of new rates for other customers.
10	Valley Wastewater
11	The Valley Settlement (p. 8) provided for the following regarding the rate increase:
12 13 14 15 16 17	A. PAWC will propose to move Valley's Wastewater System to 1.25x the current Valley wastewater rate or PAWC's proposed Rate Zone 1 system-average wastewater rates, whichever is lower.B. PAWC may propose an effective date for new rates for Valley wastewater customers that is different from the effective date of new rates for other customers.
18	Upper Pottsgrove
18 19	Upper Pottsgrove The Upper Pottsgrove Settlement (p. 7) provided for the following regarding the rate
19	The Upper Pottsgrove Settlement (p. 7) provided for the following regarding the rate
19 20 21 22 23 24 25 26 27	The Upper Pottsgrove Settlement (p. 7) provided for the following regarding the rate increase: PAWC will propose to move the Township's system to its cost of service, based on a separate cost of service study for the Township's system; provided, however, that PAWC will not propose Upper Pottsgrove wastewater rates in excess of PAWC's proposed Rate Zone 1 system-average rates. The Joint Petitioners acknowledge, however, that PAWC may agree to rates other than those proposed for Township customers in the context of a settlement of the base rate case. OCA, I&E, OSBA and Upper Pottsgrove reserve their rights to fully address this proposal, and to make
19 20 21 22 23 24 25 26 27 28	The Upper Pottsgrove Settlement (p. 7) provided for the following regarding the rate increase: PAWC will propose to move the Township's system to its cost of service, based on a separate cost of service study for the Township's system; provided, however, that PAWC will not propose Upper Pottsgrove wastewater rates in excess of PAWC's proposed Rate Zone 1 system-average rates. The Joint Petitioners acknowledge, however, that PAWC may agree to rates other than those proposed for Township customers in the context of a settlement of the base rate case. OCA, I&E, OSBA and Upper Pottsgrove reserve their rights to fully address this proposal, and to make other rate proposals in the base rate case.

1 2 3		b. PAWC may propose an effective date for new rates for the System that is different from the effective date of new rates for other customers, provided that such effective date is at least three years after the Closing.
4	Q.	Please summarize how the Company has complied with the above-referenced
5		Settlements.
6	A.	The Company proposes rates for the Valley Water and Wastewater, Royersford, Upper
7		Pottsgrove and York systems consistent with the revenue increases outlined in the
8		respective Settlements. Please refer to the testimony of Charles Rea (Statement No. 10)
9		for detail on the proposed increases for each of these systems.
10	Q.	In the Asset Purchase Agreements for the Royersford, Valley Water, Valley
11		Wastewater, York and Foster acquisitions, did the Company make agreements
12		regarding changes to base rates?
13	A.	Yes. Section 7.03 of the Royersford Asset Purchase Agreement ("APA") provides as
14		follows:
15 16		The Base Rate shall not be increased until after the second anniversary of the Closing Date.
17		Section 7.03 of the Valley Water and Wastewater APAs each provide as follows:
18 19		Buyer shall not propose to increase Base Rates until after the second anniversary of the Closing Date.
20		Section 6.04 of the York APA provides as follows:
21 22 23		Buyer shall, subject to PaPUC approval in a future base rate proceeding, maintain base rates for System customers for a minimum period of three (3) years from the Closing Date.
24		Section 4.1 of the Foster APA provides as follows:
25 26 27		After Closing, Buyer will begin charging Seller's current rates (as of the date of this Agreement) as Buyer's base rates (but not other charges, including those discussed below) within Seller's service area (such service area being consistent with

Schedule 1), which shall not be increased by the Buyer until after December 31, 2024.

3 Q. Are the Company's commitments in its Settlements, as outlined above, consistent with 4 the commitments in the above-referenced APA agreements?

5 Yes. The Settlements of the Royersford, Valley Water, Valley Wastewater, and York A. 6 proceedings each provided that the Company would propose a certain level of increase for 7 the acquired systems, but that the Company may propose a different effective date for the 8 acquired system than for other customers. In this case, the Company is proposing the level 9 of increases as required by the Settlements, and is proposing that each increase not take 10 effect until the time periods specified in the respective APAs have elapsed; i.e. until May 11 2023 for Royersford, November 2023 for Valley Water and Wastewater, January 2025 for 12 Foster, and approximately May 2025 for York.⁸

Q. Please summarize the Company's proposal with respect to the systems for which the Company has agreed to not increase rates for a certain period of time.

A. For Royersford, Valley Water, Valley Wastewater, Foster, and York, the Company requests that the Commission permit the Company to implement the proposed changes to rates consistent with the Company's agreements with each of these systems. The Company's pro forma tariff supplement reflects this proposal by showing each system's current rates as continuing to be effective until the end of the rate freeze period, and proposed rates taking effect on the date indicated on the pro forma tariff supplement.

⁸ The effective date of the increase for York will be dependent on the closing date of the York acquisition. The Company currently projects closing in May 2022.

1 Conclusion 2 Q. Does this conclude your direct testimony at this time?

3 A. Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY	:	
COMMISSION	:	
	4	
ν.		DOCKET NOS. R-2022-3031672 (WATER)
	:	R-2022-3031673 (WASTEWATER)
PENNSYLVANIA-AMERICAN WATER	:	(
COMPANY	:	

VERIFICATION

I, **Stacey D. Gress**, hereby state that the facts set forth in the pre-marked Statement No. 4 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Stacey D. Gress

Allocation Factors for Common Costs to be Allocated from Water to Wastewater Pennsylvania-American Water Company

Schedule SDG-1 Page 1 of 2

Factor 1: Customers (for Service Company and Customer Accounting)

As of 12/31/21 Water Operations	Total Customers 677,153	Dual Water/Wastewater Customers	Wastewater Only Customer Equivalent (5% of Dual Customers)	Wastewater Only	Total Customers For Allocation (Wastewater: D+E) 677,153	Allocation Factor 97.5%
Wastewater SSS	38,142	33,936	1,697	4,206	5,903	0.9%
Royersford WW	1,487	1,469	73	18	91	0.0%
Wastewater CSS	42,348	32,279	1,614	10,069	11,683	1.7%
Total	759,130	67,684	3,384	14,293	694,830	100%
Factor 2: Customers (for Rate	e Case and Regulatory Expense	2)				
As of 12/31/21 ¹	Total Customers	Allocation Factor	Water	WW SSS Only	W & WW SSS Only	WW CSS

ractor 2: Customers (for Rate Case and Regulatory Expense)									
As of 12/31/21 ¹	Total Customers	Allocation Factor	Water	WW SSS Only	W & WW SSS Only	WW CSS			
Water Operations	677,228	87.4%	100.0%		94.6%				
Wastewater SSS	38,658	5.0%		100.0%	5.4%				
Royersford WW	1,487	0.2%							
Upper Pottsgrove WW	1,613	0.2%							
York WW	13,595	1.8%							
Wastewater CSS	42,348	5.5%				100.0%			
Total	774,929	100.00%	100%	100%	100%	100%			

 1 Includes Creekside HOA in Water and Foster Township WW in Wastewater SSS as of 12/31/2023.

Factor 3: Customers (for Pennsylvania-American Corporate Headquarters -Capital Campus)

As of 12/31/21	Total Customers	Allocation Factor
Water Operations	677,153	89.2%
Wastewater SSS	38,142	5.0%
Royersford WW	1,487	0.2%
Wastewater CSS	42,348	5.6%
Total	759,130	100%

Factor 4: Depreciated Utility Plant in Service (Insurance Other Than Group)

As of 12/31/21	Depreciated Utility Plant in Service	Percentage
Water Operations	4,412,304,592	84.7%
Wastewater SSS	372,944,085	7.2%
Royersford WW	12,783,594	0.3%
Wastewater CSS	409,933,356	7.9%
Total Net Utility Plant in Service	5,207,965,627	100%

¹5% is the percentage used per the Service Company methodology of qualifying a dual service customer. The Massachusetts Formula approach supports that dual service customers be counted as one customer plus 5% of another customer.

The Massachusetts Formula includes three factors: gross property, plant and equipment, direct labor expenses, and gross revenues

Factor 4: Depreciated Utility Plant in Service (Insurance Other Than Group) Pennsylvania-American Water Company

Schedule SDG-1 Page 2 of 2

Non-Depreciable Plant Depreciable Plant	Water Operations 25,203,146 5,785,620,038	Wastewater SSS General Operations 6,261,251 591,884,962	<u>Royersford WW</u> <u>Operations</u> 3,101 19,400,884	Upper Pottsgrove WW Operations	York WW Operations	<u>Wastewater CSS</u> <u>Operations</u> 4,463,355 691,731,050	<u>Company Total</u> 35,930,853 7,088,636,934
Total Utility Plant In Service	5,810,823,184	598,146,213	19,403,985	-	-	696,194,405	7,124,567,787
Deduct: Contributions In Aid Of Construction Customer Advances For Constructior Excluded Property	250,393,243 60,663,923 1,558,014	41,742,743 480,879 -	- -			11,570,599 - -	303,706,585 61,144,802 1,558,014
Sub-Total	312,615,180	42,223,622	-	-	-	11,570,599	366,409,401
Net Utility Plant In Service	5,498,208,004	555,922,591	19,403,985	-	-	684,623,807	6,758,158,386
Accumulated Depreciation	1,085,903,412	182,978,506	6,620,391			274,690,451	1,550,192,760
Depreciated Utility Plant In Service	4,412,304,592	372,944,085	12,783,594	-	-	409,933,356	5,207,965,627
Percentage of Total	84.7%	7.2%	0.2%	0.0%	0.0%	7.9%	100.0%

Statement No. 5 O'Malley

PAWC STATEMENT NO. 5

DIRECT TESTIMONY OF LORI O'MALLEY

WITH REGARD TO

PENNSYLVANIA-AMERICAN WATER COMPANY

LABOR AND LABOR RELATED EXPENSES,

SERVICE COMPANY EXPENSE,

MISCELLANEOUS EXPENSE ADJUSTMENTS,

AND INFLATION

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY **DIRECT TESTIMONY OF LORI O'MALLEY**

1		BACKGROUND
2	Q.	What is your name and business address?
3	A.	My name is Lori O'Malley. My business address is 1 Water Street, Camden, New Jersey
4		08102.
5	Q.	By whom are you employed and in what capacity?
6	A.	I am employed by American Water Works Service Company, Inc. ("AWWSC" or the
7		"Service Company") as Senior Manager Regulatory Services. The Service Company is a
8		wholly owned subsidiary of American Water Works Company, Inc. ("American Water")
9		that provides services to Pennsylvania-American Water Company ("PAWC",
10		"Pennsylvania-American" or "Company") and its affiliates.
11	Q.	What are your responsibilities as Senior Manager Regulatory Services?
12	A.	My responsibilities include the review, preparation and presentation of regulatory filings
13		and related activities for Pennsylvania-American, West Virginia-American Water
14		Company and Iowa-American Water Company. In addition, my responsibilities include
15		the preparation of written testimony, exhibits and workpapers in support of rate
16		applications and other regulatory filings, as well as responses to data requests related to
17		filing requirements. In this role, I stay apprised of regulatory developments and policy
18		initiatives that may impact regulated water utilities and support the analysis and
19		coordination of process improvements of rates and regulatory processes and services.

Q. Please summarize your educational background.

- A. I received a Bachelor of Science Degree in Business Administration with a specialization
 in Accounting from Rowan University in 1995. I have also attended the Utility Rate School
 sponsored by the National Association of Regulatory Utility Commissioners.
- 5

Q. Please outline your business experience.

- 6 A. I began my employment with the Service Company as an Accountant for the Regional 7 Companies in July 1996. At the time, the Regional Companies included American Water 8 affiliates located in the states of Iowa, Maryland, Michigan, Missouri, Ohio, Tennessee and 9 Virginia. In October 1998, I was promoted to Senior Accountant and then Accounting 10 Supervisor in March 1999. In May 2004, I accepted a position in the Regulatory Services 11 From 2004 to today, I have held increasing levels of responsibility as an group. 12 Intermediate Financial Analyst, Senior Financial Analyst, Principal Regulatory Analyst, 13 and my current position as Senior Manager Regulatory Services.
- 14

PURPOSE OF TESTIMONY

- 15 Q. What is the purpose of your testimony?
- A. The purpose of my testimony is to support and explain the Company's claim for: (1) labor
 and labor-related expense; (2) Service Company expenses; and (3) miscellaneous expense
 adjustments.

19 Q. What methodology did the Company use in calculating its pro forma expense levels 20 in this case?

A. In this case, the Company is presenting supporting data for a historic test year ended December 31, 2021 ("HTY"), a future test year ending December 31, 2022 ("FTY"), and a fully projected future test year ("FPFTY") ending December 31, 2023. The Company

1 began with the expenses recorded on its books of account for the HTY and made various 2 adjustments to reflect known and measurable changes that occurred during the HTY. For 3 the FTY and FPFTY, the Company made specific adjustments to certain expenses or 4 categories of expenses based on known and measurable changes (e.g., collective bargaining 5 agreements), projected changes in expenses or, in some cases for expenses that are 6 variable, relied upon historical averages to reflect a normalized level of expense. For 7 expenses that were not subject to such specific adjustments, PAWC used the average Gross Domestic Product ("GDP") Price Index forecast for future periods, as compiled by the Blue 8 9 Chip Economic Indicators, to capture anticipated future changes in those costs. The Blue 10 Chip forecast is based upon a survey of a wide range of financial professionals, including 11 bank, academic and corporate forecasters. The 2022 GDP Price Index is 4.03%, and the 2023 GDP Price Index is 2.48%.¹ All adjustments are detailed in PAWC Exhibit Nos. 3-A 12 and 3-B. 13

14 Q. Please provide a brief overview of the Company's operating and maintenance 15 ("O&M") expense levels.

A. Although the Company projects a modest increase to O&M expense going forward, the
 Company's current O&M expense remains nearly flat on a cost per customer basis when
 compared to O&M expense from a decade ago. The overall O&M expense level claim in
 this case represents a 2.3% annual increase over the level of O&M expenses claimed in the

¹ The United States Bureau of Labor Statistics ("BLS") calculates two measures of inflation in the United States' economy, which consist of the Consumer Price Index ("CPI") and the GDP price index and implicit price deflator. The BLS computes the CPI to measure changes in the prices of goods and services purchased out-of-pocket by urban consumers, and computes the GDP price index and implicit price deflator to measure changes in the prices of goods and services purchased by consumers, businesses, government, and foreign persons and entities, but not importers. The Company has determined that the GDP price index and implicit price deflator is an appropriate measure of inflation for its projection of pro forma expenses in this case that are not subject to specific adjustments.

Company's last base rate case, which was filed in April 2020, plus an additional 4.8% annual increase attributable to the 8 acquisitions since the Company's last base rate case. There are numerous factors that contribute to the increase in operating expenses, including those associated with enhanced maintenance activities discussed by Company witness Jim Runzer, as well as the addition of multiple acquired systems since the last base rate case, as addressed in the testimony of Company witness Bernard Grundusky.

Q. Please explain how the adjustments you describe below apply to the revenue
requirement studies set forth in PAWC Exhibit No. 3-A.

9 A. The adjustments I describe below apply to the expenses reflected in each of the six revenue
10 requirement studies that are set forth in PAWC Exhibit No. 3-A. Because the adjustments
11 apply to the expense claims set forth in each revenue requirement study, I will describe
12 those adjustments generally and not address the specific adjustments reflected in each
13 study.

14

LABOR AND LABOR RELATED EXPENSES

- 15
- 16 Q. Please describe PAWC's labor and labor-related expenses.

A. PAWC's labor and labor-related expenses are associated with employees who support
PAWC exclusively and, therefore, are on the payroll of PAWC. As Mr. Runzer explains,
PAWC's labor force is responsible for assuring the production of high-quality drinking
water, operating and maintaining the Company's production and treatment facilities and
its distribution and collection systems, monitoring water quality, providing engineering

services, and generally supporting the efficient management of all of the Company's
 operations.

3 There are three classifications of PAWC employees: collective bargaining unit ("CBU") 4 hourly employees, non-collective bargaining unit ("non-CBU") hourly employees and 5 exempt employees. CBU hourly employees receive base pay, overtime pay, and, in some 6 cases, other compensation (such as shift premiums and meal allowances) and are also 7 eligible for performance pay. Non-CBU hourly employees receive base pay and overtime 8 pay and are eligible for performance pay. Exempt employees receive base pay and are 9 eligible for performance pay. Therefore, total wages or salaries for each classification of 10 employees includes fixed pay (base pay) and some form(s) of variable pay (e.g. overtime, 11 shift pay and performance pay) for eligible employees.

12 The labor and labor-related expenses that are discussed in my testimony include:

- 13 (1) Salaries and wages (including Annual and Long-Term Performance Pay)
- 14 (2) Group Insurance
- 15 (3) Other benefits, including:
- 16 a. 401k
- b. Defined Contribution Plan ("DCP")
- 18 c. Pension and Other Post-Employment Benefits ("OPEBs") for certain
 19 eligible employees
- 20 d. Employee Stock Purchase Plan ("ESPP")
- 21 (4) Payroll Taxes
- 22 These costs are described further in my testimony below.

Q. Please describe the overall approach the Company has used to calculate labor and labor-related expenses.

A. PAWC's proposed labor and labor related expenses are reflected in the labor and labor-related sections of Exhibit Nos. 3-A and 3-B. Pro forma labor and labor-related expenses
were calculated on a position-by-position basis, based on the Company's HTY authorized
number of employees, consisting of 1,263 full-time positions and one part-time position.
The labor expenses claimed for the FTY and the FPFTY reflect a full complement of
employees for each of the Company operations, as set forth in the table below:

PAWC Operations Employee Levels	2021	2022	2023
Water Operations	1,017.0	1,073.3	1,073.3
Wastewater SSS General Operations	45.0	43.5	43.5
Royersford WW Operations	2.0	2.0	2.0
Upper Pottsgrove WW Operations	-	2.2	2.2
York WW Operations	-	38.0	38.0
Wastewater CSS Operations	100.0	104.0	104.0
Total Company	1,164	1,263	1,263

9

10 The HTY labor hours were annualized and adjusted to a normalized level. These hours 11 were then multiplied by the actual 2022 wage rates by employee position to determine an 12 annualized level of expense. This amount was then adjusted using a historic three-year 13 average of base pay increases for non-CBU employees. To adjust the level of expense for 14 CBU employees, the most recent collective bargaining agreements ("CBAs") that remain 15 in effect were used to determine costs for each of the FTY and FPFTY. For those 16 bargaining units for which CBAs expired, with the exception of Utility Workers Union of 17 American, AFL-CIO System Local 537, a historic three-year average of contract wage 18 increases was used to determine projected costs for the FTY and FPFTY. For Local 537,

1 a 2% increase over the 3-year average of contract wage increases from 2016-2018 of 2.55% 2 was applied to arrive at an increase of 2.75% for the FTY and FPFTY. Because this 3 bargaining unit had not had a wage increase since May 18, 2018, this reflects a more 4 appropriate increase than one applied annually. In December 2017, the CBA for the 5 employees included in Local 537 was extended with rates effective May 18, 2018. There 6 have since been no further contract extensions. The Company's FPFTY annualizes the 7 effects of the increases calculated using the methodologies described above. The details of 8 these calculations, by employee position, are set forth in Exhibit No. 3-B.

9 Some labor and labor-related costs are capitalized and added to the costs of utility plant. 10 Therefore, a capitalization percentage is applied to total labor and labor-related costs to 11 calculate the portion of those costs that are recorded as capital costs. The Company has 12 calculated capitalization percentages based on the historic three-year average ratio of direct 13 labor dollars charged to capital to total direct labor costs. The capitalization percentages 14 calculated in that manner are 38.82% for the Company's water operations and 23.74% for 15 its wastewater operations. The complement of those percentages represents the portion of 16 labor and labor-related costs recorded as an expense.

17 Salaries and Wages

18 Q. Please describe how the various components of pro forma salaries and wages are 19 calculated.

A. Salary and wage expense has four components: (1) base pay; (2) overtime; (3) shift premium and meal compensation pursuant to the terms of applicable CBAs; and (4) annual and long-term performance compensation for eligible employees. Each component is discussed in further detail below.

1 **Base Pay** – Base pay was calculated for the FTY by applying a three-year average of the 2 historical percentage increases to the annualized HTY wage rates. The wage rate projected 3 to be in effect for each month of the FTY is applied to the working hours for each month. 4 Regular working hours total 2,088 for all full-time hourly employees and 2,080 for all full-5 time non-hourly employees. Wage rates for CBU employees were based on CBAs for each 6 month of the FTY and FPFTY. If wage rates have not been established by CBAs that will 7 be in effect the end of the FPFTY, the wage rates were adjusted using an annual increase percentage equal to the historical three-year average of contracted increases. Non-CBU 8 9 employees' wage rates were based on the rates that became effective on March 7, 2022. 10 Those rates were adjusted through the FPFTY based on a three-year average of the 11 historical percentage increases and were annualized as of the end of FPFTY.

Overtime – Overtime was calculated by starting with the total HTY overtime hours by position and multiplying those hours by the projected overtime wage rate for each employee position. In addition, for Royersford, which PAWC acquired during the HTY, the overtime hours for each employee position were annualized and were used to calculate the applicable adjustments for overtime pay for the FTY and FPFTY.

Shift Premium – CBU employees' CBAs provide wage premiums for employees working
 on uncommon shifts or when employees obtain certain licenses or complete certain
 training. The actual total HTY amounts of shift premiums, licensing and training premiums
 were determined on a per-employee basis and included in salary and wage expense for the
 FTY and FPFTY.

Meal Compensation – CBU employees' CBAs provide compensation for meals during
 extended shifts and, therefore, meal compensation is included in salaries and wage expense.
 A historical three-year average of meal compensation was determined on a per-employee
 basis and included in salary and wage expense for the FTY and FPFTY.

5 **Performance Pay** – The last component of labor expense is the annual and long- term 6 performance compensation for eligible employees. Performance pay was calculated on a 7 position-by-position basis for eligible employees based on each position's target percent, 8 or percentage of base salary that is provided if an employee achieves their performance 9 target, under both the Annual Performance Plan ("APP") and Long Term Performance Plan 10 ("LTPP"). The target percent was multiplied by each eligible employee's pro forma base 11 salary in the FTY and FPFTY, to determine the cost of compensation under the APP and 12 LTPP. In PAWC Statement No. 2, Mr. Runzer describes the performance pay program in more detail. 13

14 Group Insurance

15 Q. Please describe the components of the Company's group insurance expense.

A. Group insurance includes several insurance coverages that PAWC provides its employees.
These can be grouped into two primary categories: (1) basic life, short-term disability,
long-term disability and accidental death and disability insurance ("AD&D"); and
(2) medical, dental, prescription and vision insurance.

- 20 Q. How was the pro forma adjustment for group insurance expense calculated?
- 21 A. Costs were calculated for the pro forma adjustment as follows:

- Basic life, short- and long-term disability and AD&D. The starting point is the
 2022 premium rates for each position under the applicable insurance plans for CBU
 and non-CBU positions.
- Medical, dental, and vision insurance. The Company's cost for this category of
 insurance is net of employee contributions. The total costs and employee
 contributions vary by plan type (e.g. family, employee, or employee plus spouse).
 Costs and contributions were calculated using the 2022 plan rates, on a position by-position basis, taking into account actual employee plan selections.

9 Once the 2022 cost level was established, a historical three-year average of the change in 10 Company costs for group insurance between 2019 and 2022 was applied to the annualized 11 amount for 2022 in order to adjust the insurance expense to the level appropriate for the 12 FPFTY.

Q. What steps in general has American Water taken to manage the group insurance benefit costs?

15 A. Group insurance is obtained for employees of PAWC and its affiliates based on benefit 16 plans administered by American Water. American Water has been proactive in seeking 17 changes that improve how healthcare is delivered in order to control the costs of providing 18 health insurance to its employees. These efforts have included offering high-deductible 19 health plans and a telemedicine option, which lower the overall cost of health insurance 20 programs. For example, instead of an office or urgent care visit, for which providers charge 21 \$100 or more, employees have the option to consult with a physician remotely, at a cost to 22 the insurer of \$59 per visit. American Water also became a founding member of the Health 1 Transformation Alliance ("HTA") in 2016 to help achieve the goal of providing higher 2 quality care at lower cost by identifying facilities and physicians that have better outcomes, 3 using American Water's purchasing power to keep costs down, and helping every 4 employee become a more engaged consumer.

5 Q. What is HTA and why is it better than the traditional approach to obtaining 6 healthcare coverage for employees?

7 A. HTA is a cooperative comprising 50 major corporations that have come together to drive 8 change in the healthcare system. In addition to American Water, its members include 9 American Express Company, JPMorgan Chase, IBM Corporation, Verizon and Marriott 10 International Inc., and many more. Acting on its own, any single HTA member is unlikely 11 to change the trends in healthcare that are driving up costs. By working together, however, 12 HTA members can create more transparency to drive changes in the way healthcare is 13 delivered, and those changes can result in lower prices for prescription medicine and 14 medical services and produce better outcomes, which make health care more affordable. 15 To that end, the HTA has developed value-driven solutions in the areas of data and 16 analytics, pharmacy and medical services and consumer engagement specifically designed 17 to improve patient care and economic value. Lastly, American Water will review current 18 plan options, and when it is possible, add additional services to its plans to drive claims 19 down and lower rates. Because the Company's health and welfare plans are self-funded, 20 when claims are lower, everyone saves. For example, in 2022, American Water added the 21 PrudentRx Copay program in partnership with CVS Caremark. This allows our active 22 employees and retirees to get any specialty medications that are on our Exclusive Specialty 23 Drug List for \$0 out-of-pocket cost to the employee and discounts to American Water.

Other Benefits

2 Q. Please describe the components of other benefits the Company provides and how the 3 costs of those benefits were calculated.

A. Other benefits PAWC provides include savings programs, such as 401k plans, DCP,
pension benefits, OPEBs, and the Company's ESPP. The costs of these benefits were
calculated on a position-by-position basis. The calculations of the costs included in the
Company's labor-related expense claims are described below.

8 401k - PAWC incurs 401k expense when it matches employee contributions to 401k 9 retirement accounts. The matching amounts are determined by each employee's benefit 10 group or hire date. For employees whose benefit group falls into an "original" category 11 (including CBU employees hired before 2001 and non-CBU employees hired before 2006), 12 the Company matches 50% of the first 5% of the employee's contribution (for a maximum 13 of 2.5%). For the remaining employees, the Company matches 100% of the first 3%, and 14 50% of the next 2% of the employee's contributions (for a maximum of 4%). Pro forma 15 401k costs were calculated for each position based on FTY wages, current employee 16 contribution levels, and the level of match for the benefit group.

DCP – DCP, or Defined Contribution Plan, is a retirement savings program for employees
not eligible for the defined benefit pension program. Under the DCP, PAWC contributes
an amount equal to 5.25% of an employee's base pay into a retirement account. The pro
forma DCP expense was calculated by multiplying the FTY and FPFTY regular time pay
of each eligible position by 5.25%.

1 **Pension** – Certain Company employees, upon retirement, are eligible for pension benefits 2 under a defined benefit plan. Covered employees include non-CBU employees hired 3 before January 1, 2006, and CBU employees hired before January 1, 2001. Consistent with 4 PAWC's calculation of pension expense in its last base rate case, the Company calculated 5 its pension expense claim in this case in accordance with Financial Account Standards Board 6 Accounting Standards Codification Topic 715 or "ASC 715" (formerly Statement of 7 Financial Accounting Standards 87). The Company started with the report furnished by its 8 actuary, Willis Tower Watson, that furnished pension costs for 2022 determined in accordance with ASC 715. From that report, the Company identified the service and non-9 10 service cost components of its pension costs. The service cost portion was reduced by the 11 capitalization rate of 38.82% to determine the portion of total pension costs recorded as an 12 expense. The Company's claim for OPEB expense is explained below.

13 In addition to the pro forma pension expense determined in the manner described above, the 14 Company's claim reflects a credit for the annual amortization of a deferred pension asset that 15 was created when the Company began using the accrual method of accounting, based on 16 ASC 715, to calculate pension expense for ratemaking purposes in its last base rate case. 17 Prior to its last case, the Company's pension expense claimed for ratemaking purposes had 18 been based on its cash contributions to its pension plan. The amortization of the deferred 19 pension asset is being continued at the level approved in R-2017-2595853. The ten-year 20 amortization began with the effective date of the rates set in that case and, therefore, will 21 expire in 2028.

OPEB – Certain PAWC employees are eligible for OPEBs upon their retirement
 depending on their employment start date. Only non-CBU employees hired before

1January 1, 2002, and CBU employees hired before January 1, 2006 are eligible for OPEBs.2The investments made to fund OPEBs are divided into three Voluntary Employees3Beneficiary Association Plans ("VEBAs"): Post-Retirement Medical Benefits/Bargaining4Unit, Post-Retirement Medical Benefits/Non-Bargaining Unit, and Life Insurance5Benefits. In 2016 and 2018, American Water negotiated a cap on benefits in the Bargaining6Unit and Non-Bargaining Unit VEBAs .

OPEB expense is based on the accrual cost recognized under ASC 715, as projected by Willis Towers Watson for 2022. The Company adjusted its request to revise the expense associated with the Bargaining Unit VEBA, as currently there is a balance in that account subject to 100% tax if removed from the plan. The 38.82% capitalization rate was applied the service cost component that will be charged to capital. As of January 1, 2023, the balance associated with the Bargaining Unit VEBA is no longer subject to 100% tax, therefore the associated OPEB expense is included in the projected costs for 2023.

14 In addition, for active bargaining unit employees covered under American Water's 15 National Benefits Agreement who are not eligible for retiree medical benefits under the 16 OPEB plan, the Company makes an annual contribution of \$600 per employee to a separate 17 VEBA plan that is administered by the Utility Workers Union of America. That plan is 18 designed to reimburse eligible participants for certain health care expenses they incur in 19 retirement. A pro forma adjustment to reflect these contributions on behalf of eligible 20 employees of the Company's Water Operations and Wastewater Combined Sewer System 21 ("CSS") Operations has been made to the Company's OPEB expense claim in this case.

ESPP – ESPP expense is incurred to fund the 15% discount on purchases of American Water stock by employees that are enrolled in the ESPP. This expense was calculated based on the FTY and FPFTY salaries and wages for each employee who participates in the plan. The employees' forecasted base compensation is multiplied by the percentage of base compensation each employee has selected to devote to purchasing American Water stock. That amount was then multiplied by the 15% discount on stock purchases to determine the pro forma expense for the ESPP.

8

Q. Please describe the Company's payroll tax expense.

9 A. Payroll tax expense consists of the federal and state taxes the Company pays based on its 10 employee's salaries and wages. The Federal Insurance Contributions Act imposes taxes 11 on employers for Old Age Survivors and Disability Insurance ("OASDI," or more 12 commonly "FICA") and Hospital Insurance (or more commonly "FICA Medicare"). The 13 Company is also required to pay Federal Unemployment Tax ("FUTA") and State 14 Unemployment Tax ("SUTA"). Pro forma payroll taxes were calculated on a position-by-15 position basis using current 2022 tax rates and pro forma wages for the FTY and FPFTY. 16 The current 6.2% FICA tax rate will apply to wages of up to \$147,000 in 2022. The wage 17 ceiling for applying the FICA tax rate is estimated to increase to \$152,026 for the FPFTY, 18 based on a three-year average of historical actual increases in the wage ceiling for FICA 19 tax. For the FTY and FPFTY, the Company applied the FICA Medicare tax rate of 1.45% 20 to all wages, applied the SUTA tax rate of 1.712% to the first \$10,000 of wages, and applied 21 the FUTA tax rate to the first \$7,000 in wages.

1 SERVICE COMPANY COSTS

2

Q.

What kinds of services does PAWC obtain from the Service Company?

3 Α. The services provided by the Service Company include customer service, water quality 4 testing, environmental compliance, human resources, communications, technology and 5 innovation, finance, accounting, legal, engineering, supply chain, and risk management. 6 As part of the broad range of services summarized above, the Service Company provides 7 a variety of financial and accounting services for Pennsylvania-American that include 8 payroll, human resources data management, utility plant accounting, cash management, 9 general accounting and reporting, accounts payable, and tax accounting. As part of its 10 customer-service function, the Service Company operates customer service centers in Alton, Illinois,² and Pensacola, Florida, that handle customer calls, billing, and collection 11 12 activities for PAWC and American Water's other public utility subsidiaries. The customer 13 service centers also handle customer inquiries and correspondence and process service 14 order requests.

In addition, the Service Company operates two Field Resource Coordination Centers responsible for tracking and dispatching service orders for PAWC's field representatives and distribution crews. The Service Company also operates the Central Laboratory located in Belleville, Illinois, which employs chemists, laboratory technicians, analysts, and support employees to perform water quality testing and research. The Central Laboratory is certified by the United States Environmental Protection Agency, the Commonwealth of Pennsylvania Department of Environmental Protection ("PADEP") and the regulatory

² The lease for the customer service center in Alton, IL ends in July 2022. Thereafter all employees will work remotely.

agencies of other states in which American Water's subsidiaries provide service. The
 Central Laboratory owns and uses state-of-the-art water testing equipment to test source
 water and finished water for all of American Water's subsidiaries, including PAWC.

How do Pennsylvania-American's customers benefit from obtaining the services you

4

Q.

5

described from AWWSC?

6 The Service Company provides PAWC access to highly trained professionals who possess A. 7 expertise in various specialized areas, whose background, experience and training are 8 focused on water utility operations and who work exclusively for American Water's 9 subsidiaries. Furthermore, the size of AWWSC and the scope of its operations have 10 enabled it to assemble a uniquely qualified group of professionals who, through AWWSC, 11 have a platform for sharing their extensive knowledge, expertise, experience and best 12 practices across the American Water system to the benefit of all of American Water's state-13 regulated utilities and their customers. The Company benefits from getting these services 14 and tapping into the expertise of AWWSC's personnel at cost. The Company also benefits 15 from the size and breadth of American Water, which affords the Company increased 16 purchasing power that it could not obtain on its own, and provides access to discounts on 17 equipment and supplies needed for utility operations, including, for example, pipe, fittings, 18 and water treatment chemicals. In this way, Pennsylvania-American achieves costs savings 19 that it could not obtain if it were a stand-alone water company.

20

Q. How does the Service Company charge PAWC for its services?

A. The Service Company provides its services to PAWC at cost and issues monthly invoices.
Under the Service Company's billing system, costs can be billed as direct charges to a

single company or as charges reflecting an allocation among several companies. If the
 Service Company can identify costs that relate exclusively to PAWC, 100% of those costs
 are charged directly to Pennsylvania-American. Costs the Service Company incurs in
 rendering services in common to a group of companies and not exclusive to Pennsylvania American are charged to each service recipient in the relevant group based on an allocation.

6

Q. Please explain the direct charging of Service Company costs.

A. Service Company personnel are instructed to charge their hours and any operational
 expenses they incur directly to the entity for which they are performing service. In
 addition, charges associated with the Central Laboratory and certain charges associated
 with the customer service centers are directly charged based on specific volumes of work.

11 Q. How are Service Company costs allocated to PAWC?

12 A. Service Company costs are charged to PAWC and its affiliates using Tier One or Tier Two 13 allocation factors. The Tier One allocation factor represents the allocation of costs between 14 regulated and non-regulated companies. The allocation factors are based on cost-causation 15 drivers for a particular service and include operating revenues, net property, plant and 16 equipment and number of employees. The allocation is calculated using one or an applicable combination of these allocation factors. If a combination of allocation factors 17 18 is used, each factor is equally weighted in the calculation. The Tier Two allocation factor 19 is used to allocate regulated company costs to the regulated businesses that benefit from a 20 service. Tier Two factors are primarily based on the number of customers served in the 21 immediately preceding calendar year.

2

Q. What level of Service Company expense is Pennsylvania-American seeking in this case and how was it calculated?

3 Α. The Company is seeking recovery of an expense of Service Company charges of 4 \$59.9 million for the FPFTY. The expense is divided into two categories consisting of 5 labor and labor-related expenses and all other expenses. For the labor and labor-related 6 portion, the expenses incurred for the HTY have been adjusted to annualize a base pay 7 increase in March 2021 of 3.07% for non-CBU employees of the Service Company, and annual contract increases of 3.00% for CBU employees of the Service Company. For non-8 9 CBU employees, the HTY level of base pay was further adjusted to annualize base pay 10 increases of 3.15% to calculate the base pay for the FTY and 2.99% to calculate the base 11 pay for the FPFTY. The FTY percentage increase reflects the actual average increase 12 effective March 7, 2022. The FPFTY percentage was calculated using a historical three-13 year average. For CBU employees, the HTY level of base pay was further adjusted to 14 annualize annual contract increases of 2.75% to calculate the base pay for the FTY and 15 FPFTY. Additionally, adjustments were made to eliminate severance expense, to 16 normalize pension and OPEB costs, and to reflect the movement of employees between 17 PAWC and the Service Company.

18 Q. Please explain the adjustment for employee movements between PAWC and 19 AWWSC.

A. Three Service Company positions in Business Development were transferred to PAWC,
 and two PAWC positions were transferred to Service Company during the HTY. The
 difference is reflected as a reduction to Service Company expense.

Q. What other adjustments were made to Service Company expense?

A. Costs pertaining to lobbying, charitable contributions, penalties, and injuries and damages
have been removed and, therefore, are not included in the pro forma expenses reflected in
the Company's expense claim in this case. Additional adjustments were made for
depreciation, interest associated with capital leases, travel expense and the lease
termination of Customer Service Center in Alton, Illinois. Finally, an inflation adjustment
was applied for the FTY and FPFTY non-labor cost items excluding depreciation and
capital lease interest.

9

MISCELLANEOUS EXPENSES

10 Q. Please explain what is included in the Miscellaneous Expense Adjustment.

A. Exhibit No. 3-A sets forth items that are being adjusted or eliminated from the Company's
 O&M claim in this proceeding.

13 First, I will discuss deductions reflected in the Miscellaneous Expense Adjustment. 14 The Company eliminated duplicative expense items such as pension and other postemployment benefits that have been included in the development of the Company's claim 15 16 for the ongoing water expense levels (Exhibit No. 3-A Water Operations). Additionally, donations, lobbying expenses, fines and COVID related costs incurred during the historic 17 18 test year were removed. Costs associated with temporary employees were excluded from 19 the Company's claim because the need for these employees will be significantly reduced 20 by the full-time staffing levels reflected in the salary and wage claim in this case. This part 21 of the adjustment assumes recognition in this proceeding of the requested staffing levels. 22 The Company has reduced per-book severance costs, as well as injuries and damages, to

2

reflect a normalized level that is based on a three-year average. An adjustment to annualize the cost of credit card and e-check transaction fees has been included.

As discussed by Ashley Everette in PAWC Statement No. 1, the Company has included costs related to the Arrearage Management Plan (AMP) and Low Income Program. The total cost of discounts is based on the average number of H2O Discount customers with arrears multiplied by the annual credits, assuming 100% participation rate. The adjustment also includes monthly and start-up costs provided by Dollar Energy who will facilitate the program.

9 For Water Operations, the Company removed prior year expenses for prepaid 10 NAWC – PA Chapter dues and for the Ohio River Valley Sanitation Commission in order 11 to not duplicate this expense. A one-time cost for legal fees was also removed. The 12 Company has adjusted per book injuries and damages to reflect a normalized level that is 13 based on a historic three-year average. Additionally, the Company has included an 14 adjustment in Exhibit No. 3-A to reflect the allocation of a portion of the cost of the Capital 15 Campus in Mechanicsburg from Water Operations to Wastewater SSS General Operations, 16 Royersford Wastewater Operations, Upper Pottsgrove Wastewater Operations, York 17 Wastewater Operations, and Wastewater CSS Operations.

18 Second, the Miscellaneous Expense Adjustment also includes additions to the 19 Company's O&M claim for water operations. The Company has adjusted per book 20 severance, conference and registration costs to reflect a normalized level that is based on a 21 historic three-year average. The Company also added costs associated with the revolving 22 line of credit because the costs were reclassified from interest expense to operating costs. 23 For Wastewater SSS General Operations and Wastewater CSS Operations, the Company

1		participates in the Nutrient Credit Trading program facilitated by the Department of
2		Environmental Protection. The program provides a cost-efficient way for National
3		Pollutant Discharge Elimination System (NPDES) permittees in the Chesapeake Bay
4		Watershed to meet their effluent cap load limits for nutrients. The need to purchase nutrient
5		credits fluctuates from year to year, therefore the Company has adjusted the per book costs
6		to reflect a normalized level that is based on a historic five-year average.
7		The Company also made adjustments to annualize the O&M expenses not fully
8		recognized in the HTY for the Company's acquisitions, as follows:
9 10 11 12		Water Operations : the water assets of Valley Township (acquired November 19, 2021), SLIBCO/GCC Cooperative (acquired November 19, 2021), Findlay Township Municipal Authority (anticipated bulk water agreement in 2022) and Creekside Development (anticipated acquisition in 2022)
13 14 15		Wastewater SSS General Operations : the wastewater assets of the Delaware Sewer Company (acquired May 13, 2021), Valley Township (acquired November 19, 2021) and Foster Township (anticipated acquisition in 2022)
16 17		Wastewater SSS Royersford Operations : the wastewater assets of Royersford Borough (acquired May 25, 2021)
18 19		Wastewater SSS Upper Pottsgrove Operations : the wastewater assets of Upper Pottsgrove (anticipated acquisition in 2022)
20 21		Wastewater SSS York Operations : the wastewater assets of the City of York and York City Sewer Authority (anticipated acquisition in 2022)
22		Details supporting these adjustments are provided in Exhibit No. 3-B.
23	Q.	Does this conclude your direct testimony at this time?
24	٨	Vas it doos

A. Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY	:	
COMMISSION		
ν.		DOCKET NOS. R-2022-3031672 (WATER)
		R-2022-3031673 (WASTEWATER)
PENNSYLVANIA-AMERICAN WATER		· · · · · ·
COMPANY		

VERIFICATION

I, Lori O, Malley, hereby state that the facts set forth in the pre-marked Statement No. 5 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Lori O'Malley

Statement No. 6 Markward

PAWC STATEMENT NO. 6

DIRECT TESTIMONY OF THOMAS MARKWARD

WITH REGARD TO PENNSYLVANIA-AMERICAN WATER COMPANY'S O&M EXPENSES INCLUDING: PURCHASED POWER, PURCHASED WATER, CHEMICALS, WASTE DISPOSAL, CHANGE IN WATER CONSUMPTION, TRANSPORTATION, INSURANCE OTHER THAN GROUP, AND RENT

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031672 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY

DIRECT TESTIMONY OF THOMAS MARKWARD

1 Q. What is your name and business address? 2 My name is Thomas Markward. My business address is 1 Water Street, Camden, A. 3 New Jersey 08102. 4 **Q**. By whom are you employed and in what capacity? 5 I am employed by American Water Works Service Company, Inc. as a Principal Regulatory A. 6 Analyst. 7 Please summarize your educational background and professional experience. **Q**. 8 A. I graduated from LaSalle University with a Bachelor of Science degree in Accounting. 9 I began my employment with American Water in November 2011 as an Accountant III, 10 where I supported utility plant accounting in preparing monthly journal entries, account 11 reconciliations and variance analysis. In November 2014, I was promoted to the role of 12 Accountant IV where I was responsible for the management of the monthly accounting 13 close process, as well as the analysis and recording of asset acquisitions and associated fair 14 value assessments. In November 2018, I was promoted to my current position as a 15 Principal Regulatory Analyst where my current duties include the preparation and 16 presentation of regulatory filings and related activities for Pennsylvania-American Water 17 Company ("PAWC" or "Company") and West Virginia-American Water Company. 18 What is the purpose of your testimony? **Q**.

A. The purpose of my testimony is to explain the portions of Exhibit No. 3-A that I am
 sponsoring, which relate to PAWC expense claims for the following: purchased power,
 purchased water, chemicals, transportation, insurance other than group policies, and rent.

Additionally, my testimony explains the adjustment necessary to account for changes in customer water consumption. Other components of the Company's claim for operating and maintenance ("O&M") expenses are addressed in the direct testimony of Lori O'Malley (PAWC Statement No. 5).

5 Q. Please explain the development of pro forma O&M expenses as set forth in Exhibit 6 No. 3-A that you are sponsoring.

7 A. In general, amounts recorded on the Company's books for the historic test year ended 8 December 31, 2021 ("HTY") were used as a starting point. Book data were adjusted to 9 reflect the effects of known and measurable changes that occurred during the HTY and to 10 reflect changes that are projected to occur by the end of the future test year ending 11 December 31, 2022 ("FTY"), and by the end of the fully projected future test year ending 12 December 31, 2023 ("FPFTY"). Consistent with prior filings, the Company made specific 13 adjustments to certain expenses for the FTY and FPFTY based on known and measurable 14 changes and projected changes in expenses based upon the Company's actual experience. Certain O&M expenses for which specific adjustments were not made were increased by 15 16 applying inflation factors of 4.03% and 2.48% for the FTY and FPFTY, respectively, to 17 reflect cost levels the Company is expected to incur in those years. The inflation factors 18 were derived from the 2022 and 2023 Blue Chip forecasts of the average annual Gross 19 Domestic Product ("GDP") Price Indices. Ms. O'Malley explains in more detail the GDP 20 Price Indices the Company is using in this filing.

1 <u>Purchased Power Expense</u>

2 Q. Please explain the methodology used to forecast purchased power expense.

3 A. Purchased power expense is incurred for treating, pumping and delivering water and 4 collecting and treating wastewater. In order to forecast purchased power expense, HTY 5 expenses were adjusted to remove closed accounts and credit balances, to annualize 6 electricity expense for active accounts, and to reflect known changes in the prices charged 7 by the Company's electricity generation suppliers ("EGSs") and in the rates of the electric 8 distribution companies ("EDCs") that furnish distribution service. Changes experienced 9 during the HTY and projected to occur during the FTY and FPFTY were used to derive the 10 expense levels for those years. Additionally, adjustments were made to annualize 11 electricity expenses for Royersford Wastewater to reflect a full year of costs for the FTY 12 because the Company acquired the system in 2021.

13 The Company has contracted with multiple EGSs to supply the Company's electric 14 generation through 2023. I used the prices under those contracts to calculate electric 15 expense for the FTY and FPFTY, including rate reductions effective during those periods 16 under new contracts that the Company successfully obtained through its competitive 17 procurement process described by PAWC witness Jim Runzer in PAWC Statement No. 2. 18 For the distribution and transmission portions of the Company's bills, the applicable EDC's 19 distribution and transmission rates and applicable riders and surcharges/credits in effect as 20 of December 31, 2021 were reflected to determine total purchase power expense. The 21 purchased power adjustments are summarized in Exhibit No. 3-A, and supporting 22 workpapers are provided in Exhibit No. 3-B.

1 <u>Purchased Water Expense</u>

2 Q. Please explain the methodology used to forecast purchased water expense.

3 A. Purchased water expense is composed of two components, contractual usage and 4 diversion rights. The annualized usage levels from all contracted suppliers in the HTY were priced at the applicable supplier's rates effective in the FTY, and those rates were 5 6 used to annualize purchased water expense for the FTY. For the FTY, diversion rights 7 expenses in the HTY, which are not based on contracted annual pricing terms or usage 8 levels, were adjusted by the inflation factor of 4.03%. For the FPFTY all purchased water 9 expenses as of the FTY were increased by the inflation factor of 2.48%. The purchased 10 water adjustments are summarized in Exhibit No. 3-A and supporting workpapers are provided in Exhibit No. 3-B. 11

12 Chemical Expense

13 Q. Please explain the methodology used to forecast chemical expense.

14 A. PAWC uses various chemicals for water and wastewater treatment. In order to obtain the 15 best available pricing, the Company participates in American Water's system-wide competitive bidding process and enters into unit-price contracts with the successful bidders 16 17 for the chemicals needed at its water and wastewater treatment facilities throughout 18 Pennsylvania. Chemical usage levels were adjusted in three respects. First, adjustments 19 were made to eliminate the chemicals that are no longer being used as of January 2022 and 20 to add chemicals the Company will begin using for the first time in 2022. Second, usage 21 was increased to reflect the chemicals that are needed at the treatment plants associated 22 with the following systems which were acquired in 2021: Delaware Sewer Company, 23 SLIBCO, Valley Water and Wastewater, and Royersford Wastewater. Third, usage levels

2

were adjusted based on known and measurable changes that occurred in the HTY or changes that are projected to occur in the FTY and FPFTY.

3 Contract prices effective at January 1, 2022, were applied to the adjusted levels of chemical 4 usage to project the FTY expense claim. Due to current volatility in the market for 5 chemicals, many vendors have deviated from annual contracts and have moved to quarterly 6 or semi-annual contracts. As a result, usage for the FTY was broken down quarterly and 7 the expense was adjusted by the annual inflation factor of 4.03% (1.01% quarterly) for 8 those contracts scheduled to expire in 2022 and due for renewal. To determine chemicals 9 expense for the FPFTY, FTY chemical costs were increased by 15.55% based on input 10 from our suppliers and indexes related to current volatility in the market. Challenges being 11 faced today such as national driver shortages and shortages in shipping containers and 12 chloride gas cylinders are predicted to continue well into 2023. If the Company enters into 13 new unit-price chemical contracts before the close of the record in this case, it will update 14 its claims to reflect any material price changes. The adjustments for chemical expenses for 15 all of the Company's water and wastewater systems are summarized in Exhibit No. 3-A, 16 and supporting workpapers are included in Exhibit No. 3-B.

17 Change in Consumption

18 Q. Please explain the adjustment necessary to account for changes in customer water 19 consumption.

A. Exhibit No. 3-A sets forth an adjustment to operating expenses to reflect changes in power
 and chemical costs due to changes in pro forma water consumption, including the decline
 in residential and commercial usage discussed in detail by Mr. Rea in PAWC Statement

No. 10. The adjustment was calculated by computing the ratio of HTY power and chemical
 costs to actual HTY consumption. This ratio was then applied to the projected change in
 consumption between the HTY and FTY, and the FTY and FPFTY. The adjustment was
 applied to both existing water and wastewater operations. Supporting details are included
 in Exhibit No. 3-B.

6 <u>Transportation Expense</u>

7 Q. Please explain the methodology used to forecast transportation expense.

8 A. Transportation expense includes the fleet management cost per vehicle, costs for fuel 9 expense, titling and registration fees, maintenance expense, and reimbursement for 10 Company use of personal vehicles. The forecast of the fleet management expense is based 11 on the number of vehicles claimed in FTY and FPFTY. The changes in the number of 12 vehicles from the HTY level are reflected in the forecast of costs for fuel expense, titling 13 and registration fees, and maintenance expense. Additionally, these costs, along with the 14 reimbursement for personal use of Company vehicles, were adjusted by the inflation factors 15 for the FTY (4.03%), and FPFTY (2.48%). A portion of the transportation costs is 16 capitalized and, therefore, excluded from O&M expense. The Company's adjustments to 17 transportation expense are shown in Exhibit No. 3-A. Detailed supporting calculations are 18 provided in Exhibit No. 3-B.

- 19
- Q. Was there a pro forma adjustment that specifically relates to the cost of gasoline used
 to operate the fleet?

1 A. Yes. The Company proposes an increase for the cost of gasoline due to information 2 obtained from the Energy Information Administration, which contains the official energy statistics of the U.S. Government.¹ The Company used the Central Atlantic (PADD 1B) 3 4 for the Weekly Central Atlantic Regular All Formulations Retail Gasoline Prices (Dollars 5 per Gallon) to calculate the average price for 2022 as of March 28, 2022 over the average annual price for the twelve months ended December 31, 2021 to obtain an increase of 6 7 \$0.67 per gallon, or 21.91%.

8

Insurance Other Than Group

9 **Q**. Please explain the methodology used to forecast insurance other than group 10 insurance.

11 PAWC incurs costs related to several types of insurance, including Auto Liability, General A. 12 Liability, Excess Liability and Workers' Compensation. The Company also has other 13 policy coverages such as Directors and Officers Liability, Employment Practices and 14 Cyber Crime policies. The FTY expense represents an increase from the HTY based upon 15 a number of drivers. The HTY was adjusted using insurance premiums actually incurred, 16 and projected to occur, during the twelve months ending December 31, 2022, adjusted by the five-year average of actual retroactive adjustments. An equipment discount credited 17 18 against Insurance Other than Group expense was moved to a regulatory liability in the HTY 19 and the associated amortization is reflected as a deduction from rate base, as discussed by 20 PAWC witness Gress in Statement No. 4. The FTY expenses were then adjusted by 21 applying a five-year average of 6.44% with exception of claims amounts which were held

¹ See https://www.eia.gov/petroleum/gasdiesel/.

1		at 2022 levels to arrive at the FPFTY costs. Next, the new Workers' Compensation
2		premium costs were multiplied by the capitalization rate to eliminate the portion of that
3		cost not charged to operating expenses. The insurance other than group expense for FTY
4		and FPFTY was allocated between water and wastewater operations based on allocation
5		Factor 4 (Depreciated Utility Plant in Service). The development of the capitalization
6		percentage and the factors used to allocate common costs between water and wastewater
7		operations is discussed in further detail by Company witnesses Gress (PAWC Statement
8		No. 4) and O'Malley (PAWC Statement No. 5). The Company's adjustments to insurance
9		other than group expense are shown in Exhibit No. 3-A. Detailed supporting calculations
10		are provided in Exhibit No. 3-B.
11	<u>Rent</u>	Expense
12	Q.	Please explain the Company's adjustment to rent expense.
13	A.	The Company's specific adjustments to rent expense reflect changes projected to occur in
14		the FTY and FPFTY in current lease agreements for water and combined sewer system
15		operations. The Company's adjustment to rent expense is shown in Exhibit No. 3-A.
16		Detailed supporting calculations are provided in Exhibit No. 3-B.

17 Q. Does this conclude your direct testimony at this time?

18 A. Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY		
COMMISSION		
	3	
v.	4	DOCKET NOS. R-2022-3031672 (WATER)
	:	R-2022-3031673 (WASTEWATER)
PENNSYLVANIA-AMERICAN WATER	1	,
COMPANY	3	

VERIFICATION

I, Thomas Markward, hereby state that the facts set forth in the pre-marked Statement No. 6 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Thomas Markward

Statement No. 7 Grundusky

PAWC STATEMENT NO. 7

DIRECT TESTIMONY OF BERNARD J. GRUNDUSKY, JR.

WITH REGARD TO PENNSYLVANIA-AMERICAN WATER COMPANY'S ACQUISITIONS AND WASTEWATER CAPACITY RESERVATION FEE DISCOUNT

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

<u>PENNSYLVANIA-AMERICAN WATER COMPANY</u> <u>DIRECT TESTIMONY OF BERNARD J. GRUNDUSKY, JR.</u>

1		INTRODUCTION
2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS FOR THE RECORD.
3	А.	My name is Bernard J. Grundusky, Jr. and my business address is 852 Wesley Drive,
4		Mechanicsburg, Pennsylvania 17055.
5	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
6	А.	I am employed by Pennsylvania-American Water Company ("PAWC" or the "Company")
7		as the Senior Director of Business Development.
8	Q.	WHAT ARE YOUR RESPONSIBILITIES AS PAWC'S SENIOR DIRECTOR OF
9		BUSINESS DEVELOPMENT?
10	А.	I develop and maintain necessary contacts to stay abreast of new business opportunities.
11		In addition, I guide the business development team in the preparation of proposals, policies,
12		strategies, and closings for acquisitions, and other related business ventures. Finally,
13		I participate in developing PAWC's short- and long-range plans. These responsibilities
14		necessitate that I maintain a working knowledge of regulatory and technical developments,
15		new technologies and current trends as they affect the water and wastewater utility
16		industries, and that I be familiar with legislation, regulation and public policy affecting
17		business opportunities.
18	Q.	PLEASE DESCRIBE YOUR PROFESSIONAL EDUCATION AND EXPERIENCE.
19	А.	I received a Bachelor of Science (B.S.) degree in Accounting from Pennsylvania State
20		University in August of 1990 and a Master of Business Administration degree (MBA) from

1 Lebanon Valley College in 1995. My experience in the waterworks industry began in 2 March 1991 when I was employed as a Rate Analyst in the Rates and Revenue Department 3 of the American Water Works Service Company. As a Rate Analyst, I was responsible for 4 preparing financial analyses and written testimony to support PAWC rate increase requests. 5 On July 1, 1995, I was promoted to Senior Rate Analyst. On October 16, 1996, I was 6 promoted to Financial Analyst in PAWC's Administration Department. My principal 7 duties in that capacity included the preparation and administration of the revenue, operating 8 and maintenance budgets and assistance in the preparation of the capital budgets; the 9 review of results of operations by budget categories; and the annual review and refinement 10 of budgeting techniques. On July 1, 1997, I was promoted to Intermediate Financial 11 Analyst, and, on July 1, 1998, I was promoted to Senior Financial Analyst. On January 1, 12 1999, I transferred to PAWC's Business Development Department. On July 1, 2000, I was 13 promoted to Manager of Business Development. On April 1, 2009, I was promoted to the position of Senior Manager of Business Development for PAWC. On September 30, 2013, 14 15 I was promoted to the position of Director of Business Development for PAWC. On 16 May 21, 2018, I was promoted to Senior Director of Business Development. I have been 17 in that position since then and am currently the Senior Director of Business Development. 18 HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PENNSYLVANIA Q. 19 **PUBLIC UTILITY COMMISSION ("COMMISSION")?** 20 A. Yes. I have previously testified before the Commission as a company witness for several rate cases in the early to mid-1990's and as a company witness for PAWC's 2013, 2017 21 22 and 2020 base rate case filings. I also testified before the Commission as a company

23 witness in PAWC's acquisition of The Borough of New Cumberland wastewater system at

1		Docket No. A-2016-2544151, PAWC's acquisition of The Sewer Authority of the City of
2		Scranton at Docket No. A-2016-2537209, PAWC's acquisition of the Municipal Authority
3		of the City of McKeesport wastewater system at Docket No. A-2017-2606103, PAWC's
4		acquisition of the Exeter Township wastewater system at Docket No. A-2018-3004933 and
5		recently in PAWC's acquisition of the City of York's wastewater system at Docket No.
6		A-2021-3024681.
7	Q.	WHAT IS THE SCOPE OF YOUR TESTIMONY?
8	A.	I will discuss the water and wastewater system acquisitions that PAWC has included in
9		this base rate case and the Company's proposed wastewater economic development
10		capacity reservation fee discount.
11		ACQUISITIONS INCLUDED IN THIS BASE RATE CASE
12	Q.	WHAT ACQUISITIONS ARE BEING INCLUDED FOR THE FIRST TIME IN
13		BASE RATES IN THIS BASE RATE CASE?
14	А.	PAWC has included the following acquisitions in this base rate case:
15		
16		(1) Borough of Royersford (wastewater);
		 Borough of Royersford (wastewater); Valley Township Water;
17		
17 18		(2) Valley Township Water;
		(2) Valley Township Water;(3) Valley Township Wastewater;
18		 (2) Valley Township Water; (3) Valley Township Wastewater; (4) SLIBCO Utilities, Inc (water);
18 19		 (2) Valley Township Water; (3) Valley Township Wastewater; (4) SLIBCO Utilities, Inc (water); (5) Upper Pottsgrove Township (wastewater);
18 19 20		 (2) Valley Township Water; (3) Valley Township Wastewater; (4) SLIBCO Utilities, Inc (water); (5) Upper Pottsgrove Township (wastewater); (6) City of York (wastewater);

PAWC also completed the following water and wastewater system acquisitions since its last base rate case: Kane Borough Authority (wastewater), Delaware Sewer Company (wastewater) and Winola Water Company (water). However, those acquisitions were reflected in the base rates established by the Commission-approved settlement of PAWC's 2020 base rate case.¹

6

Q. PLEASE PROVIDE A DETAILED DESCRIPTION OF THESE ACQUISITIONS.

7 A. **Borough of Royersford ("BOR")** – The BOR wastewater collection and treatment system

8 (the "BOR System") was acquired by PAWC on May 25, 2021. The BOR System consists 9 of a wastewater collection system and wastewater treatment plant (WWTP) that provides 10 wastewater service to approximately 1,600 customers in Royersford and 16 customers in 11 Upper Providence Township. In addition, the BOR System provides service to customers 12 in Limerick Township via a bulk service interconnection located in Royersford. PAWC 13 provides the water service to BOR customers.

14 The public benefits of this acquisition include promotion of the Commission's 15 policy favoring regionalization and consolidation of water/wastewater systems and the 16 General Assembly's policy goals when it enacted Section 1329; Commission regulation of 17 the system, giving customer access to the Commission, the Office of Consumer Advocate 18 ("OCA"), the Bureau of Investigation and Enforcement ("I&E"), and the Office of Small 19 Business Advocate ("OSBA"); improvements to the BOR System by PAWC post-closing 20 to address both service and environmental issues; enhanced customer service and customer 21 assistance programs.

¹ See Pa. P.U.C. v. Pennsylvania-American Water Co., Docket Nos. R-2020-3019369 and R-2020-3019371 (Joint Petition for Non-Unanimous Settlement of Rate Investigation approved by Opinion and Order entered Feb. 25, 2021), Appendix E (Amortizations).

1 The Commission approved this acquisition by Opinion and Order entered May 7, 2 2021 at Docket No. A-2020-3019364. Pursuant to 66 Pa. C.S. § 1329(c), the Commission 3 approved a rate base addition of \$13,000,000 associated with PAWC's acquisition of the 4 BOR System. Consistent with the Asset Purchase Agreement between BOR and the 5 Company and the Commission's May 7, 2021 Opinion and Order, as explained in the direct 6 testimony of Company witness Stacy D. Gress (PAWC Statement No. 4), PAWC has 7 proposed that the rate increase for BOR customers would not be effective until two years 8 following the closing date or May 25, 2023.

9 Valley Township – Wastewater ("VTWW") – The VTWW wastewater collection system
10 ("VTWW System") was acquired on November 19, 2021. The VTTW System is a
11 wastewater collection system serving approximately 2,900 customers in Valley Township
12 and limited portions of East Fallowfield, Sadsbury and West Caln Townships, Chester
13 County, Pennsylvania. It is a sanitary-only collection system.

14 The VTWW System is interconnected with PAWC's existing Coatesville 15 wastewater system, and all sewage collected by the VTWW System ultimately flows into 16 PAWC's Coatesville system for treatment and disposal. Valley Township had been a bulk 17 wastewater customer of PAWC since PAWC's acquisition of the City of Coatesville 18 Authority's water and wastewater system assets in March 2001. As the VTWW System is 19 interconnected with PAWC's Coatesville wastewater system, the VTWW System is 20 operated and managed by PAWC's Coatesville operations.

The public benefits of this transaction include: promotion of the Commission's policy favoring regionalization and consolidation of water/wastewater systems and the General Assembly's policy goals when it enacted Section 1329; Commission regulation of

the system, giving customers access to the Commission, the OCA, I&E, and the OSBA; and enhanced customer service and customer assistance programs.

2

3 The Commission approved this acquisition by Opinion and Order entered October 4 28, 2021 at Docket No. A-2020-3020178. Pursuant to 66 Pa. C.S. § 1329(c), the 5 Commission approved a rate base addition of \$13,950,000 associated with PAWC's 6 acquisition of the VTWW System. As explained by Ms. Gress, consistent with the Asset 7 Purchase Agreement between Valley Township and the Company and the Commission's 8 October 28, 2021 Opinion Order, PAWC has proposed that the rate increase for VTWW 9 customers would not be effective until two years following the closing date or November 10 19, 2023.

Valley Township – Water ("VTW") – The VTW water system ("VTW System") was acquired on November 19, 2021. The VTW System provides water service to approximately 1,670 customers in a Valley Township and limited portions of West Caln and East Fallowfield Townships, Chester County, Pennsylvania. The VTW System is supplied by Township-owned wells and bulk water purchased from PAWC. Valley has a water treatment plant, a 150,000-gallon elevated tank, and approximately twenty-two miles of water mains. The water sources and the water system customers are metered.

18 The VTW System is interconnected with PAWC's existing Coatesville water 19 system. Valley Township had been a bulk water customer of PAWC since PAWC's 20 acquisition of the City of Coatesville Authority's water and wastewater system assets in 21 March 2001. The VTW System is operated and managed by PAWC's Coatesville 22 operations. 1 The public benefits of this transaction include: promotion of the Commission's 2 policy favoring regionalization and consolidation of water/wastewater systems and the 3 General Assembly's policy goals when it enacted Section 1329; Commission regulation of 4 the system, giving customers access to the Commission, the OCA, I&E, and the OSBA; 5 and enhanced customer service and customer assistance programs.

6 The Commission approved this acquisition by Opinion and Order entered October 7 28, 2021 at Docket No. A-2020-3019589. Pursuant to 66 Pa. C.S. § 1329(c), the 8 Commission approved a rate base addition of \$7,325,000 associated with PAWC's 9 acquisition of the VTW System. As explained by Ms. Gress, consistent with the Asset 10 Purchase Agreement between Valley Township and the Company and the Commission's 11 October 28, 2021 Order, PAWC has proposed that the rate increase for VTW customers 12 would not be effective until two years following the closing date or November 19, 2023.

13 SLIBCO Utilities, Inc ("SUI") - The SUI water system ("SUI System") was acquired on 14 November 19, 2021. SUI is a nonprofit, nonstock corporation and was organized by the 15 Scranton Lackawanna Industrial Building Company to own and manage a water 16 distribution system that provides water service to eight commercial customers and six fire 17 hydrants within the Glenmaura Corporate Center in Moosic Borough and the City of Scranton. The SUI System assets include approximately 1,800 feet of 16-inch diameter 18 19 ductile iron main, 5.570 feet of 12-inch diameter ductile iron cement lined main, six and 20 eight-inch diameter ductile iron service lines, eight meters, two 16-inch diameter gate 21 valves, five 12-inch diameter gate valves, six fire hydrants, one 410,000-gallon storage 22 tank, 1.8 acres of land, easements and other appurtenances. The SUI System is

1	interconnected with and obtains water from PAWC's Scranton water system. The SUI
2	System is operated and managed by PAWC's Scranton water system operations.
3	The public benefits of this transaction include: promotion of the Commission's
4	policy favoring regionalization and consolidation of water/wastewater systems;
5	Commission regulation of the system, giving customers access to the Commission, the
6	OCA, I&E and the OSBA.
7	The Commission approved this acquisition by Order entered November 15, 2021
8	at Docket No. A-2020-3023369. The purchase price for the SUI System was \$1.
9	5. Upper Pottsgrove Township ("UPT") – UPT is a First Class Township that owns
10	and operates a wastewater collection system ("UPT System"). The UPT System provides
11	wastewater service to approximately 1,500 customers in Upper Pottsgrove Township,
12	Montgomery County and small portion of Douglass Township, Berks County,
13	Pennsylvania. The UPT System consists of a sewer collection system with four pump
14	stations. It has approximately 71,500 ft. of sewer main, and approximately 480 manholes.
15	It is a sanitary-only collection system. UPT is party to an agreement with the Borough of
16	Pottstown and Pottstown Borough Authority (together, "PBA") pursuant to which UPT's
17	wastewater flow is transported to PBA's treatment plant for treatment and disposal. At
18	closing, PAWC will take assignment of the PBA agreement through an assignment and
19	assumption agreement with PBA and UPT which has been filed with the Commission
20	pursuant to 66 Pa. C.S. § 507 and issued a Certificate of Filing. The UPT wastewater
21	system will be operated and managed by PAWC's Royersford and Exeter wastewater
22	system operations.

The public benefits of this acquisition include: promotion of the Commission's policy favoring regionalization and consolidation of water/wastewater systems and the General Assembly's policy goals when it enacted Section 1329; Commission regulation of the system, giving customers access to the Commission, the OCA, I&E, and OSBA; improvements to the system post-closing, addressing both service and environmental issues; and enhanced customer service and customer assistance programs.

The Commission approved this acquisition by Order entered September 15, 2021 at Docket No. A-2020-3021460. Pursuant to 66 Pa. C.S. § 1329(c), the Commission approved a rate base addition of \$13,7500,000 associated with PAWC's acquisition of the UPT wastewater system. The acquisition is expected to close during the second quarter of 2022.

12 York City Sewer Authority ("York") - PAWC's application to acquire the City of 13 York/York City Sewer Authority wastewater collection, conveyance and treatment system 14 ("York System") was approved by the Commission by Order entered April 14, 2022 at 15 Docket No. A-2021-3024681 ("York Order"). As discussed below, PAWC has included 16 this acquisition in the instant base rate case because this proceeding is PAWC's "next" 17 base rate case after closing on the acquisition. The York Order establishes the amount that PAWC is to include in its rate base in its "next" base rate case as a result of the acquisition. 18 19 Additionally, it is prudent and fair for the Commission to integrate the York System into 20 the larger PAWC system, and to address expenses associated with the operation and 21 maintenance of the system, as soon as reasonably possible to avoid regulatory lag.

22 The York System is a sanitary wastewater system that provides wastewater to the 23 City of York and treatment and conveyance service to several surrounding municipalities.

1 The York System is comprised of a 26 million gallon per day treatment plant, 2 approximately 65,000 linear feet of interceptor mains and approximately 489,000 linear 3 feet of collection mains and other system assets. The York system serves approximately 4 13,800 direct customers and approximately 30,000 indirect customers served by the 5 surrounding municipalities served under bulk municipal agreements. The municipalities 6 receiving bulk treatment and conveyance services are: Manchester, West Manchester, 7 Spring Garden, York and Springettsbury Townships, North York and West York Borough, 8 York County Pennsylvania. The West York Borough sewer system was acquired by the 9 York Water Company in 2016. PAWC has negotiated new Wastewater Treatment and 10 Conveyance agreements with Manchester, West Manchester, Spring Garden and York 11 Townships, North York Borough and York Water Company, as well as a new agreement 12 with Springettsbury Township. The six Wastewater Treatment and Conveyance Agreements and the Springettsbury Township agreement have been filed with the 13 14 Commission pursuant to 66 Pa. C.S. § 507 for issuance of Certificates of Filing.

Public benefits of the transaction include: promotion of the Commission's policy favoring regionalization and consolidation of water/wastewater systems and the General Assembly's policy goals when it enacted Section 1329; Commission regulation of the system; giving customers access to the Commission, the OCA, the I&E and the OSBA; and enhanced customer service and customer assistance programs for York's customers. PAWC will also make capital improvements to the system to address service and environmental issues.

The York Order approves the amount agreed to in settlement to be added to PAWC's rate base, as a result of the acquisition, which is \$231,500,000. The transaction

is expected to close while the record is still open in this proceeding. Including the York
 acquisition in the instant proceeding, rather than forcing PAWC to wait until the following
 base rate case, will significantly reduce regulatory lag, thereby mitigating one factor that
 hinders municipal acquisitions pursuant to Section 1329.

5 **Foster Township ("FT")** – Wastewater – FT is a Second Class township which owns, 6 maintains and operates a wastewater collection system on the west end of Foster Township 7 ("FT West End System"), Luzerne County, Pennsylvania. Currently pending before the Commission is PAWC's application pursuant to 66 Pa. C.S. §1102 for approval to acquire 8 9 the FT West End System. The FT West End System provides wastewater service to 10 approximately 544 active customer premises. Wastewater treatment is provided by the 11 Borough of Freeland Municipal Authority pursuant to a bulk treatment agreement which 12 will be assumed by PAWC at closing. The FT West End System is a sanitary-only 13 collection system with four pump stations. It has approximately 55,000 ft. of sewer pipe 14 and approximately 231 manholes. The FT West End System will be operated and managed 15 by PAWC's Scranton wastewater operations.

16 The public benefits of this transaction include: promotion of the Commission's 17 policy favoring regionalization and consolidation of water/wastewater systems; the system 18 is now subject to Commission regulation, giving customers access to the Commission, the 19 OCA, I&E, and the OSBA; and enhanced customer service and customer assistance 20 programs. Consistent with the Asset Purchase Agreement between Foster Township and 21 PAWC, PAWC has proposed that the rate increase for FT customers would not be effective 22 until January 1, 2025.

1	PAWC filed its Application for Commission approval to acquire the FT West End
2	System on September 22, 2021 at Docket No. A-2021-3028676. The protest period has
3	expired and there were no protests filed. The Application is under review by the
4	Commission's Bureau of Technical Utility Services ("TUS"). PAWC plans to close the
5	transaction shortly after it receives Commission approval. The purchase price for the
6	system is \$3,750,000. PAWC has filed an original cost study to determine the original cost
7	and accumulated depreciation of the FT West End System. The original cost study will
8	be updated after closing to reflect the original cost and accumulated depreciation as of the
9	closing date. PAWC will pay less than the depreciated original cost of the assets, therefore,
10	PAWC is proposing to amortize the difference between what was paid and the cost of the
11	assets, thus lowering expenses for the Company's existing customers.
12	PAWC has included this acquisition in the instant base rate case because the
10	

Company expects the transaction to close in mid-2022 while the record is still open in this proceeding. If approved by the Commission, the transaction will most certainly close before the end of the fully projected future test year ("FPFTY") ending December 31, 2023. Additionally, it is prudent and fair for the Commission to integrate the FT West End System into the larger PAWC system, and to address expenses associated with the operation and maintenance of the system, as soon as reasonably possible to avoid regulatory lag.

Creekside Homeowners Association ("Creekside") – Water – Currently pending before
 the Commission is PAWC's application to acquire the Creekside water distribution and
 treatment system ("Creekside System") pursuant to 66 Pa. C.S. § 1102. Creekside
 Development is a residential development in Providence Township, Lancaster County.
 The Creekside Homeowners Association owns, maintains and operates the water system

in Creekside Development. The Creekside water system is comprised of two wells, a
 storage tank and a treatment facility, water distribution mains and private fire hydrants
 currently serves approximately 25 residential customers as part of Phase 1 of the Creekside
 Development.

5 Public benefits of the transaction include promotion of the Commission's policy 6 favoring regionalization and consolidation of water/wastewater systems; the system will 7 become subject to Commission regulation, giving customers access to the Commission, the 8 OCA, the I&E and the OSBA; and enhanced customer service and customer assistance 9 programs for Creekside's customers.

10 PAWC filed its Application for Commission approval of the Creekside acquisition 11 on February 23, 2022 at Docket No. A-2022-3031020. The protest period has expired and 12 there were no protests. TUS is currently reviewing the Application and PAWC plans to 13 close the transaction shortly after it receives Commission approval. The purchase price for 14 the system is \$151,580.16. PAWC has filed an original cost study to determine the original 15 cost and accumulated depreciation of the Creekside water system. The original cost study 16 will be updated after closing to reflect the original cost and accumulated depreciation as of 17 the closing date. PAWC will pay less than the depreciated original cost of the assets, 18 therefore, PAWC is proposing to amortize the difference between what was paid and the 19 cost of the assets, thus lowering expenses for the Company's existing customers.

20 PAWC has included this acquisition in the instant base rate case because the 21 Company anticipates that the transaction will close while the record is still open in this 22 proceeding. Unless the acquisition is not approved by the Commission, the transaction will 23 most certainly close before the end of the FPFTY. Additionally, it is prudent and fair for

the Commission to integrate the Creekside System into the larger PAWC system, and to
 address expenses associated with the operation and maintenance of the system, as soon as
 reasonably possible to avoid regulatory lag.

4 Q. DID THE COMPANY PAY ANY OF VALLEY TOWNSHIP'S LEGAL OR 5 ENGINEERING FEES INCURRED AS PART OF THE TRANSACTION?

A. Yes, pursuant to the Asset Purchase Agreements with Valley Township Water and
Wastewater, the Company paid \$70,000 in connection with its acquisition of the Valley
Township water system and \$70,000 in connection with its acquisition of the Valley
Township wastewater system for a total of \$140,000 as reimbursement for engineering and
legal fees incurred related to each transaction.

Q. IS THE COMPANY SEEKING TO RECOVER THE ENGINEERING AND LEGAL FEES REIMBURSED TO VALLEY TOWNSHIP?

A. Yes. Valley Township's engineering and legal fees are part of the transaction and closing
 costs of the acquisition and are appropriately included in rate base as a cost of organization
 of newly acquired service territory to be charged to NARUC Account 301.

16 Q. PLEASE DESCRIBE ANY COMMISSION-APPROVED SETTLEMENT 17 COMMITMENTS FOR EACH OF THE ABOVE-REFERENCED ACQUISITIONS 18 THAT RELATE TO THE INSTANT BASE RATE FILING AND YOUR 19 UNDERSTANDING OF HOW THE FILING COMPLIES WITH THOSE 20 COMMITMENTS.

A. At the outset, it should be noted that, in the settled Section 1329 proceedings discussed
above (BOR, VTW, VTWW, UPT and York), PAWC, the statutory advocates, and the

other parties to the proceedings agreed that PAWC could include certain amounts in rate
 base in this proceeding as a result of Section 1329 acquisitions. The Commission approved
 those agreements. Additionally, customer notice was provided to the acquired customers
 and PAWC's legacy customers in the application proceedings. As a result, rate base issues
 related to the Section 1329 acquisitions should not be re-litigated in this proceeding.

6 On other issues resolved in the settled Section 1329 proceedings discussed above 7 (such as transaction and closing costs, accrual of Allowance for Funds Used During 8 Construction ("AFUDC") for post-acquisition improvements not recovered through the 9 Distribution System Improvement Charge ("DSIC") for book and ratemaking purposes, 10 and deferred depreciation related to post acquisition improvements not recovered through 11 the DSIC for book and ratemaking purposes), PAWC, the statutory advocates and the other 12 parties to the proceedings only agreed that PAWC could include a claim for those expenses 13 in this proceeding. On those issues, the parties reserved their rights to litigate the 14 reasonableness of those claimed expenses. Nevertheless, I note that Section 1329 expressly 15 permits the recovery of such expenses.

Additionally, it should be noted at the outset that PAWC included claims in this proceeding relating to the acquisition of UPT, York, FT and Creekside. PAWC, at the time of filing of this rate case, also provided notice of this rate case to customers of those entities even though closing on those acquisitions has not yet occurred.

BOR – The instant base rate filing includes an additional base rate amount of \$13,000,000 for this acquisition, as agreed-to by the parties and approved by the Commission. The instant base rate filing also includes a cost-of-service study that removes all costs and revenues associated with the operations of the BOR system, as well as a cost-of-service

study for the BOR system. The instant base rate case also reflects claims for rate recovery 2 of the BOR transaction and closing costs delineated on Exhibit No. 3-A, as well as PAWC's 3 outside legal fees associated with the BOR acquisition identified on Exhibit No. 3-C.

1

4 In the settlement, PAWC agreed to establish a rate zone for BOR and to move the 5 BOR system to its cost of service or 1.7 times the current BOR wastewater rates, whichever 6 is lower, provided that such rates for BOR customers do not exceed the proposed Rate 7 Zone 1 system-average wastewater rate. In this case, PAWC has proposed an increase equal to 1.7 times the current BOR wastewater rates. Please refer to Ms. Gress' direct 8 9 testimony for the proposed increases.

10 VTW – The instant base rate filing includes a \$7,325,000 addition to rate base as a result 11 of this acquisition, as agreed-to by the parties and approved by the Commission. The 12 instant base rate filing also includes a request for the recovery of transaction and closing costs related to the VTW acquisition, separately identifying PAWC's outside legal fees. 13 14 Please refer to Exhibit No. 3-A for the request for transaction and closing costs and Exhibit 15 No. 3-C for identification of outside legal expenses for each Section 1329 acquisition included in this rate case. 16

17 In the settlement, PAWC agreed to propose to increase the rates of the VTW System to an amount equal to 2.0 times the current Valley Township water rates or PAWC's 18 19 proposed Rate Zone 1 system-average water rates, whichever is lower. The parties further 20 agreed that PAWC may propose an effective date for new rates for Valley water customers 21 that is different from the effective date of new rates for other customers. In this case, 22 PAWC has proposed an increase equal to 2.0 times the current VTW rates to become 23 effective on November 19, 2023.

1 **VTWW** – The instant base rate filing includes an \$13,950,000 addition to rate base as a 2 result of this acquisition, as agreed-to by the parties and approved by the Commission. The 3 instant base rate filing also includes a request for the recovery of transaction and closing 4 costs related to the VTWW acquisition, separately identifying PAWC's outside legal fees. 5 In the settlement, PAWC agreed to increase the rates of the VTWW System to an 6 amount equal to 1.25 times the current Valley wastewater rates or PAWC's proposed Rate 7 Zone 1 system-average wastewater rates, whichever is lower. The parties further agreed 8 that PAWC may propose an effective date for new rates for Valley wastewater customers 9 that is different from the effective date of new rates for other customers. In this case, 10 PAWC has proposed an increase equal to 1.25 times the current VTWW rates to become 11 effective on November 19, 2023. 12 **UPT** – The base rate filings include a \$13,750,000 addition to rate base as a result of this 13 acquisition, as agreed-to by the parties and approved by the Commission. In addition, 14 PAWC has prepared a cost-of-service study that removes all costs and revenues associated 15 with the operations of the UPT system, as well as a separate cost-of-service study for the 16 UPT System. The instant base rate case also includes a request for the recovery of 17 transaction and closing costs related to the UPT acquisition, separately identifying 18 PAWC's outside legal fees. 19 PAWC agreed that it will propose to move the UPT System to its cost-of-service 20 based on a separate cost of service study for the UPT System; provided, that PAWC will

1 system-average rates. In this base rate case, PAWC has proposed rates for UPT equal to
Zone 1 wastewater rates.

not propose wastewater rates for UPT customers in excess of PAWC's proposed Rate Zone

21

York – The instant base rate filing includes an additional to rate base in the amount of \$231,500,000 as a result of this acquisition, as agreed-to by the parties and approved by the Commission. Consistent with the settlement, this base rate filing also includes a costof-service study that removes all costs and revenues associated with the operations of the York System, as well as a separate cost-of-service study for the York System. The instant base rate case also includes a request for transaction and closing costs related to the York acquisition, separately identifying PAWC's outside legal fees.

8 In the settlement, PAWC agreed to establish a rate zone for York and to propose 9 moving the York System to 1.47 times the current York wastewater rates or PAWC's 10 proposed Rate Zone 1 system-average wastewater rates, whichever is lower. The parties 11 further agreed that PAWC may propose an effective date for new rates for the York System 12 that is different from the effective date of new rates for other customers provided that such 13 effective date is at least three years after closing. In this case, PAWC has proposed rates 14 1.47 times the current York System rates to be effective three years following the date the 15 acquisition closes, which PAWC anticipates will be in the second quarter of 2025.

16 Q. PLEASE EXPLAIN YOUR UNDERSTANDING OF THE PENNSYLVANIA 17 LEGISLATURE'S INTENT IN ENACTING SECTION 1329 OF THE CODE.

A. The General Assembly supported and encouraged the sale of municipal water and
 wastewater systems at valuation levels higher than traditional original cost measures.
 Some communities desire to monetize their assets to address other public needs. Due to
 the age of many municipal systems, however, traditional original cost measures produced
 very low sales prices, discouraging many transactions. By enabling the sale of municipal
 assets to public utilities at higher valuations, the General Assembly intended to encourage

these transactions. This result also promotes the regionalization and consolidation of water and wastewater systems. The Legislature also intended to improve the maintenance and replacement of public infrastructure, and to promote environmental stewardship, by facilitating transfers to public utilities with extensive technical expertise and financial resources.

6 Q. PLEASE EXPLAIN THE RATE-MAKING IMPLICATIONS OF A SECTION 1329 7 PROCEEDING.

8 A. In a Section 1329 proceeding, the Commission establishes the amount that the acquiring 9 public utility can put into rate base in its next base rate case as a result of the acquisition. 10 In addition, the acquiring utility can include a claim for transaction and closing costs 11 incurred because of the transaction in its next base rate case. The acquiring utility may also 12 accrue AFUDC for post-acquisition improvements not recovered through the DSIC for 13 book and ratemaking purposes and defer depreciation related to post acquisition 14 improvements not recovered through the DSIC for book and ratemaking purposes. Finally, 15 the selling utility's cost of service is to be incorporated into the revenue requirement of the 16 acquiring public utility during the acquiring company's next base rate case.

17 Q. WHAT IS YOUR UNDERSTANDING OF THE TERM "NEXT BASE RATE 18 CASE," AS USED IN SECTION 1329?

A. Section 1329(d)(5) states "The selling utility's cost of service shall be incorporated into
the revenue requirement of the acquiring public utility as part of the acquiring utility's next
base rate case proceeding." My understanding from PAWC counsel is that the statute
should be construed using the ordinary definition of "next," which is "in the time, place or

order nearest or immediately succeeding." Webster's New Collegiate Dictionary 774
(1977). So, for example, for the UPT acquisition, which was approved by the Commission
on September 15, 2021, and is expected to close in the second quarter of 2022, the instant
base rate case would be the "next" base rate case because PAWC's 2020 rate case was
concluded on February 25, 2021. Therefore, this is the first base rate case in which PAWC
should include UPT's assets.

Similarly, for the York acquisition, the Commission's order approving the acquisition was entered on April 14, 2022, and closing is expected to occur shortly thereafter. Since the instant proceeding will be ongoing at that time, for the York acquisition, the "next" base rate case will be the instant rate proceeding – this proceeding is the rate proceeding immediately following the Commission's approval of the acquisition and the company's closing on the acquisition. Therefore, this is the first base rate case in which PAWC should include York's assets.

14Q.BASED ON YOUR EXPERIENCE WITH THE IMPLEMENTATION OF15SECTION 1329 AND PAWC'S COMPLETED AND PENDING SECTION 132916ACQUISITIONS, WHY IS IT IMPORTANT TO AVOID DELAY IN INCLUDING17COMMISSION-APPROVED SECTION 1329 RATE BASE ADDITIONS IN RATE18BASE?

A. There can be a considerable delay between the date a public utility closes on a Section 1329
 acquisition (expending significant capital) and the date that the public utility is able to place
 the Commission-approved rate base addition for that transaction into rate base. The
 monetary impact is significant, considering the large investments that public utilities are

not able to recover for years. This regulatory lag provides a disincentive for an acquiring
 utility to engage in Section 1329 acquisitions, which undermines the Legislative intent
 behind Section 1329. Section 1329 would be ineffective if willing sellers could not find
 willing buyers, due to the lengthy delay between closing on a transaction and the recovery
 of those costs. The intended public benefits of acquisitions of municipal water and
 wastewater systems – including the monetization of municipal assets, regionalization and
 consolidation of systems, and remediation of environmental problems – are being impeded.

8 Q. DOES THE COMMISSION HAVE THE ABILITY TO ADDRESS THE PROBLEM 9 OF LAG IN RATE RECOVERY OF SECTION 1329 ACQUISITIONS?

Yes. The Commission should interpret Section 1329 to permit recovery for Section 1329 10 A. 11 acquisitions that close while a base rate case is pending. For example, with respect to the 12 York acquisition (as discussed above), the Commission should consider the instant base 13 rate proceeding to be the "next base rate case" under Section 1329(c)(1)(i) when rate base 14 for acquired system can be incorporated into the public utility's rate base. If the 15 Commission does not construe Section 1329 in a way that reduces regulatory lag and does 16 not permit public utilities to take the steps necessary to reduce regulatory lag, public 17 utilities may become less willing to engage in acquisitions or they may file base rate cases 18 more frequently. Neither result advances the public interest and the intent of the 19 Legislature in implementing Section 1329 would be impeded.

1		WASTEWATER CAPACITY RESERVATION FEE
2	Q.	IS THE COMPANY PROPOSING ANY CHANGES TO THE APPLICATION OF
3		THE CAPACITY RESERVATION FEE PROVISIONS SET FORTH AT PAGE 12
4		OF ITS WASTEWATER SERVICE TARIFF?
5	A.	Yes. PAWC is proposing tariff changes to limit the application of wastewater capacity
6		reservation fees to qualifying bulk customers. As shown in the proposed Wastewater
7		Tariff, PAWC is proposing to add a new provision that authorizes the Company to enter
8		into negotiated service agreements that establish discounted capacity reservation fees
9		designed to achieve flow stabilization and retain or attract bulk wastewater users for which
10		the customer has a viable alternative to service from the Company. These service
11		agreements will be subject to Commission review and approval.
12		CONCLUSION
13	Q.	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
14	A.	Yes. However, I reserve the right to supplement my testimony as additional issues or facts

15 arise during the course of this proceeding.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY		
COMMISSION	:	
	:	
ν.	:	DOCKET NOS. R-2022-3031672 (WATER)
		R-2022-3031673 (WASTEWATER)
PENNSYLVANIA-AMERICAN WATER		
COMPANY	:	

VERIFICATION

I, **Bernard J. Grundusky**, Jr., hereby state that the facts set forth in the pre-marked Statement No. 7 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Bernard J. Grundusky, Jr.

Statement No. 8 Ciullo

PAWC STATEMENT NO. 8

DIRECT TESTIMONY OF MELISSA CIULLO

WITH REGARD TO PENNSYLVANIA-AMERICAN WATER COMPANY'S INCOME TAXES, EXCESS ACCUMULATED DEFERRED INCOME TAX

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY

DIRECT TESTIMONY OF MELISSA CIULLO

1 Q. What is your name and business address?

A. My name is Melissa Ciullo. My business address is 1 Water Street, Camden New Jersey
08102.

4 Q. By whom are you employed, and in what capacity?

A. I am employed by American Water Works Service Company, Inc. as the Vice President of
Tax. I am responsible for management and oversight of the tax function for American
Water Works, Inc., and its consolidated subsidiaries, including Pennsylvania-American
Water Company ("PAWC" or the "Company").

9 Q. Please summarize your educational background and professional experience.

10 A. I graduated from Stockton College in 2001 with a Bachelor of Science Degree in Business 11 and a concentration in Accounting. I have a Master of Business Administration Degree in 12 Accounting and International Business from Rutgers University - Camden. I am a Certified 13 Public Accountant in the State of New Jersey. I have 20 years of experience as a tax and 14 accounting professional, including serving utilities with regulated operations in multiple 15 states. For the 12 years before my employment with American Water, I held various 16 positions with progressing responsibilities within the tax departments of utility holding 17 companies Exelon Corporation and PEPCO Holdings Inc. Prior to these roles, I was employed by the international accounting firm KPMG. 18

1 Q. Have you previously testified before any regulatory agencies? 2 A. I previously provided testimony to the Hawaii Public Services Commission. 3 What is the purpose of your testimony? **Q**. 4 A. My testimony addresses (1) the Company's computation of income tax expense in 5 compliance with Act 40 of 2016 ("Act 40"), which added Section 1301.1 to the 6 Pennsylvania Public Utility Code, and (2) the amortization of excess accumulated deferred 7 income taxes ("EADIT"). **Computation of Income Taxes Consistent With Act 40** 8 9 **Q**. What changes were made by Act 40? 10 Act 40 became law on June 12, 2016, and became effective on August 11, 2016. A. 11 Section 1301.1(a) specifies how the Commission is to compute income tax expense for 12 ratemaking purposes. In addition, Section 1301.1(b) states how any incremental internally-13 generated funds produced by the application of Section 1301.1(a) should be used by an affected utility pending the December 31, 2025 "sunset" of Section 1301.1(b). 14 15 Q. What does Section 1301.1 direct the Commission to do in calculating income tax 16 expenses for ratemaking purposes? 17 In summary, Section 1301.1(a) provides that current and deferred income taxes of a A. 18 Pennsylvania utility are to be calculated for ratemaking purposes based only on the income, 19 deductions, and credits of the utility itself. Therefore, the Commission may not calculate 20 a utility's current and deferred income taxes for ratemaking purposes by taking into account 21 income, deductions (including taxable losses), or credits of the utility's parent or affiliated 22 companies with which it joins in filing a consolidated Federal income tax return. This is

generally referred to as a "stand-alone" computation of income tax expense because it reflects income tax expense of the utility "standing alone" and without regard to the taxable income, deductions, or credits of other companies in the same consolidated group.

4 Q. How does Section 1301.1(a) change prior Commission practice?

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A. Section 1301.1(a) terminates the practice of making a "consolidated tax adjustment"
("CTA") when calculating a utility's Federal income taxes for ratemaking purposes in
Pennsylvania. As directed by prior decisions of Pennsylvania appellate courts,¹ the
Commission, until Act 40 became effective, was required to calculate CTAs employing the
"Modified Effective Tax Rate Method," which the Commission described as follows:
[U]nder the Modified Effective Tax Rate Method, which was approved
under *Barasch II, supra*, the consolidated tax savings generated by the non-

- regulated companies of a corporate group are allocated to the regulated and non-regulated members of the group having positive taxable incomes.²
- 15 As calculated under the Modified Effective Tax Rate Method, a CTA captured a portion of
- 16 the tax benefits of deductions including taxable losses of unregulated affiliates of public
- 17 utilities and gave those benefits to the utilities' customers (as lower income tax expense
- 18 than the utilities would have on a "stand-alone" basis), even though the utilities' customers
- 19 did not pay the expenses that gave rise to those tax benefits. With the enactment of Act 40,
- 20 Pennsylvania joined the vast majority of other jurisdictions, including the Federal Energy
- 21 Regulatory Commission, that do not make CTAs for ratemaking purposes.

¹ Barasch v. Pa. P.U.C., 493 A.2d 653 (Pa. 1985) ("Barasch I"); Barasch v. Pa. Pub. Util. Comm'n, 548 A.2d 1310 (Pa. Commw. Ct. 1988) ("Barasch II").

² Pa. Pub. Util. Comm'n v. Philadelphia Suburban Water Co., Docket No. R-00016750, et al., 2002 Pa PUC LEXIS 55, *90-91 (July 18, 2002).

1 **Q**. What does Section 1301.1(b) provide? 2 A. Section 1301.1(b) states as follows: 3 If a differential accrues to a public utility resulting from applying 4 the ratemaking methods employed by the commission prior to the 5 effective date of subsection (a) for ratemaking purposes, the differential shall be used as follows: 6 7 (1) fifty percent to support reliability or infrastructure 8 related to the rate-base eligible capital investment as determined by the commission; and 9 10 (2) fifty percent for general corporate purposes. 11 As I previously noted, Section 1301.1(c)(1) provides that Section 1301.1(b) will no longer 12 apply after December 31, 2025. 13 Q. Have you calculated the "differential" in income taxes referenced in Section 1301.1(b)? 14 A. Yes, the confidential response to Filing Requirement (FR) IV.14 sets forth the computation 15 16 of a CTA using the Modified Effective Tax Rate Method and data for tax years 2016 17 through 2020, which are the most recent five years for which tax returns have been filed. The second page of the calculation shows the "differential" in an amount of \$3.1 million 18 19 corresponding to the CTA calculated in the manner I described above. In addition, PAWC 20 witness Ashley E. Everette (PAWC Statement No. 1) addresses the Company's investment 21 of 50% of the differential in a manner that complies with Section 1301.1(b)(1). 22 **Excess Accumulated Deferred Income Taxes (EADIT)** 23 Please discuss the concept of ADIT. **Q**.

A. Generally speaking, Accumulated Deferred Income Tax ("ADIT") is the result of
 temporary timing differences between when an item of income or expense is reported on a

1 company's tax return and when that item is recognized by a company for financial 2 reporting purposes under generally accepted accounting principles ("GAAP"). For a utility, such as PAWC, that maintains its books of account in accordance with GAAP and 3 4 uses book data as the basis for developing its revenue requirement for ratemaking purposes, 5 book-tax timing differences can also result in differences between when items of income 6 or expense are reflected in the utility's rates charged to customers and when the utility pays 7 to the Internal Revenue Service ("IRS") the taxes associated with an item of income or 8 obtains a tax deduction for an item of expense. The accumulated difference between the 9 income and expenses recognized per books and the income and expenses recognized for 10 tax reporting purposes as of the end of the applicable accounting period is multiplied by 11 the statutory tax rate that will apply to the reversal of that timing difference in order to 12 calculate the estimated ADIT balance as of the calculation date. The components of ADIT 13 are classified as either deferred income tax liabilities or deferred income tax assets. Generally, a deferred tax liability ("DTL"), i.e., a tax liability that will be payable to the 14 15 taxing authority in the future, occurs when PAWC realizes the tax benefit of a deduction 16 before the expense that gave rise to that deduction is recognized on its books of account. However, in this scenario, the tax benefit realized by PAWC is only temporary; it will 17 18 reverse in the future when PAWC recognizes the underlying expense for financial reporting 19 purposes but does not receive a corresponding tax deduction (since that deduction will have 20 already been taken in an earlier tax year). Thus, the tax liability has not been eliminated, 21 it is merely deferred. Because the Company obtains the tax benefit before the associated 22 expense is recorded on its books of account, a deferred tax furnishes a temporary cash-flow 23 benefit (i.e., reduced taxes). The time-value of that cash-flow benefit is recognized for

1 ratemaking purposes by deducting the associated deferred tax from the utility's rate base, which effectively treats the deferred tax as zero-cost capital.³ It is important to note that 2 3 although the funds made available by DTLs are not investor-supplied, neither are they 4 customer-supplied. As explained above, those funds are, in fact, provided by the 5 government and, conceptually, correspond to an interest-free loan. Conversely, a deferred 6 tax asset ("DTA"), i.e. a tax benefit that will be realized in the future, occurs when PAWC 7 realizes the tax benefit of a deduction in an annual accounting period that occurs after it 8 recognizes the item of expense on its books. In this scenario, PAWC incurs an expense in 9 one tax year but does not receive the corresponding tax deduction until a subsequent tax 10 year. This produces a cash-flow detriment, and the associated time-value cost to PAWC 11 is typically recognized by recording DTAs as offsets to deferred tax liabilities. The DTA 12 will reverse in the future accounting period when PAWC gets a tax deduction for which 13 there is not a corresponding expense recognized per books. Thus, all deferred taxes, whether they are DTLs or DTAs, reverse over time and converge to zero over the lives of 14 15 the underlying items giving rise to the cumulative deferred tax balance. Most utilities, 16 including the Company, carry a net deferred tax liability.

17 Q. Did the corporate income tax reduction enacted by the Tax Cuts and Jobs Act of 2017 18 ("TCJA") affect PAWC's ADIT balances?

A. Yes. The reduction in corporate income taxes caused by the TCJA resulted in the Company
having a balance of EADIT. At December 31, 2017, PAWC had a net DTL balance

³ This assumes that the tax deduction can be monetized by reducing taxes otherwise payable to the taxing authority. If the deduction is not monetized because, for example, a company does not have any tax liability for the applicable tax year, a net operating loss is produced, which does not reduce the utility's rate base.

1 produced by the Company and its customers having temporarily benefitted from deductions 2 for accelerated tax deprecation deductions from income that was subject to a federal corporate income tax rate of 35%. The TCJA reduced that tax rate to 21% effective January 3 4 1, 2018. As a result, a portion of the Company's DTL balance might become a permanent 5 tax benefit that will be realized over the life of the underlying property. That portion of 6 the Company's DTL balance that is no longer expected to be payable to the federal government due to enactment of the TCJA is EADIT. The reduction in the tax rate has no 7 8 impact on the accumulated book-to-tax difference that exists, so the EADIT balance is only 9 a permanent benefit to the extent the federal tax rate remains at 21% for the entire period 10 over which the accumulated book-tax difference will reverse. If the tax rate were to 11 increase, the Company's ADIT balance would increase, and its EADIT balance would 12 decrease. Under applicable provisions of the Internal Revenue Code, portions of the 13 EADIT balance attributable to deductions that are subject to the requirement for normalization must be returned to customers (amortized for book reporting and ratemaking 14 15 purposes) over a period determined by the Average Rate Assumption Method ("ARAM"), 16 which generally corresponds to the remaining life of the assets that gave rise to those deductions. Violating the normalization requirement could result in a utility's loss of 17 18 eligibility to use accelerated forms of depreciation in calculating its Federal income tax 19 liability. The EADIT balances subject to the normalization requirement are referred to as 20 protected. EADIT balances that arise from deductions that are not subject to normalization 21 requirements need not conform to ARAM-determined amortization periods and are 22 referred to as unprotected.

Q. Will the Company's EADIT balance be returned to its customers?

2 A. Yes, the Company's EADIT balance will be returned to customers through rates over time. 3 The Commission, in its Opinion and Order in the Company's last base rate case,⁴ approved 4 the amortization of PAWC's protected EADIT over a period that conforms to ARAM in 5 order to conform to Internal Revenue Code's normalization requirements and approved 6 PAWC's amortization of unprotected EADIT over twenty years. In addition, as part of the 7 Company's Non-Unanimous Settlement in that case (the "Settlement"), the Company 8 agreed to provide customers annual bill credits of \$10.5 million in 2021 and 2022 in the 9 form of a negative surcharge, to flow-back to customers all EADIT that the Company 10 amortized per books during the period from January 1, 2018 through December 31, 2020.⁵

11 Q. Did the Company use the methods and amortization periods set forth in the 12 Settlement to amortize its EADIT balance?

A. Yes, it did. However, as explained below, the base rates and bill credits approved in PAWC's last case have returned more EADIT to customers than contemplated utilizing the amortization to which the parties agreed to in the Settlement. That agreed upon amortization is set forth in Appendix E to the Settlement. If not corrected in the manner explained below, amortizing PAWC's total EADIT balance at a rate faster than that set forth in Appendix E could have adverse consequences for PAWC going forward because

⁴ See Pa. Pub. Util. Comm'n v. Pennsylvania-America Water Co., Docket Nos. R-2020-3019369 and R-2020-3019371 (Opinion and Order entered Feb. 25, 2021).

⁵ *Id. See also Joint Petition for Non-Unanimous Settlement of Rate Investigation*, Docket Nos. R-2020-3019369 and R-2020-3019371, ¶ 23-25.

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the IRS could view the additional amortization as a violation of the Internal Revenue Code's normalization requirements for protected EADIT.

3

Q. Please explain how the accelerated amortization of EADIT occurred.

4 A. In its prior base rate case, as initially filed, the Company proposed: (1) to amortize 5 protected EADIT and plant-related unprotected EADIT over the ARAM period; (2) to 6 amortize non-plant related EADIT over 20 years; and (3) to amortize the \$17,855,412 of 7 EADIT that had been amortized per books during the period from January 1, 2018 through 8 December 31, 2020 (the "catch-up" amount) over a 3-year period at an annual rate of 9 \$5,951,804. Pursuant to the terms of the Settlement, the Company agreed to accelerate the 10 amortization period for the catch-up amount to 2 years and also agreed to accelerate the 11 amortization period for all unprotected EADIT (both plant-related and non-plant related) to 20 years. As previously noted, to reflect the 2-year amortization of the catch-up amount 12 13 being returned to customers, the Company agreed to provide a \$10.5 million annual bill credit, for a total of \$21 million over 2021 and 2022. The \$10.5 million annual credit 14 15 results in an annual reduction in EADIT of \$7.46 million after adjusting for the state and Federal tax benefits PAWC receives from the associated reduction in net income.⁶ Thus, 16 17 in total, the Company provided an annual amortization of \$13.41 million (\$5.95 million 18 reflected in the revenue requirement used to establish base rates + \$7.46 million returned 19 to customers through the annual credit). However, the annual catch-up period amortization 20 shown on page 5 of Appendix E was \$12.03 million. Thus, the annual expense shown on

⁶ PAWC's composite Pennsylvania (9.99%) and Federal (21%) income tax rate is 28.89 %, calculated as follows: $0.0999 + [(1.0 - .0999) \times 0.21]$. Accordingly, the after-tax cost of \$10.5 million in annual bill credits is \$10.5 million x (1.0 - 0.2889), or 0.71. Thus, the associated after-tax cost of \$10.5 million of annual bill credits is \$7.46 million (\$10.5 million x 0.71).

1		Appendix E understates the Settlement credit by \$1.38 million annually (\$13.41 million -
2		\$12.03 million), or \$2.76 million over the two-year period of the Settlement credit.
3	Q.	How does the Company propose correcting for the additional EADIT amortization
4		that was factored into the revenue requirement to set rates in PAWC's last base rate
5		case?
6	A.	The Company proposes to correct for the additional EADIT amortization by reducing the
7		balance of the unprotected EADIT by \$2.76 million as of the beginning of the Fully
8		Projected Future Test Year in this case to reflect the fact that an excess EADIT benefit in
9		that amount has already been accounted for in the revenue requirement from the prior rate
10		case.
11	Q.	Why is it important to make the proposed adjustment to the unprotected EADIT
12		balance in this case?
13	А.	By specifically identifying the excess amortization that occurred under the rates established
14		in PAWC's last case as related solely to unprotected EADIT and making an appropriate
15		
		adjustment to correct for that accelerated amortization in this case, PAWC will be able to
16		
16 17		adjustment to correct for that accelerated amortization in this case, PAWC will be able to
		adjustment to correct for that accelerated amortization in this case, PAWC will be able to clearly demonstrate to the IRS that it did not intentionally amortize an additional amount
17		adjustment to correct for that accelerated amortization in this case, PAWC will be able to clearly demonstrate to the IRS that it did not intentionally amortize an additional amount of protected EADIT. An intentional, uncorrected excessive amortization of protected
17 18		adjustment to correct for that accelerated amortization in this case, PAWC will be able to clearly demonstrate to the IRS that it did not intentionally amortize an additional amount of protected EADIT. An intentional, uncorrected excessive amortization of protected EADIT could be viewed as a violation of the normalization requirements of the Internal
17 18 19		adjustment to correct for that accelerated amortization in this case, PAWC will be able to clearly demonstrate to the IRS that it did not intentionally amortize an additional amount of protected EADIT. An intentional, uncorrected excessive amortization of protected EADIT could be viewed as a violation of the normalization requirements of the Internal Revenue Code and jeopardize PAWC's eligibility to use accelerated methods of

1		violation while also ensuring that customers receive the exact amount of the EADIT benefit
2		that results from the reduction in the Federal corporate income tax rate from 35% to 21%.
3		Conclusion
4	Q.	Does that conclude your direct testimony at this time?
5	A.	Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION v. DOC PENNSYLVANIA-AMERICAN WATER COMPANY

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

VERIFICATION

I, **Melissa Ciullo**, hereby state that the facts set forth in the pre-marked Statement No. 8 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

Melissa Ciullo

Statement No. 9 Swiz

PAWC STATEMENT NO. 9

DIRECT TESTIMONY OF J. CAS SWIZ

WITH REGARD TO PENNSYLVANIA-AMERICAN WATER COMPANY'S UNCOLLECTIBLE ACCOUNTS EXPENSE ADJUSTMENT AND PROPOSED TRACKING MECHANISM; COVID-19 FINANCIAL IMPACT DEFERRAL AMORTIZATION

DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER)

DATE: April 29, 2022

PENNSYLVANIA-AMERICAN WATER COMPANY

DIRECT TESTIMONY OF J. CAS SWIZ

1 Introduction

2 Q. What is your name and business address?

A. My name is J. Cas Swiz. My business address is 727 Craig Road, St. Louis, Missouri
63141.

5 Q. By whom are you employed and in what capacity?

A. I am employed by American Water Works Service Company, Inc. ("Service Company")
as Senior Director of Regulatory Services. Service Company is a wholly owned subsidiary
of American Water Works Company, Inc. ("American Water") that provides services to
Pennsylvania-American Water Company ("PAWC" or "the Company").

10 Q. Please summarize your educational background and professional experience.

11 A. I am a 2001 graduate of the University of Evansville with a Bachelor of Science degree in 12 Accounting, and a 2005 graduate of the University of Southern Indiana with a Master of 13 Business Administration. From 2001 to 2003, I was employed by ExxonMobil Chemical 14 as a Product and Inventory accountant. From 2003 through 2020, I was employed by 15 Vectren Corporation and CenterPoint Energy in various accounting and regulatory roles. 16 Most recently, I was Director, Regulatory and Rates with responsibility for leading and 17 executing the regulatory strategy of CenterPoint Energy's Indiana and Ohio electric and gas jurisdictions. In November 2020, I was hired by the Service Company within 18 19 Regulatory Services.

1

Q. What are your duties as Senior Director of Regulatory Services?

2 A. My primary responsibilities consist of the review and preparation of regulatory filings, 3 proceedings, and related activities for the regulated subsidiaries of American Water. This includes the preparation of written testimony, exhibits, and workpapers in support of 4 5 regulatory proceedings. In addition, I also review regulatory developments and evaluate 6 alternative strategies that may impact the operations of the American Water regulated 7 utility entities.

Have you previously submitted testimony before the Pennsylvania Public Utility 8 **Q**. 9 Commission (the "Commission" or "PUC")?

10 No, I have not. A.

11 Have you previously submitted testimony before other regulated jurisdictions? **Q**.

12 Yes. During my employment at Vectren, I submitted testimony on behalf of Vectren A. 13 Corporation, a CenterPoint Energy Company, in Indiana before the Indiana Utility 14 Regulatory Commission in various docketed proceedings supporting accounting and rate design requests, most recently in Cause Nos. 45378, 44429, and 44430. In addition, 15 16 I submitted testimony on behalf of Vectren Corporation in Ohio before the Public Utility 17 Commission of Ohio in various docketed proceedings, most recently in Case Nos. 20-0099-GA-RDR, 20-0101-GA-RDR, and 18-0298-GA-AIR.

18

19

Q. What is the purpose of your testimony?

20 A. The purpose of my testimony is two-fold. First, I will identify and describe PAWC's claim 21 for uncollectible accounts expense as presented in the Company's principal accounting 22 exhibits. I will also discuss PAWC's proposal to establish a tracker and deferral accounts 23 to reflect differences that occur, between base rate cases, in the annual amount of uncollectible accounts expense reflected in base rates and the actual annual amount of
 uncollectible accounts expense the Company incurs. The differences, which could be
 positive or negative, would be reflected in rates in a subsequent rate case. Second, I will
 support the Company's request to recover the deferred amounts recorded to the regulatory
 asset for incremental COVID-19 related financial impacts authorized by the Commission's
 September 15, 2021 Order at Docket No. P-2020-3022426 ("COVID-19 Deferral
 Accounting Order").

8 <u>Uncollectible Accounts Expense</u>

9 Q. Please describe the Company's proposed level of uncollectible accounts expense
10 reflected in PAWC's revenue requirement for the fully projected future test year
11 ("FPFTY") ending December 31, 2023.

Consistent with prior rate cases, PAWC calculated its claim for uncollectible accounts expense using a three-year historic average ratio of net write-offs as a percentage of sales revenues. As shown in Table 1 below, the uncollectible accounts rate (1.205%) was calculated by using the Company's actual write-off experience for 2017 through 2019 divided by PAWC's total billed revenues for the same three years.

17 **Table 1**

	2017	2018	2019	Three-Year Average
Net Write-Off Activity	\$ 7,629,139	\$ 8,772,003	\$ 8,423,765	\$ 8,274,969
Total Billed Revenues	\$ 664,021,630	\$ 709,490,271	\$ 687,296,135	\$ 686,936,012
Average Write-Off Percentage	1.149%	1.236%	1.226%	1.205%

Applying the three-year average rate of net write-offs to the FPFTY level of total Company
 revenues for water and wastewater operations results in an annual level of uncollectible

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expense reflected in new base rates established at the conclusion of this proceeding, as shown on Exhibit No. 3-A, Calculation of Uncollectible Accounts Expenses.

Q. Why is it reasonable and appropriate to exclude 2020 and 2021 from the three-year average percentage of net write-offs used to calculate uncollectible expense in this proceeding?

6 A. The Company used a three-year historic average for 2017-2019 period to normalize the rate of uncollectible accounts to pre-COVID-19 levels. In response to the COVID-19 7 8 emergency, the Company implemented several measures to help customers deal with the 9 financial impact of the pandemic, including ceasing service terminations for non-payment 10 from March 12, 2020 through March 31, 2021. The Company resumed collections 11 activities on April 1, 2021, at which point the customer account would be evaluated for 12 disconnection if payment was not received within 90 days from the last billing period. 13 Because of this timeline, in many instances overdue account balances dating back to March 14 2020 were not written off until late summer 2021, or roughly 150-180 days after collection activities resumed. As a result and as shown in Table 2, PAWC experienced variances in 15 16 monthly net write-offs in 2020 and 2021 compared to pre-pandemic levels.

Table 2¹

Net Write-Off's	2017	2018	2019	2020	2021
Jan	\$ 716,536	\$ 685,641	\$ 912,390	\$ 764,828	\$ 349,586
Feb	\$ 559,995	\$ 692,680	\$ 618,529	\$ 346,622	\$ 297,714
Mar	\$ 662,432	\$ 592,584	\$ 499,215	\$ 606,378	\$ 484,338
Apr	\$ 303,116	\$ 332,690	\$ 480,307	\$ 404,114	\$ 305,722
May	\$ 597,020	\$ 600,851	\$ 568,274	\$ 418,735	\$ 424,310
Jun	\$ 558,589	\$ 913,277	\$ 472,574	\$ 549,243	\$ 499,818
Jul	\$ 591,294	\$ 813,965	\$ 558,600	\$ 410,939	\$ 596,656
Aug	\$ 891,413	\$ 910,428	\$ 1,099,073	\$ 200,884	\$ 1,502,577
Sep	\$ 630,558	\$ 938,943	\$ 822,732	\$ 268,270	\$ 1,405,223
Oct	\$ 830,307	\$ 870,953	\$ 831,211	\$ 189,356	\$ 720,472
Nov	\$ 638,288	\$ 699,334	\$ 684,167	\$ 359,632	\$ 942,686
Dec	\$ 649,591	\$ 720,657	\$ 876,692	\$ 386,722	\$ 1,103,004
Annual	\$ 7,629,139	\$ 8,772,003	\$ 8,423,765	\$ 4,905,724	\$ 8,632,107

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3 Q. Did PAWC create a regulatory asset for its incremental uncollectible accounts 4 expense related to COVID-19 emergency?

A. Yes. On May 13, 2020, the Commission issued a Secretarial Letter² that recognized the
additional costs and other financial impacts that the COVID-19 emergency imposed on
utilities as life sustaining businesses, including the increased costs directly resulting from
the service-termination moratorium established by the Emergency Order issued by PUC
Chairman Gladys Brown Dutrieuille on March 13, 2020.³ The May 2020 Secretarial Letter
directed utilities to track incremental COVID-19 related expenses and any government
assistance that would offset those expenses and permitted utilities to establish a regulatory

¹ Table 2 presents net write-offs for 2017 through 2021. The disconnection moratorium period is highlighted in green.

² COVID-19 Cost Tracking and Creation of Regulatory Asset, Docket No. M-2020-3019775 (Secretarial Letter issued May 13, 2020) ("May 2020 Secretarial Letter").

³ Public Utility Service Termination Moratorium Proclamation of Disaster Emergency-COVID-19, Docket No. M2020-3019244 (Emergency Order ratified Mar. 26, 2020) ("Emergency Order").

asset for uncollectible accounts expenses attributable to compliance with the Emergency
 Order.

Consistent with the approval granted by the Commission in the May 2020 Secretarial Letter, which was affirmed by the COVID-19 Deferral Accounting Order,⁴ PAWC established a regulatory asset to record its COVID-19 related incremental bad debt expense equal to the amount above the uncollectible expense level reflected in rates. I will discuss the deferred amounts of uncollectible accounts expense later in my direct testimony.

9 Q. Please describe the Company's proposal to establish a tracker mechanism for
 10 uncollectible accounts expense.

A. Due to the impacts of the COVID-19 emergency, the annual level of uncollectible expense
 included for recovery in PAWC's base rates is difficult to forecast. Specifically, since
 2020, PAWC has experienced material increases in unpaid account balances and aging
 accounts receivable from customers, as shown in Table 3 below.

15 Table 3

Recei	ivables Balance	as of Decembe	r 31
Aging Category	2021	2020	2019
Current	\$ 29,962,859	\$ 29,490,102	\$ 31,858,759
31-150 Days	\$ 17,097,845	\$ 27,830,991	\$ 17,001,532
>150 Days	\$ 25,584,544	\$ 19,943,113	\$ 11,702,429
Total	\$ 72,645,248	\$ 77,264,206	\$ 60,562,720

As of December 31, 2021, the Company has experienced an approximate 20% increase in
overall unpaid account balances from 2019 (pre-COVID-19 emergency), with arrearages
that are more than 150 days overdue up nearly 119% from the level in 2019. While the

¹⁶

⁴ See May 2020 Secretarial Letter, p. 2; COVID-19 Deferral Accounting Order, pp. 49-50.

Company resumed collections activities and service terminations for non-payment in April
 2021, unpaid customer account balances accumulated during PAWC's moratorium on
 service disconnections, and the ongoing effects of the COVID-19 emergency on customers,
 along with rising U.S. inflation rates, continue to impact the Company's accounts
 receivable. Therefore, PAWC is proposing a tracker mechanism and deferral account for
 its uncollectible accounts expense.

Q. What is the difference between a tracker mechanism and a rate adjustment clause established under Section 1307 of the Code?

9 A. Under the mechanism proposed by PAWC, the differences between the uncollectible 10 accounts expense included in the Company's rates and its actual uncollectible accounts 11 expense will be tracked and recorded in a deferral account. The net balance in the account 12 would represent a deferral – either as a regulatory liability or regulatory asset – that would 13 be credited to, or recovered from, customers in a subsequent base rate case by means of an 14 appropriate amortization. In contrast, a rate adjustment mechanism established under Section 1307 of the Code typically involves billing customers a charge calculated to 15 recover a projected annual cost. Annually (or more frequently), the amount billed to 16 17 customers is reconciled to the utility's actual cost and the difference is either recovered 18 from or refunded to customers through the experience or "E" factor of the formula for the 19 rate adjustment clause. In that way, customer rates are periodically adjusted to reflect 20 changes in actual costs and the reconciliation of prior-period over or under-collections.

21 Under a rate adjustment clause, customer rates are subject to change between base 22 rate cases. Under the tracker mechanism the Company is proposing for uncollectible 23 accounts expense, variations between projected and actual expenses will be recorded and

deferred, but customer rates will not reflect the net impact of those variations until new
 rates are authorized in a future base rate case.

3 Q. Please explain how the proposed uncollectible expense tracker will work.

4 The Company will track the difference between uncollectible accounts expense included A. 5 for recovery in its Commission-approved base rates and actual uncollectible accounts 6 expense recorded to National Association of Regulatory Utility Commissioners 7 ("NARUC") Uniform System of Accounts ("USoA") Account 670. Each month, one-8 twelfth (1/12) of the amount authorized for recovery in base rates ("base level") will be 9 compared to the Company's actual monthly uncollectible accounts expense. Actual 10 uncollectible accounts expense above or below the base level will be credited or debited, 11 as applicable, each month in a deferral account (NARUC USoA Account 186.3) on the 12 Company's general ledger. The Company will continue to defer the net balance recorded 13 in that account through the end of its next base rate case. PAWC will not accrue and defer 14 carrying costs on the deferred balance.

15 In its next base rate case, the net credit or debit balance in the deferral account, 16 which will represent either a regulatory asset or regulatory liability as applicable, will be 17 amortized to income over an appropriate period as either an increase or decrease, 18 respectively, to uncollectible accounts expense. In this way, any over-recovery of such 19 expense will be returned to customers, and any shortfall will be recovered by the Company. 20 In subsequent base rate cases, the amount of uncollectible accounts expense included for 21 recovery in base rates will be re-established using a three-year historic average of net write 22 offs as a percentage of sales revenues.

Q. Are there advantages to customers if uncollectible accounts expense is recovered
 through a tracking mechanism as proposed by PAWC?

Yes. The tracking mechanism provides protection to both customers and the Company from the variations between forecasted and actual uncollectible accounts expense that occur. The tracking mechanism assures that risks and rewards are symmetrical. Neither customers nor the Company would be required to bear more than the Company's actual costs incurred for uncollectible accounts.

8 Q. How will the regulatory asset for incremental COVID-19 related uncollectible 9 accounts expense authorized by the May 2020 Secretarial Letter and the COVID-19 10 Deferral Accounting Order transition to the tracking mechanism proposed by the 11 Company in this proceeding?

12 As I explain further in my testimony, the Company is proposing to include the cumulative A. 13 deferred balance of its COVID-19 regulatory asset as of February 28, 2022 in base rates in 14 this proceeding, and will update that balance during the pendency of this proceeding as it The date the COVID-19 regulatory asset balance is captured for 15 becomes available. 16 inclusion in base rates will represent the cut-off period for transition to the tracking 17 mechanism proposed by the Company in this proceeding if approved. Any incremental 18 COVID-19 related uncollectible accounts expense above or below the amount embedded 19 in PAWC's base rates after this date will be recorded in the proposed uncollectible expense 20 deferral account.

1 PAWC's COVID-19 Regulatory Asset

Q. Please summarize the financial impacts PAWC has experienced to meet the
challenges of furnishing essential services since March of 2020 and the COVID-19
Deferral Accounting Order.

5 A. After Governor Tom Wolf issued the Proclamation of Disaster Emergency on March 6, 6 2020, PAWC initiated a comprehensive COVID-19 response so that it could continue to 7 furnish safe and reliable water and wastewater service while protecting the health and 8 safety of its customers and employees. First, the Company implemented several measures 9 to mitigate financial impacts on customers, including ceasing service terminations for non-10 payment in accordance with the Emergency Order, reconnecting customers previously 11 disconnected for non-payment, and waiving all late fees and interest on past-due accounts. 12 In addition, the Company instituted various operational and workforce changes to protect 13 employees and customers from the threat posed by COVID-19. These measures had a 14 significant financial impact on the Company. To that end, on October 15, 2020, PAWC 15 filed a Petition at Docket No. P-2020-3022426 requesting that the Commission authorize 16 the Company to defer for accounting purposes specific expenses and revenue losses PAWC 17 incurred in ensuring continued water and wastewater service for its customers throughout 18 the COVID-19 emergency.

In the COVID-19 Deferral Accounting Order (pp. 12-13, 30-32, 42, 49-50), the Commission authorized PAWC to record COVID-19 related direct costs and savings as a regulatory asset, along with incremental COVID-19 related uncollectible accounts expense, and carrying charges on the deferred amounts. The Commission rejected the proposals of the Bureau of Investigation and Enforcement and the Office of Consumer Advocate ("OCA") to limit the types and amounts of COVID-19 expenses directly incurred by PAWC.⁵ The Commission also found that the OCA's proposal for an uncollectible expense deferral "baseline" clearly conflicts with the Commission's prescribed approach for calculating deferrals in the May 2020 Secretarial Letter based on all uncollectible accounts expense above the amount currently reflected in PAWC's approved base rates.⁶ Finally, the PUC declined to establish a "hard cut-off date" after which no further COVID-19 related amounts could be deferred.⁷

8 Q. Please describe the Company's claim for recovery of its COVID-19 regulatory asset
9 in this proceeding.

10A.As shown on Exhibit No. JCS-1, pages 1-2, the Company has recorded a net debit balance11of \$8,571,037 in its COVID-19 regulatory asset as of February 28, 2022 before carrying12costs, with an additional \$687,787 of carrying costs calculated on the deferral as explained13later in my testimony. PAWC proposes to include the full deferred balance with carrying14costs in base rates, amortized over three years. The Company is not proposing to include15the COVID-19 regulatory asset within its proposed rate base in this proceeding.

Q. The amount included in Exhibit No. 3-A, Amortization Expense differs from the total
 amount with carrying costs you cite above⁸. Can you please explain the difference?

- 18 A. The amount included in Exhibit No. 3-A reflects the actual balance on PAWC's general
- 19

ledger as of February 28, 2022, which includes carrying costs through February 2022 of

⁵ COVID-19 Deferral Accounting Order, p. 31.

⁶ COVID-19 Deferral Accounting Order, pp. 13-14.

⁷ COVID-19 Deferral Accounting Order, p. 48.

⁸ \$8,967,402 has been deferred as of February 28, 2022, amortized over three years, for an annual amortization of \$2,992,134.

1 \$405,364. As I explain further below, the carrying cost calculation included in Exhibit 2 No. JCS-1 (pages 1-2 and 6) reflects the assumption that the balance is not recovered in 3 rates until January 2023, at the earliest. As such, the carrying costs will continue to accrue 4 against the deferral until recovery begins. Absent any additional deferral of financial 5 impacts after February 2022, the carrying costs will grow to \$687,787 by January 2023.

6

7

Q.

Is PAWC continuing to defer activity to the COVID-19 regulatory asset after February 28, 2022?

A. Yes, PAWC continues to defer activity to the COVID-19 regulatory asset consistent with
the May 2020 Secretarial Letter and the COVID-19 Deferral Accounting Order. As
explained earlier in my testimony, the Company continues to defer incremental
uncollectible expense above or below the authorized level in base rates to both comply
with the existing authorization and with the Company's proposal in this proceeding.
PAWC will update the regulatory asset balance throughout the duration of this base rate
proceeding to capture any additional COVID-19 financial impacts.

15 Q. Did PAWC calculate the incremental uncollectible accounts expense recorded in its
 16 COVID-19 regulatory asset consistent with the methodology prescribed in the May
 17 2020 Secretarial Letter?

A. Yes. As of February 28, 2022, the Company has recorded \$8,667,342 for COVID-19
related incremental uncollectible accounts expense. As shown on Exhibit No. JCS-1,
page 3, PAWC calculated the \$8,667,342 deferred amount by reducing the actual level of
uncollectible accounts expense recorded in NARUC USoA Account 670 for the months
March 2020 through February 2022 – \$28,507,371 – by the amount of uncollectible
accounts expense embedded in PAWC's existing rates (prorated by month) – \$19,840,029.

1		For 2020, the amount of uncollectible expense embedded in PAWC's base rates is
2		determined from the Company's 2017 base rate case at Docket No. R-2017-2595853. To
3		calculate the baseline level of uncollectible expense for rates in effect from March 2020
4		through January 2021, the Company applied the 1.484% uncollectible rate proposed in its
5		initial filing ⁹ to the revenues produced by the PUC-approved settlement of the PAWC's
6		2017 rate case. ¹⁰ That calculation produces an annual \$10,672,121 baseline level of
7		expense, which was prorated for the months of March 2020 through January 2021.
8		The annual baseline uncollectible accounts expense embedded in PAWC's base
9		rates effective from February 1, 2021 through December 31, 2021 is \$9,234,800, calculated
10		as sales revenues permitted by the PUC's Final Order and Opinion entered on February 25,
11		2021 times the uncollectible rate of 1.20% proposed in the Company's 2020 base rate case
12		at Docket Nos. R-2020-3019369 and R-2020-3019371. This amount was prorated for the
13		eleven months ended December 31, 2021. For 2022, the annual uncollectible accounts
14		expense embedded in PAWC's base rates is \$9,475,297, calculated as the same
15		uncollectible rate multiplied by the sales revenues permitted by the PUC's Final Order and
16		Opinion.
17	Q.	How did PAWC calculate the COVID-19-related direct costs and savings recorded in
18		the COVID-19 regulatory asset?

19 A. PAWC began to incur cost increases associated with the COVID-19 emergency in March

- 20 2020. The Commission-approved rates established in the Company's 2017 and 2020 rate
- 21 cases also did not include a "normalized" level of these costs due to the extraordinary

⁹ Docket No. R-2017-2595853, Exhibit No. 3-A, page 58.

¹⁰ Docket No. R-2017-2595853, Joint Petition for Settlement, Appendix C, Summary Proof of Revenues.

nature of these expenses and the rapidly evolving COVID-19 emergency. As a result, 1 2 PAWC is tracking and recording only those expense items (and cost savings) that the 3 Company has determined were incurred (or realized) as a direct result of the COVID-19 emergency. As of February 28, 2022, PAWC has recorded a net credit of \$(96,305) in its 4 COVID-19 regulatory asset for direct costs and savings. PAWC has not separately 5 6 recorded in the COVID-19 regulatory asset COVID-19 direct costs and savings 7 experienced from and after February 1, 2022 and those amounts are reflected in the 8 Company's expense accounts used to establish base rates in this proceeding.

9 Incremental direct costs associated with the COVID-19 emergency have been 10 identified within the Company's Enterprise Resource Planning ("ERP") system. Specific 11 tracking numbers within the ERP system were created to capture certain increased 12 operating and maintenance ("O&M") expenses related to the emergency, such as facility 13 preparedness, personal protective equipment, sanitizers, signage, rental equipment, 14 enhanced cleaning in areas where positive COVID-19 cases have been confirmed, etc. This 15 method of tracking and recording ensures that incremental, non-recurring costs triggered by the COVID-19 emergency are not reflected in the O&M expense accounts used to 16 17 establish new rates in this proceeding. PAWC has recorded \$1,887,231 of COVID-19 18 related direct costs through February 28, 2022. Exhibit No. JCS-1, pages 4-5 show the 19 deferred amounts by O&M expense category.

As discussed above, PAWC has also tracked and recorded costs that have decreased as a result of the COVID-19 emergency to offset the deferred amounts that PAWC claiming for recovery in rates in this case. In particular, PAWC has offset the \$1,887,231 of direct costs recorded in the COVID-19 deferral with the significant reduction in travel expenses

1		during the COVID-19 emergency. ¹¹ The Company calculated these savings by comparing
2		actual expenses related to travel and conferences since the beginning of the COVID-19
3		emergency (March 2020) to the 2019 level of expenses. The total cost savings deferred
4		through February 28, 2022 is a credit of \$(1,983,536).
5	Q.	How did PAWC calculate the carrying costs on the deferred amounts recorded to the
6		COVID-19 regulatory asset as authorized by PUC in the COVID-19 Deferral
7		Accounting Order (p. 42)?
8	A.	PAWC used the Act 6 Residential Lending Rates as published monthly by the Pennsylvania
9		Department of Banking and Securities. The net balance in the COVID-19 regulatory asset
10		for each month was multiplied by the applicable monthly interest rate, with the total months
11		of interest expense representing the remaining period between the charge month and
12		January 2023, the first month PAWC expects the COVID-19 regulatory asset will be
13		recovered in rates. Exhibit No. JCS-1, page 6 shows the detailed calculation of the carrying
14		costs.
15	Q.	Is the calculation of carrying costs on the COVID-19 regulatory asset consistent with
16		other PAWC regulatory assets/liabilities?
17	A.	Yes. PAWC uses this same calculation in determining carrying costs in its quarterly
18		Distribution System Improvement Charge ("DSIC").
19	Q.	Will these carrying costs change if PAWC defers any additional amounts to the
20		COVID-19 regulatory asset after February 28, 2022?

¹¹ Travel and conference savings include both PAWC expenses and Service Company costs that would have been charged to PAWC.

1	A.	Yes. As PAWC updates this balance throughout the duration of this base rate proceeding
2		to capture any additional COVID-19 financial impacts, the carrying costs through January
3		2023 (or actual effective date of rates in this proceeding) will be updated to include this
4		activity.

5 <u>Conclusion</u>

- 6 Q. Does this conclude your direct testimony at this time?
- 7 A. Yes, it does.

BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

PENNSYLVANIA PUBLIC UTILITY COMMISSION v. DOCKET NOS. R-2022-3031672 (WATER) R-2022-3031673 (WASTEWATER) PENNSYLVANIA-AMERICAN WATER COMPANY

VERIFICATION

I, **J. Cas Swiz**, hereby state that the facts set forth in the pre-marked Statement No. 9 and accompanying exhibits, if any, are true and correct to the best of my knowledge, information, and belief. I understand that this verification is made subject to the provisions and penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

Date: April 29, 2022

J. Cas Swiz

PENNSYLVANIA AMERICAN WATER COVID REGULATORY ASSET DEFERRAL

AS OF FEBRUARY 28, 2022

	Reference	N	lar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	S	Sep-20	Oct-20	No	ov-20	C	Dec-20	Jan-21	Feb-21
1 Incremental Expenses																	
2 State		\$	12,380 \$	197,186	6 163,923	\$ 155,671 \$	74,893 \$	146,334	\$	25,651 \$	99,336	\$	63,478	\$	89,452 \$	63,595 \$	105,988
3 Service Company		\$	1,484 \$	11,399	33,430	\$ 9,766 \$	48,838 \$	65,138	\$	(4,119) \$	5,104	\$	15,915	\$	1,671 \$	19,361 \$	3,751
4 Total Incremental Expenses	[Line 2 + Line 3]	\$	13,864 \$	208,585	5 197,353	\$ 165,437 \$	123,731 \$	211,472	\$	21,532 \$	104,440	\$	79,393	\$	91,123 \$	82,956 \$	109,739
5 Uncollectible Expense																	
6 Total		\$	1,016,737 \$	636,818	1,208,140	\$ 1,307,389 \$	1,410,490 \$	1,628,689	\$	865,566 \$	1,394,054	\$1	,685,556	\$	1,013,276 \$	2,908,471 \$	1,637,196
7 Less: Authorized Base Level		\$	745,981 \$	491,985 \$	758,788	\$ 832,425 \$	846,299 \$	1,241,168	\$	1,037,330 \$	1,090,691	\$	872,979	\$	964,761 \$	993,574 \$	688,916
8 Net Incremental	[Line 6 - Line 7]	\$	270,756 \$	144,833 \$	449,352	\$ 474,964 \$	564,191 \$	387,521	\$	(171,764) \$	303,363	\$	812,577	\$	48,515 \$	1,914,897 \$	948,280
9 Cost Savings																	
10 PAWC Actual Travel and Conferences		\$	78,288 \$	(30,269) \$	19,863	\$ 50,734 \$	(23,830) \$	28,289	\$	32,836 \$	9,487	\$	10,263	\$	52,725 \$	(8,697) \$	8,617
11 2019 Baseline Travel and Conferences		\$	44,550 \$	104,216	104,347	\$ 83,732 \$	102,874 \$	60,960	\$	65,955 \$	8,296	\$	20,137	\$	106,890 \$	16,975 \$	51,508
12 Incremental Savings - PAWC	[Line 10 - Line 11]	\$	33,739 \$	(134,486) \$	(84,484)	\$ (32,997) \$	(126,704) \$	(32,671)	\$	(33,119) \$	1,191	\$	(9,873)	\$	(54,165) \$	(25,672) \$	(42,891)
13 Service Company Actual Travel and Conferences		\$	24,303 \$	(13,311) \$	2,493	\$ 941 \$	3,628 \$	1,270	\$	7,578 \$	2,751	\$	5,463	\$	15,632 \$	6,962 \$	4,754
14 2019 Baseline Travel and Conferences		\$	59,019 \$	56,474	54,675	\$ 48,587 \$	21,699 \$	50,899	\$	62,087 \$	56,543	\$	32,317	\$	57,262 \$	37,687 \$	64,533
15 Incremental Savings - Service Company	[Line 13 - Line 14]	\$	(34,716) \$	(69,785) \$	(52,182)	\$ (47,645) \$	(18,071) \$	(49,629)	\$	(54,508) \$	(53,792)	\$	(26,854)	\$	(41,631) \$	(30,725) \$	(59,779)
16 Total Incremental Savings	[Line 12 + Line 15]	\$	(978) \$	(204,270)	(136,666)	\$ (80,643) \$	(144,776) \$	(82,299)	\$	(87,627) \$	(52,601)	\$	(36,727)	\$	(95,795) \$	(56,397) \$	(102,670)
17 Total Deferral Activity before Carrying Costs	[Line 4 + Line 8 + Line 16]	\$	283,642 \$	149,148	510,039	\$ 559,758 \$	543,146 \$	516,693	\$	(237,859) \$	355,202	\$	855,243	\$	43,843 \$	1,941,456 \$	955,350
18 Carrying Costs		\$	36,164 \$	17,432 \$	51,004	\$ 50,611 \$	47,525 \$	46,825	\$	(19,425) \$	27,972	\$	64,856	\$	3,425 \$	145,609 \$	68,666
19 Total Deferral Activity with Carrying Costs	[Line 17 + Line 18]	\$	319,806 \$	166,580 \$	561,043	\$ 610,369 \$	590,671 \$	563,518	\$	(257,284) \$	383,174	\$	920,099	\$	47,268 \$	2,087,065 \$	1,024,016

Exhibit No. JCS-1 Page 1 of 6

PENNSYLVANIA AMERICAN WATER COVID REGULATORY ASSET DEFERRAL

AS OF FEBRUARY 28, 2022

	Reference		Mar-21	Apr-21	м	lay-21	Jun-21		Jul-21	A	ug-21	s	Sep-21	0	ct-21	Nov-21	0	Dec-21	Jan-22		Feb-22		ual Activity - ough Feb-22	
1 Incremental Expenses																								1
2 State		\$	87,896 \$	79,111	\$	27,199 \$	64,861	\$	29,402	\$	22,136	\$	21,299	\$	30,191 \$	23,695	\$	19,936 \$	45,310	\$	-	\$	1,648,922	2
3 Service Company		\$	1,547 \$	1,644	\$	2,826 \$	4,783	\$	1,501	\$	7,908	\$	(4,253)	\$	3,650 \$	3,611	\$	3,354 \$	-	\$	-	\$	238,309	3
4 Total Incremental Expenses	[Line 2 + Line 3]	\$	89,443 \$	80,755	\$	30,025 \$	69,644	\$	30,903	\$	30,044	\$	17,046	\$	33,841 \$	27,306	\$	23,290 \$	45,310	\$	-	\$	1,887,231	4
5 Uncollectible Expense																								5
6 Total		\$	510,996 \$	50,607	\$ 1,	,721,040 \$	912,404	\$	1,807,117	5 1	,847,288	\$ 1	1,004,672	\$	704,249 \$	850,656	\$	703,732 \$	1,401,341	\$	280,887	\$	28,507,371	6
7 Less: Authorized Base Level		\$	645.513 \$	425,724	\$	656.594 \$	720.314	\$	732.320	5 1.	.074.007	\$	897.623	\$	943.797 \$	755,407	\$	834.826 \$	882,150	\$	706,857	\$	19,840,029	7
8 Net Incremental	[Line 6 - Line 7]	\$	(134,517) \$	(375,117)	\$ 1,	,064,446 \$	192,090	\$	1,074,797	5	773,281	\$	107,049	\$ (239,548) \$		\$	(131,094) \$	519,191	\$	(425,970)	\$	8,667,342	8
9 Cost Savings																								9
10 PAWC Actual Travel and Conferences		\$	72,814 \$	(26,485)	\$	20,279 \$	51,799	\$	(6,141) \$	5	18,108	\$	45,693	\$	(10,472) \$	24.245	\$	78.271 \$	(9,542) \$	-	\$	486.878	10
11 2019 Baseline Travel and Conferences		ŝ	44.550 \$	104.216	ŝ	104.347 \$	83.732	ŝ	102.874		60,960	ŝ	65.955	ŝ	8.296 \$	20,137	\$	106.890 \$	16,975		_	ŝ	1,489,368	
12 Incremental Savings - PAWC	[Line 10 - Line 11]	\$	28,265 \$	(130,702)	\$	(84,067) \$	(31,933)	\$	(109,015)	5	(42,852)	\$	(20,262)	\$	(18,768) \$	4,109	\$	(28,618) \$	(26,517		-	\$	(1,002,490)	
13 Service Company Actual Travel and Conferences		\$	6,502 \$	183	\$	(5,041) \$	9,589	\$	15,755	5	11.714	\$	14,341 \$	\$	10.814 \$	14.489	\$	12.763 \$	4.413	\$	-	s	157,984	13
14 2019 Baseline Travel and Conferences		\$	59,019 \$	56,474	\$	54,675 \$	48,587	\$	21,699	5	50,899	ŝ	62.087	ŝ	56.543 \$	32.317	\$	57.262 \$	37,687	\$	-	s	1,139,031	
15 Incremental Savings - Service Company	[Line 13 - Line 14]	\$	(52,518) \$	(56,291)	\$	(59,716) \$	(38,998)	\$	(5,945)	5	(39,184)	\$	(47,746) \$	\$	(45,729) \$	(17,828)	\$	(44,499) \$	(33,274		-	\$	(981,046)	
16 Total Incremental Savings	[Line 12 + Line 15]	\$	(24,253) \$	(186,992)	\$ ((143,783) \$	(70,931)	\$	(114,960)	6	(82,036)	\$	(68,008) \$	\$	(64,497) \$	(13,720)	\$	(73,117) \$	(59,791)\$		\$	(1,983,536)	16
17 Total Deferral Activity before Carrying Costs	[Line 4 + Line 8 + Line 16]	\$	(69,327) \$	(481,355)	\$	950,687 \$	190,804	\$	990,741	5	721,289	\$	56,088 \$	\$ (270,204) \$	108,835	\$	(180,921) \$	504,710	\$	(425,970)	\$	8,571,037	17
18 Carrying Costs		\$	(5,084) \$	(35,801)	\$	71,302 \$	13,595	\$	66,875	5	45,982	\$	3,178 \$	\$	(14,355) \$	5,396	\$	(8,820) \$	21,450	\$	(16,595)	\$	687,787	18
19 Total Deferral Activity with Carrying Costs	[Line 17 + Line 18]	\$	(74,411) \$	(517,156)	\$1,	,021,989 \$	204,399	\$	1,057,616	5	767,271	\$	59,266	\$ (284,559) \$	114,231	\$	(189,741) \$	526,160	\$	(442,565)	\$	9,258,824	19

Exhibit No. JCS-1 Page 2 of 6

Pennsylvania-American Water Uncollectible Expense Baseline

Authorized Level - Annual		ebruary 2021 - J ecember 2021 D 9,234,800 \$	anuary 2022 - ecember 2022 9,475,297										
3-Year Average - Monthly Allocation	January 9.310%	February 7.460%	March 6.990%	April 4.610%	May 7.110%	June 7.800%	July 7.930%	August 11.630%	September 9.720%	October 10.220%	November 8.180%	December 9.040%	Total 100.000%
Baseline Amounts	Mar-20 \$ 745,981 \$	Apr-20 491,985 \$	May-20 758,788 \$	Jun-20 832,425 \$	Jul-20 846,299 \$	Aug-20 1,241,168 \$	Sep-20 1,037,330 \$	Oct-20 1,090,691	Nov-20 \$ 872,979 \$	Dec-20 964,761			
Baseline Amounts	Jan-21 \$ 993,574 \$	Feb-21 688,916 \$	Mar-21 645,513 \$	Apr-21 425,724 \$	May-21 656,594 \$	Jun-21 720,314 \$	Jul-21 732,320 \$	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21 \$ 834,826	
	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	
Baseline Amounts	\$ 882,150 \$	706,857 \$	662,323 \$	436,811 \$	673,694 \$	739,073 \$	751,391 \$	1,101,977	\$ 920,999 \$	968,375 \$	775,079	\$ 856,567	

Exhibit No. JCS-1 Page 3 of 6

Pennsylvania-American Water Incremental Direct Costs

PAWC Direct Costs

	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21
Contract Services	\$ 39,514.63	\$ 2,563.54	\$ 8,571.32	\$ -	\$ 11,425.60	\$ 17,487.03 \$	\$ 5,587.99 \$	18,695.76	\$ 4,367.62	\$ 2,119.10	\$ 25,228.14 \$	
Customer Education	\$ -	\$ -	\$ -	\$ -	\$ 722.92	\$ 817.75 \$	\$ 7,546.30 \$	-	\$ -	\$ -	\$ - \$	
Employee Expenses	\$ 2,528.95	\$ 321.16	\$ -	\$ 1,490.95	\$ 5,261.58	\$ (4,463.39) \$	\$ 2,509.62 \$	52.50	\$ -	\$ 1,021.63	\$ 438.29 \$	
Janitorial	\$ 6,118.53	\$ 13,223.83	\$ 34,196.47	\$ 235.36	\$ 27,763.37	\$ 8,426.57 \$	\$ 12,309.10 \$	13,346.89	\$ 59,283.83	\$ 4,613.81	\$ 13,082.56 \$	16,902.93
Lab Supplies	\$ -	\$ -	\$ 149.65	\$ 65.78	\$ 1,353.21	\$ 47,927.38 \$	\$ 6,154.79 \$	124.32	\$ -	\$ -	\$ - \$	
Materials and Supplies	\$ 19,059.29	\$ 34,958.42	\$ 42,105.98	\$ 7,539.93	\$ 116,824.85	\$ 46,609.70 \$	\$ 97,282.63 \$	29,546.22	\$ 73,199.93	\$ 14,216.56	\$ 23,464.74 \$	11,768.93
Miscellaneous	\$ 1,974.43	\$ 1,593.92	\$ 1,840.02	\$ 1,196.85	\$ 23,183.77	\$ 39,528.09 \$	\$ 488.71 \$	6,825.02	\$ 121.02	\$ 3,147.54	\$ 207.93 \$	1,187.66
Office Supplies	\$ 2,238.14	\$ 1,404.29	\$ -	\$ 1,850.80	\$ 7,003.19	\$ 1,649.82 \$	\$ 1,343.06 \$	6,302.10	\$ 2,772.38	\$ 531.87	\$ 1,189.93 \$	331.54
Rental Costs	\$ -	\$ -	\$ -	\$ -	\$ 3,611.25	\$ (2,787.81) \$	\$ 1,703.96 \$	-	\$ -	\$ -	\$ - \$	
0 Security Services	\$ 27,901.75	\$ 9,412.80	\$ 2,588.52	\$ -	\$ -	\$ 5,066.81 \$	\$ - \$	-	\$ 6,588.96	\$ -	\$ (16.12) \$	
1 Transportation	\$ -	\$ -	\$ -	\$ -	\$ 36.01	\$ 3,660.95 \$	\$ 20,744.50 \$	-	\$ -	\$ -	\$ - \$	-
2 Total PAWC Direct Costs	\$ 99,335.72	\$ 63,477.96	\$ 89,451.96	\$ 12,379.67	\$ 197,185.75	\$ 163,922.90 \$	\$ 155,670.66 \$	74,892.81	\$ 146,333.74	\$ 25,650.51	\$ 63,595.47 \$	30,191.06

	Service Company Costs														
		Mar-20		Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	1	Nov-20	Dec-20	Jan-21	Feb-21
13	Supply Chain	\$ 7,071.07	\$	54,334.23	\$ 159,343.96	\$ 46,550.03	\$ 124,990.00	\$ 292,126.00	\$ (34,971.00) \$	16,277.74	\$	53,866.96	\$ (34.00) \$	82,988.85 \$	9,862.00
14	Communications & External Affairs	\$ -	\$	-	\$ -	\$ -	\$ 36,715.00	\$ 10,000.00	\$ - \$	- 9	\$	13,943.11	\$ - \$	1,468.76 \$	-
15	Facilities	\$ -	\$	-	\$ -	\$ -	\$ 29,427.89	\$ -	\$ 7,188.00 \$	- 9	\$	-	\$ - \$	- \$	-
16	Service Company Stipend	\$ -	\$	-	\$ -	\$ -	\$ 41,650.00	\$ 8,350.00	\$ 8,150.00 \$	8,050.00	\$	8,050.00	\$ 8,000.00 \$	8,000.00 \$	8,050.00
17	Total Service Company Costs	\$ 7,071.07	\$	54,334.23	\$ 159,343.96	\$ 46,550.03	\$ 232,782.89	\$ 310,476.00	\$ (19,633.00) \$	24,327.74	\$	75,860.07	\$ 7,966.00 \$	92,457.61 \$	17,912.00
			_												
18	PAWC Allocation	20.98%		20.98%	20.98%	20.98%	20.98%	20.98%	20.98%	20.98%		20.98%	20.98%	20.94%	20.94%
19	Total Service Company Costs to PAWC	\$ 1,484.00	\$	11,399.00	\$ 33,430.00	\$ 9,766.00	\$ 48,838.00	\$ 65,138.00	\$ (4,119.00) \$	5,104.00 \$	\$	15,915.00	\$ 1,671.00 \$	19,361.00 \$	3,751.00

Pennsylvania-American Water Incremental Direct Costs

Exhibit No. JCS-1 Page 5 of 6

PAWC Direct Costs Mar-21 Apr-21

PAWC Direct Costs		Mar-21	۸n	or-21	May-21		Jun-21		Jul-21	Aug-21	Sep-21	Oct-21	Nov-21		Dec-21		Jan-22	Feb-	22		Total	
		IVIAI - 2 I	Ap					•						•	Dec-21				-22	-		
1 Contract Services	\$	-	\$	833.38	\$ 4,075.19	15	4,647.47	\$	1,954.83 \$	3,161.10 \$	5,186.20	1,600.00	\$ 158.40	\$	-	\$	2,594.98	\$	-	\$	159,772.28	1
2 Customer Education	\$	-	\$	- 8	\$-	\$	-	\$	- \$	- \$	- 9	-	\$-	\$	-	\$	-	\$	-	\$	9,086.97	2
3 Employee Expenses	\$	991.80	\$	915.25	\$ 52.99) \$	6,616.63	\$	- \$	- \$	9,680.18	i - 1	\$ 604.79	\$	-	\$	370.00	\$	-	\$	28,392.93	3
4 Janitorial	\$	16,041.78	\$ 10	0,438.20	\$ 42,105.93	\$	46,837.58	\$	77,268.14 \$	6,566.25 \$	41,204.98	20,581.94	\$ 10,778.07	\$	11,841.16	\$	18,244.64	\$	-	\$	511,411.92	4
5 Lab Supplies	\$	-	\$	- 8	\$-	\$	-	\$	- \$	- \$	- 9	i - :	\$-	\$	-	\$	173.84	\$	-	\$	55,948.97	5
6 Materials and Supplies	\$	5,591.83	\$ 9	9,205.82	\$ 24,509.60) \$	8,796.38	\$	10,674.13 \$	11,507.76 \$	7,654.62	5,701.47	\$ 8,026.51	\$	11,852.56	\$	21,967.27	\$	-	\$	642,065.13	6
7 Miscellaneous	\$	1,069.60	\$ (1	1,472.74) \$	\$ (790.71)\$	2,712.04	\$	5,581.42 \$	2,801.57 \$	1,085.66	1,303.26	\$ 2,239.45	\$	2,547.11	\$	1,850.30	\$	-	\$	100,221.92	7
8 Office Supplies	\$	-	\$	- 5	\$ 3,926.36	5 \$	1,326.80	\$	192.99 \$	- \$	49.54	215.77	\$ 328.82	\$	-	\$	108.60	\$	-	\$	32,766.00	8
9 Rental Costs	\$	-	\$	16.56	\$ 8,013.00) \$	6,257.85	\$	6,383.60 \$	3,162.16 \$			\$-	\$	-	\$	-	\$	-	\$	26,360.57	9
10 Security Services	\$	-	\$	- 5	\$ 24,096.03	3 \$	10,701.04	\$	(22,944.08) \$	- \$	- 9		\$-	\$	(4,941.72)	\$	-	\$	-	\$	58,453.99	10
11 Transportation	\$	-	\$	- 9	\$-	\$	-	\$	- \$	- \$	- 9		\$-	\$		\$	-	\$	-	\$	24,441.46	11
12 Total PAWC Direct Costs	\$	23,695.01	\$ 19	9,936.47	\$ 105,988.39	\$	87,895.79	\$	79,111.03 \$	27,198.84 \$	64,861.18	29,402.44	\$ 22,136.04	\$	21,299.11	\$	45,309.63	\$	-	\$1	,648,922.14	12
											·	·									<u>. </u>	
Service Company Costs		Mar-21	A	or-21	May-21		Jun-21		Jul-21	Aug. 24	Sep-21	Oct-21	Nev 24		Dec-21		Jan-22	Feb-	22		Total	
13 Supply Chain	¢			<u>, 1-21</u>	iviay-21	¢		¢		Aug-21	(07.000.40) 4		Nov-21	¢	Dec-21	¢	Ja11-22	-den	-22	¢	807.486.45	40
13 Subbiv Chain	5	(612.76)	3	- 3	ъ –	. Б	9.134.31	ъ	(9.134.00) \$	23.355.48 \$	(27.002.42)		ъ –	ъ	-	ъ	-	3	-	3	807.486.45	13

				·	•				• • • • •	· · · · · · · · · · · · · · · · · · ·					•					
13 Supply Chain		\$	(612.76) \$	\$	- \$	-	\$	9,134.31 \$	(9,134.00) \$	23,355.48 \$	(27,662.42) \$	- \$	-	\$-	\$	-	\$	-	\$ 807,486.45	13
14 Communications &	k External Affairs	\$	- \$	\$	- \$	5,796.40	\$	6,057.63 \$	8,751.25 \$	7,011.93 \$	- \$	10,631.85 \$	10,642.51	\$ 9,916.1	3\$	-	\$	-	\$ 120,934.57	14
15 Facilities		\$	- \$	\$	- \$	-	\$	- \$	- \$	- \$	- \$	- \$		\$-	\$	-	\$	-	\$ 36,615.89	15
16 Service Company	Stipend	\$	8,000.00	\$ 7,85	60.00 \$	7,700.00	\$	7,650.00 \$	7,550.00 \$	7,400.00 \$	7,350.00 \$	6,800.00 \$	6,600.00	\$ 6,100.0	0\$	-	\$	-	\$ 171,300.00	16
17 Total Service Com	nany Costs	\$	7.387.24	\$ 7.84	0.00 \$	13.496.40	4	22.841.94 \$	7.167.25 \$	37.767.41 \$	(20.312.42) \$	17.431.85 \$	17.242.51	\$ 16.016.1	3 ¢	_	¢	-	\$ 1.136.336.91	17
		Ψ	1,501.24	φ 1,0	φ 00.00	10,430.40	Ψ	22,041.34 ψ	7,107.25 ψ	91,101.41 ψ	(20,012.42) ψ	17,401.00 ψ	17,242.01	φ 10,010.1	υψ		Ψ	-	ψ 1,100,000.01	• ''
18 PAWC Allocation			20.94%	20	.94%	20.94%		20.94%	20.94%	20.94%	20.94%	20.94%	20.94%	20.94	%	20.94%	2	0.94%		18
19 Total Service Cor	npany Costs to PAWC	\$	1,547.00	\$ 1,64	4.00 \$	2,826.00	\$	4,783.00 \$	1,501.00 \$	7,908.00 \$	(4,253.00) \$	3,650.00 \$	3,611.00	\$ 3,354.0	0\$	-	\$	-	\$ 238,309.00	19

PENNSYLVANIA AMERICAN WATER COMPANY CARRYING COSTS ON COVID-19 DEFERRAL

			I	· · · · · · · · · · · · · · · · · · ·	[A]	[B]	1	
	UNCOLLECTIBLE	INCREMENTAL			INTEREST	NUMBER OF	INTERES AMOUN	
DATE	EXPENSE	DIRECT COSTS	SAVINGS	TOTAL	RATE	MONTHS		
March-20 \$	\$ 270,756	\$ 13.864	\$ (978)	\$ 283.642	4.50%	34	\$	
April-20	\$ 144,833	\$ 208,585	\$ (204,270)	\$ 149,148	4.25%	33	\$	
May-20 \$	\$ 449,352	\$ 197,353	\$ (136,666)	\$ 510,039	3.75%	32	\$!	
June-20 \$	\$ 474,964	\$ 165,437	\$ (80,643)	\$ 559,758	3.50%	31	\$!	
July-20 \$	\$ 564,191	\$ 123,731	\$ (144,776)	\$ 543,146	3.50%	30	\$ 4	
August-20 \$	\$ 387,521	\$ 211,472	\$ (82,299)	\$ 516,693	3.75%	29	\$ 4	
September-20 \$	\$ (171,764)	\$ 21,532	\$ (87,627)	\$ (237,859)	3.50%	28	\$ (
October-20 \$	\$ 303,363	\$ 104,440	\$ (52,601)	\$ 355,202	3.50%	27	\$	
November-20 \$	\$ 812,577	\$ 79,393	\$ (36,727)	\$ 855,243	3.50%	26	\$	
December-20 \$	\$ 48,515	\$ 91,123	\$ (95,795)	\$ 43,843	3.75%	25	\$	
January-21 \$	\$ 1,914,897	\$ 82,956	\$ (56,397)	\$ 1,941,456	3.75%	24	\$ 14	
February-21 \$	\$ 948,280	\$ 109,739	\$ (102,670)	\$ 955,350	3.75%	23	\$	
March-21 \$	\$ (134,517)	\$ 89,443	\$ (24,253)	\$ (69,327)	4.00%	22	\$	
April-21 \$	\$ (375,117)	\$ 80,755	\$ (186,992)	\$ (481,355)	4.25%	21	\$ (3	
May-21 \$	\$ 1,064,446	\$ 30,025	\$ (143,783)	\$ 950,687	4.50%	20	\$	
June-21 \$	\$ 192,090	\$ 69,644	\$ (70,931)	\$ 190,804	4.50%	19	\$	
July-21 \$	\$ 1,074,797	\$ 30,903	\$ (114,960)	\$ 990,741	4.50%	18	\$	
August-21 \$	\$ 773,281	\$ 30,044	\$ (82,036)	\$ 721,289	4.50%	17	\$	
September-21 \$		\$ 17,046	\$ (68,008)		4.25%	16	\$	
October-21 \$	(/ · /		\$ (64,497)	\$ (270,204)	4.25%	15	\$ (
November-21 \$	\$ 95,249	\$ 27,306	\$ (13,720)	\$ 108,835	4.25%	14	\$	
December-21 \$	(\$ (73,117)		4.50%	13	\$	
January-22 \$			\$ (59,791)		4.25%	12	\$	
February-22 \$	\$ (425,970)	\$ -	\$-	\$ (425,970)	4.25%	11	\$ (1	

Total \$	8,667,342	\$ 1,887,231	\$ (1,983,536)	\$ 8,571,037		\$	687,787
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[A] Interest Rates per Act 6 Residential Lending Rates. 2020 - https://www.dobs.pa.gov/Documents/Act%206%20Rates/2020%20Act%206%20Monthly.pdf

2021 - https://www.dobs.pa.gov/Documents/Act%206%20Rates/Act%206%202021.pdf 2022 - https://www.dobs.pa.gov/For%20Media/Pages/Act-6-Information.aspx