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VIA eFiling

February 29, 2024

Rosemary Chiavetta, Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

Re: Pennsylvania-American Water Company ("PAWC")
2023 Wastewater Annual Asset Optimization Plan
Docket No. M-2024-_____

Dear Secretary Chiavetta:

Enclosed for filing is Pennsylvania-American Water Company's 2023 Wastewater Annual Asset Optimization Plan ("AAOP") in compliance with 66 Pa.C.S. § 1356.

A copy of the AAOP has been served upon the parties listed on the enclosed Certificate of Service. Should you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Elizabeth Rose Triscari".

Elizabeth Rose Triscari

Enclosures

cc: K. Shaffer, Bureau of Technical Utility Services w/Enc.
Certificate of Service

Pennsylvania-American Water Company 2023 Wastewater Annual Asset Optimization Plan

Introduction:

Pennsylvania-American Water Company (“PAWC”) files this Annual Asset Optimization Plan (“AAO Plan”) for its Wastewater Operations in compliance with 66 Pa C.S. § 1356. This section requires a utility with an approved distribution system improvement charge (“DSIC”) and a long-term infrastructure improvement plan (“LTIIIP”) to file an AAO Plan. PAWC received approval for its modified Wastewater DSIC and 2015-2023 LTIIIP from the Pennsylvania Public Utility Commission (“Commission”) by Order dated April 16, 2020 at Docket No. P-2014-2431005. PAWC received approval for its second Wastewater LTIIIP for the years 2024-2028 from the Pennsylvania Public Utility Commission in an Order dated June 15, 2023 at Docket No. P-2023-3038874.

The AAO Plan contained herein has the following elements:

- 1) A description of all eligible property repaired, improved, and replaced in the preceding 12 months, pursuant to the utility’s long-term infrastructure improvement plan and the prior year’s asset optimization plan; and
- 2) A detailed description of all facilities to be improved in the upcoming 12 months.

PAWC currently owns and operates 27 wastewater systems in Pennsylvania. 18 of these systems are included in the 2015-2023 LTIIIP and 2023 expenditures related to these systems are contained in this AAOP. The remaining 9 systems were included in the 2024 – 2028 LTIIIP and are included in the 2024 projections contained in this AAOP.

Tables 1 and 2, below provide a detailed description of eligible property contained in PAWC’s wastewater systems, including total lengths of gravity mains, force mains, manholes, valves, lift stations, and active customers by district. Tables 3 through 6 provide summaries of sewer main lengths by size and material for each district.

Table 1: Description of PAWC's 2023 DSIC Eligible Wastewater Systems

TOTAL (EOY 2023)								
District #	District Description	Gravity Main (LF)	Force/Low Pressure Main (LF)	Total Main (LF)	Manholes	Valves	Lift Stations	No. Customers as of 12/31/2022
2412	McKeesport WW*	923,969	36,549	960,519	4,748	17	13	10,500
2412	*includes McKeesport, Dravosburg, and Duquesne Systems							
2426	Claysville WW	59,243	1,149	60,392	342	0	1	486
2435	Koppel WW	27,582	0	27,582	122	1	0	358
2436	Marcel Lakes WW	30,732	28,597	59,328	130	114	2	361
2437	Franklin WW*	56,608	12,423	69,030	198	10	1	350
2437	*includes Hamiltonban							
2438	Paint Elk WW*	94,173	22,487	116,661	442	95	6	428
2438	*includes Shippenville							
2447	Clarion WW	214,540	36,953	251,493	1,059	141	6	2,464
2458	Pocono County Place WW	150,328	99,807	250,136	643	141	2	3,851
2460	Fairview WW - North	166,853	20,563	187,416	874	3	11	4,164
2460	Fairview WW - South	199,651	12,895	212,546	1,067	0	6	
2467	Coatesville WW*	672,472	139,015	811,487	3,306	19	26	10,879
2467	*includes Sadsbury & Valley							
2469	Blue Mountain Lake WW	0	67,899	67,899	0	124	6	878
2469	Lehman Pike WW - Saw Creek	0	266,700	266,700	1	295	13	2,864
2485	McEwensville WW	12,669	1,242	13,911	57	0	4	129
2487	New Cumberland WW	145,413	6,899	152,312	613	0	3	3,099
2492	Scranton WW	1,743,172	12,269	1,755,442	9,427	0	7	30,033
	Total	6,225,520	870,401	7,095,921	30,692	960	134	97,928

Table 2: Summary sewer main lengths by district

DISTRICT CODE	DISTRICT	TOTAL MILES (2022 AAOP)	TOTAL MILES (2023 AAOP)	2022 - 2023 MILES DIFFERENCE	2023 MILES OF NEW MAIN
2412	McKeesport WW	178.0	181.9	3.9	0.3
2426	Claysville WW	11.4	11.4	0.0	0.0
2435	Koppel WW	5.2	5.2	0.0	0.0
2436	Marcel Lakes WW	11.2	11.2	0.0	0.0
2437	Franklin WW*	13.1	13.1	0.0	0.0
2437	*includes Hamiltonban				
2438	Paint Elk WW*	21.7	22.1	0.3	0.0
2438	*includes Shipperville				
2447	Clarion WW	47.4	47.6	0.2	0.0
2458	Pocono County Place WW	47.4	47.4	0.0	0.0
2460	Fairview WW - North	35.3	35.5	0.2	0.0
2460	Fairview WW - South	39.9	40.3	0.4	0.0
2467	Coatesville WW*	150.0	153.7	3.7	1.5
2467	*includes Sadsbury & Valley				
2469	Blue Mountain Lake WW	12.9	12.9	0.0	0.0
2469	Lehman Pike WW - Saw Creek	50.5	50.5	0.0	0.0
2485	McEwensville WW	2.6	2.6	0.0	0.0
2487	New Cumberland WW	28.8	28.8	0.0	0.0
2492	Scranton WW	331.6	332.5	0.9	0.0
TOTAL		987.2	996.8	9.6	1.9

Table 3: Sewer main length by diameter by district (MI)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY DIAMETER (MI)							TOTAL (MI)
		≤ 4"	6" - 8"	10" - 12"	14" - 18"	20" - 24"	> 24"	Unknown	
2412	McKeesport WW	0.3	41.9	51.6	35.4	13.4	11.4	27.8	181.9
2426	Claysville WW	0.2	9.5	1.7	0.0	0.0	0.0	0.0	11.4
2435	Koppel WW	0.6	3.2	0.4	1.0	0.0	0.0	0.0	5.2
2436	Marcel Lakes WW	5.4	5.2	0.7	0.0	0.0	0.0	0.0	11.2
2437	Franklin WW*	0.0	11.2	1.7	0.0	0.0	0.0	0.3	13.1
2437	*includes Hamiltonban								
2438	Paint Elk WW*	2.3	19.2	0.2	0.2	0.0	0.0	0.1	22.1
2438	*includes Shippenville								
2447	Clarion WW	0.9	36.7	6.1	2.5	0.4	0.6	0.6	47.6
2458	Pocono County Place WW	15.5	27.6	1.2	2.6	0.2	0.1	0.2	47.4
2460	Fairview WW - North	0.9	31.0	3.4	0.0	0.2	0.0	0.0	35.5
2460	Fairview WW - South	0.0	39.2	1.1	0.0	0.0	0.0	0.0	40.3
2467	Coatesville WW*	9.6	70.4	8.8	5.9	1.0	1.4	56.5	153.7
2467	*includes Sadsbury & Valley								
2469	Blue Mountain Lake WW	10.6	2.3	0.0	0.0	0.0	0.0	0.0	12.9
2469	Lehman Pike WW - Saw Creek	41.7	7.2	1.6	0.0	0.0	0.0	0.0	50.5
2485	McEwensville WW	0.1	2.1	0.3	0.0	0.0	0.0	0.1	2.6
2487	New Cumberland WW	0.1	24.4	2.9	1.4	0.1	0.1	0.0	28.8
2492	Scranton WW	0.5	133.2	110.5	37.0	21.0	26.3	3.9	332.5
	TOTAL (MI)	89	464	192.0	86.0	36.3	39.9	89.5	996.7

Table 4: Sewer main length by diameter by district (%)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY DIAMETER (MI)							TOTAL (MI)
		≤ 4"	6" - 8"	10" - 12"	14" - 18"	20" - 24"	> 24"	Unknown	
2412	McKeesport WW	0.2%	23.0%	28.4%	19.5%	7.4%	6.3%	15.3%	181.9
2426	Claysville WW	1.9%	82.9%	15.2%	0.0%	0.0%	0.0%	0.0%	11.4
2435	Koppel WW	11.7%	62.0%	7.4%	19.0%	0.0%	0.0%	0.0%	5.2
2436	Marcel Lakes WW	48.2%	45.9%	5.9%	0.0%	0.0%	0.0%	0.0%	11.2
2437	Franklin WW*	0.0%	85.4%	12.6%	0.0%	0.0%	0.0%	2.0%	13.1
2437	*includes Hamiltonban								
2438	Paint Elk WW*	10.5%	87.1%	0.7%	1.1%	0.0%	0.0%	0.6%	22.1
2438	*includes Shippenville								
2447	Clarion WW	1.9%	77.0%	12.7%	5.2%	0.9%	1.2%	1.2%	47.6
2458	Pocono County Place WW	32.8%	58.3%	2.5%	5.5%	0.4%	0.2%	0.4%	47.4
2460	Fairview WW - North	2.5%	87.2%	9.6%	0.0%	0.7%	0.0%	0.0%	35.5
2460	Fairview WW - South	0.0%	97.3%	2.7%	0.0%	0.0%	0.0%	0.0%	40.3
2467	Coatesville WW*	6.2%	45.8%	5.7%	3.8%	0.7%	0.9%	36.8%	153.7
2467	*includes Sadsbury & Valley								
2469	Blue Mountain Lake WW	82.2%	17.8%	0.0%	0.0%	0.0%	0.0%	0.0%	12.9
2469	Lehman Pike WW - Saw Creek	82.6%	14.3%	3.1%	0.0%	0.0%	0.0%	0.0%	50.5
2485	McEwensville WW	5.3%	78.7%	11.6%	0.0%	0.0%	0.0%	4.3%	2.6
2487	New Cumberland WW	0.4%	84.6%	10.0%	4.7%	0.2%	0.2%	0.0%	28.8
2492	Scranton WW	0.1%	40.1%	33.2%	11.1%	6.3%	7.9%	1.2%	332.5
TOTAL (MI)		89	464	192.0	86.0	36.3	39.9	89.5	996.7

Table 5: Sewer main length by material by district (MI)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY MATERIAL (MI)																	TOTAL (MI)
		ABS	AC/TR	Brick	CIL	CIU	COBBLESTONE	DI	HDPE	PCCP	PE	PVC	RCP	ST	STONE	VCP	OTH	UNKNOWN	
2412	McKeesport WW	0.0	0.0	0.6	1.4	53.3	0.0	0.3	0.3	0.0	0.2	15.1	8.2	0.0	0.0	84.4	2.3	15.7	181.9
2426	Claysville WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	11.4
2435	Koppel WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	3.1	0.0	0.0	5.2
2436	Marcel Lakes WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	11.2
2437	Franklin WW*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	1.7	0.0	0.0	13.1
2437	*includes Hamiltonban																		
2438	Paint Elk WW*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.1	0.0	0.0	17.1	0.0	0.0	0.0	1.1	0.0	0.8	22.1
2438	*includes Shippenville																		
2447	Clarion WW	1.1	0.0	0.0	0.0	0.0	0.0	1.6	5.8	0.0	0.0	22.9	0.0	0.0	0.0	12.0	0.0	4.2	47.6
2458	Pocono County Place WW	22.7	0.1	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.0	23.4	0.4	0.0	0.0	0.0	0.0	0.0	47.4
2460	Fairview WW - North	0.0	9.3	0.0	0.0	0.0	0.0	0.3	0.9	0.0	0.0	20.8	0.0	0.0	0.0	4.1	0.0	0.0	35.5
2460	Fairview WW - South	0.0	2.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	37.5	0.0	0.0	0.0	0.2	0.0	0.0	40.3
2467	Coatesville WW*	0.0	0.0	0.0	0.3	0.0	0.0	0.4	5.0	0.0	0.4	59.7	0.3	0.0	0.0	21.4	0.0	66.2	153.7
2467	*includes Sadsbury & Valley																		
2469	Blue Mountain Lake WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	12.9
2469	Lehman Pike WW - Saw Creek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7	17.8	0.0	0.0	0.0	0.0	0.0	0.0	50.5
2485	McEwensville WW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6
2487	New Cumberland WW	0.0	0.0	0.0	1.0	0.0	0.0	0.3	0.0	0.0	0.0	2.0	0.1	0.0	0.0	25.4	0.0	0.1	28.8
2492	Scranton WW	0.1	0.0	4.5	0.2	0.2	0.5	0.6	0.6	0.1	0.2	20.1	9.8	0.0	0.1	111.7	0.7	183.1	332.5
	TOTAL (MI)	23.8	11.9	5.2	3.0	54.2	0.5	3.9	19.7	0.1	33.5	284.1	18.8	0.0	0.1	265.0	3.0	270.1	996.7

NOTE:

1) 'OTH' material includes, but is not limited to, Corrugated Metal Pipe, Corrugated Plastic Pipe, and Corrugated Polyethylene Pipe.

Table 6: Sewer main length by material by district (%)

DISTRICT CODE	DISTRICT	TOTAL LENGTH BY MATERIAL (MI)																	TOTAL (MI)
		ABS	AC/TR	Brick	CIL	CIU	COBBLESTONE	DI	HDPE	PCCP	PE	PVC	RCP	ST	STONE	VCP	OTH	UNKNOWN	
2412	McKeesport WW	0.0%	0.0%	0.3%	0.8%	29.3%	0.0%	0.2%	0.1%	0.0%	0.1%	8.3%	4.5%	0.0%	0.0%	46.4%	1.2%	8.6%	181.9
2426	Claysville WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.4
2435	Koppel WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	40.9%	0.0%	0.0%	0.0%	58.5%	0.0%	0.0%	5.2
2436	Marcel Lakes WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.2
2437	Franklin WW*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	87.3%	0.0%	0.0%	0.0%	12.7%	0.0%	0.0%	13.1
2437	*includes Hamiltonban																		0.0
2438	Paint Elk WW*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	14.0%	0.0%	0.0%	77.2%	0.0%	0.0%	0.0%	4.9%	0.0%	3.4%	22.1
2438	*includes Shipperville																		0.0
2447	Clarion WW	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	12.3%	0.0%	0.0%	48.1%	0.0%	0.0%	0.0%	25.2%	0.0%	8.8%	47.6
2458	Pocono County Place WW	47.8%	0.1%	0.0%	0.0%	1.3%	0.0%	0.5%	0.0%	0.0%	0.0%	49.3%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	47.4
2460	Fairview WW - North	0.0%	26.3%	0.0%	0.0%	0.0%	0.0%	0.9%	2.6%	0.0%	0.0%	58.6%	0.0%	0.0%	0.0%	11.6%	0.0%	0.0%	35.5
2460	Fairview WW - South	0.0%	6.2%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	93.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	40.3
2467	Coatesville WW*	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.2%	3.3%	0.0%	0.2%	38.8%	0.2%	0.0%	0.0%	13.9%	0.0%	43.1%	153.7
2467	*includes Sadsbury & Valley																		0.0
2469	Blue Mountain Lake WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.4%	0.0%	0.0%	69.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.9
2469	Lehman Pike WW - Saw Creek	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.8%	35.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.5
2485	McEwensville WW	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6
2487	New Cumberland WW	0.0%	0.0%	0.0%	3.4%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	6.9%	0.2%	0.0%	0.0%	88.2%	0.0%	0.2%	28.8
2492	Scranton WW	0.0%	0.0%	1.4%	0.0%	0.1%	0.1%	0.2%	0.2%	0.0%	0.1%	6.1%	2.9%	0.0%	0.0%	33.6%	0.2%	55.1%	332.5
	TOTAL (MI)	23.8	11.9	5.2	3.0	54.2	0.5	3.9	19.7	0.1	33.5	284.1	18.8	0.0	0.1	265.0	3.0	270.1	996.7

NOTE:

1) 'OTH' material includes, but is not limited to, Corrugated Metal Pipe, Corrugated Plastic Pipe, and Corrugated Polyethylene Pipe

Table 7: System Flows and Estimated I&I for Years 2021 through Oct 2023

Sanitary Sewer Systems	2019		2020		2021		2022		2023 through July	
	WWTP Flows	Estimated I&I	WWTP Flows	Estimated I&I	WWTP Flows	Estimated I&I	WWTP Flows	Estimated I&I	WWTP Flows	Estimated I&I
	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals
Clarion WW/Paint Elk WW	536,520	302,142	439,933	221,190	463,642	264,057	482,895	281,678	211,016	116,311
Claysville WW	37,017	17,465	32,361	14,563	30,021	11,385	31,646	12,812	15,655	6,622
Clean Treatment WW	14,053	2,437	14,366	2,008	15,360	2,698	15,014	2,359	7,955	1,889
Coatesville WW	1,220,225	224,139	1,381,559	433,827	1,202,249	276,715	1,108,579	489,781	519,835	238,728
Fairview WW/New Cumberland WW	544,579	210,933	493,154	129,398	525,021	179,856	584,930	251,349	254,483	95,744
Franklin WW ⁽²⁾	29,468	4,844	26,252	1,412	30,484	5,428	28,981	3,853	12,978	378
Koppel WW	78,445	66,714	62,678	51,333	54,568	41,683	36,865	25,672	20,182	15,619
Lehman Pike WW ⁽¹⁾	114,226	(10,627)	128,172	(14,350)	129,352	(6,913)	117,420	(11,844)	55,537	(4,804)
McEwensville WW	6,604	1,040	6,518	889	6,953	1,612	7,191	2,262	2,961	527
Pocono WW	226,635	84,366	243,787	91,180	261,097	119,250	261,144	124,766	118,585	55,316
Combined Sewer Systems	WWTP Flows	Permitted Stormwater and I&I	WWTP Flows	Permitted Stormwater and I&I	WWTP Flows	Permitted Stormwater and I&I	WWTP Flows	Permitted Stormwater and I&I	WWTP Flows	Permitted Stormwater and I&I
	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals	1000 gals
McKeesport WW	4,203,492	3,661,526	4,295,831	3,750,618	4,444,757	3,933,817	4,317,151	3,787,414	1,808,220	1,566,439
Scranton WW	5,009,017	2,812,295	4,557,615	2,370,727	4,696,212	2,481,243	4,281,450	2,115,997	1,904,754	858,674
Notes:										
(1) Lehman Pike WW is primarily a low pressure system with very little I&I. Small differences can be attributed to metering and conspitive water use. 2022 data includes WWTP flows from Saw Creek WWTP and Blue Mountain Lake WWTP.										
(2) Franklin WW does not have a metered water system, the 2019 average per customer flow of 72,000 gpy (197 gpd) was used to approximate flow.										

Table 7 shows the annual WWTP flows and estimated annual inflow and infiltration (I&I) for each wastewater district. The Koppel and Scranton WW systems are excellent examples of the value of sewer main rehabilitation and replacement. The Koppel WW system reduced its flow to the WWTP by 53%, starting at 78.5 million GPY in 2019 and reducing to 36.9 million GPY in 2022 because of a rigorous sewer replacement and rehabilitation program. While improvements are more difficult to quantify in combed systems, the Scranton WW system has reduced annual flow to the WWTP by 727 million GPY over 3 years, the steady decline can in part be attributed to a targeted sewer replacement and rehabilitation program.

Long Term Infrastructure Plan Summary

From 2015 through 2023, PAWC has continuously invested in its wastewater infrastructure to maintain safe, reliable service to its customers. The chart below compares the actual to projected expenditures from 2015 to 2023.

Table 8: Projected and Actual Annual Expenditures (2015 to 2028)

Year	Projected Annual Expenditures	Projected 4-year Average Expenditures	Actual Annual Expenditures	Actual 4-year Average Expenditures
2015	\$5,265,244		\$8,923,443	
2016	\$5,290,000		\$5,509,055	
2017	\$5,682,655		\$8,416,554	
2018	\$5,097,241	\$5,333,785	\$4,810,440	\$6,914,873
2019	\$33,870,930	\$12,485,207	\$32,877,761	\$12,903,453
2020	\$18,184,674	\$15,708,875	\$27,652,414	\$18,439,292
2021	\$20,351,465	\$19,376,078	\$25,594,318	\$22,733,733
2022	\$19,495,725	\$22,975,699	\$26,197,473	\$28,080,491
2023 ^a	\$40,680,000	\$24,657,643	\$49,949,064	\$32,348,317
2024	\$49,479,877	\$32,481,443		
2025	\$38,488,508	\$37,015,704		
2026	\$65,542,294	\$48,527,346		
2027	\$53,752,431	\$51,815,778		
2028	\$57,654,419	\$53,859,413		
Total	\$418,754,169		\$189,930,522	

a 2023 projection was updated from \$23.84M to \$40.68M in the 2024-2028 Wastewater LTIP.

The 23% increase from the LTIP's projected expenditure and the actual expenditure in 2023 is largely due to inflation. Similar to 2021 and 2022, pipe, fitting, and restoration costs have increased at a rate higher than what was anticipated when the revised 2023 LTIP budget was prepared. PAWC's condition assessments continue to show significant investment needs, particularly in the Scranton and McKeesport systems. PAWC strives to reduce expenditures through favoring rehabilitation over replacement whenever possible. Table 9 shows a breakdown of 2023 costs by district and Table 10 shows this expenditure in more detail.

Table 9: Summary of Wastewater DSIC-eligible expenditures – Calendar year 2023

District	Actual Expenditures - 2023
2412-PA-McKeesport WW	\$19,479,378
2426-PA-Claysville WW	\$180,098
2435-PA-Koppel WW	\$3,351,723
2436-PA-Marcel Lakes WW	\$0
2437-PA-Franklin WW	\$0
2438-PA-Paint Elk Twp WW	(\$4,037)
2447-PA-Clarion WW	\$632,114
2458-PA-Pocono WW	\$780,219
2460-PA-Fairview WW	(\$4)
2467-PA-Coatesville WW	\$3,557,392
2469-PA-Lehman Pike WW	\$253,557
2485-PA-McEwensville WW	\$0
2487-PA-New Cumberland WW	\$38,215
2492-PA-Scranton WW	\$21,680,409
TOTAL 2023 LTIIP Eligible	\$49,949,064

**Table 10: Detailed Project Listing of Wastewater-DSIC eligible projects – Calendar year 2023
Actual**

District	Funding Project Number	Description:	Installed Quantity	Capital Investment 2022
2412-PA-McKeesport WW				
12	I24-120013-01	McKeesport - N East Shore Forcemain	2,200 ft	\$1,832,995
12	I24-120013-02	McKeesport - S East Shore Forcemain	3,456 ft	\$871,850
12	I24-120021-01	DQSN-Wylie Ave 60" Rehabilitation	5 ft	\$52,852
12	I24-120021-02	DUQ-Wylie Ave Rehab MH108-356	700 ft	\$1,134,842
12	I24-120021-03	DUQ-Wylie Ave Rehab MH97A-108	678 ft	\$530,929
12	I24-120022-01	MCKE - Ravine St 72" Rehabilitation	485 ft	\$6,599,610
12	R24-12B1	Sewer line replacement projects (including manholes and laterals)	26,804 ft	\$8,209,563
12	R24-12C1	Emergency sewer main replacement work.	0 ft	\$28,788
12	R24-12D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
12	R24-12F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$217,948
12	R24-12H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0
12 Total			26,804 ft	\$19,479,378
2426-PA-Claysville WW				
26				
26	R24-26B1	Sewer line replacement projects (including manholes and laterals)	400 ft	\$180,098
26	R24-26C1	Emergency sewer main replacement work.	0 ft	\$0
26	R24-26D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
26	R24-26F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
26	R24-26H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0

26 Total			400 ft	\$180,098
2435-PA-Koppel WW				
35				
35	R24-35B1	Sewer line replacement projects (including manholes and laterals)	7,340 ft	\$3,351,723
35	R24-35C1	Emergency sewer main replacement work.	0 ft	\$0
35	R24-35D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
35	R24-35F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
35	R24-35H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0
35 Total			7,340 ft	\$3,351,723
2436-PA-Marcel Lakes WW				
36				
36	R24-36B1	Sewer line replacement projects (including manholes and laterals)	0 ft	\$0
36	R24-36C1	Emergency sewer main replacement work.	0 ft	\$0
36	R24-36D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
36	R24-36F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
36	R24-36H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0
36 Total			0 ft	\$0
2437-PA-Franklin WW				
37				
37	R24-37B1	Sewer line replacement projects (including manholes and laterals)	0 ft	\$0
37	R24-37C1	Emergency sewer main replacement work.	0 ft	\$0
37	R24-37D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
37	R24-37F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0

37	R24-37H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0
37 Total			0 ft	\$0
2438-PA- Paint Elk Twp WW				
38				
38	R24-38B1	Sewer line replacement projects (including manholes and laterals)	0 ft	(\$7,183)
38	R24-38C1	Emergency sewer main replacement work.	0 ft	\$172
38	R24-38D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
38	R24-38F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
38	R24-38H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$2,974
38 Total			0 ft	(\$4,037)
2447-PA- Clarion WW				
47	IP			(\$231,380)
47	R24-47B1	Sewer line replacement projects (including manholes and laterals)	2,250 ft	\$786,841
47	R24-47C1	Emergency sewer main replacement work.	0 ft	\$278
47	R24-47D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$5
47	R24-47F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$41,991
47	R24-47H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$34,379
47 Total			2,250 ft	\$632,114
2458-PA- Pocono WW				
58				
58	R24-58B1	Sewer line replacement projects (including manholes and laterals)	2,500 ft	\$679,191
58	R24-58C1	Emergency sewer main replacement work.	0 ft	\$758
58	R24-58D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
58	R24-58F1	Manhole replacements at locations determined to be deficient during	0	\$0

		annual manhole inspection program is required.		
58	R24-58H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$100,269
58 Total			2,500 ft	\$780,219
2460-PA-Fairview WW				
60				
60	R24-60B1	Sewer line replacement projects (including manholes and laterals)	0 ft	(\$4)
60	R24-60C1	Emergency sewer main replacement work.	0 ft	\$0
60	R24-60D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
60	R24-60F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
60	R24-60H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0
60 Total			0 ft	(\$4)
2467-PA-Coatesville WW				
67				
67	R24-67B1	Sewer line replacement projects (including manholes and laterals)	7,246 ft	\$3,195,515
67	R24-67C1	Emergency sewer main replacement work.	14 ft	\$37,331
67	R24-67D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
67	R24-67F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
67	R24-67H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$324,546
67 Total			7,260 ft	\$3,557,392
2469-PA-Lehman Pike WW				
69				
69	R24-69B1	Sewer line replacement projects (including manholes and laterals)	0 ft	\$0
69	R24-69C1	Emergency sewer main replacement work.	0 ft	\$1,838

69	R24-69D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
69	R24-69F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$224
69	R24-69H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$251,496
69 Total			0 ft	\$253,557
2485-PA-McEwensville WW				
85				
85	R24-85B1	Sewer line replacement projects (including manholes and laterals)	0 ft	\$0
85	R24-85C1	Emergency sewer main replacement work.	0 ft	\$0
85	R24-85D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
85	R24-85F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
85	R24-85H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$0
85 Total			0 ft	\$0
2487-PA-New Cumberland WW				
87				
87	R24-87B1	Sewer line replacement projects (including manholes and laterals)	0 ft	\$0
87	R24-87C1	Emergency sewer main replacement work.	0 ft	\$0
87	R24-87D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$0
87	R24-87F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$0
87	R24-87H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$38,215
87 Total			0 ft	\$38,215
2492-PA-Scranton WW				
92	I24-920041-01	Outfall #021 - West Scranton Street	495 ft	\$2,975,842

92	IP	True Ups		\$1,612
92	R24-92B1	Sewer line replacement projects (including manholes and laterals)	39,450 ft	\$12,984,398
92	R24-92C1	Emergency sewer main replacement work.	1,193 ft	\$2,047,169
92	R24-92D1	Carry over cost for Sewer line relocation projects from a prior year	0 ft	\$1,078,126
92	R24-92F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program is required.	0	\$1,743,901
92	R24-92H1	Lateral replacements at locations determined to be deficient during annual inspection program.	0	\$849,360
92 Total			40,643 ft	\$21,680,409
TOTAL			87,197 ft	\$49,949,064

The project listing in Table 11, below, is envisioned for 2024 and consists of a mixture of sewer line replacement, manhole and company owned lateral work. The information is preliminary and subject to change. 2024 is the start of the 2024-2029 LTIP and costs reflect the addition DSIC eligible 9 wastewater systems. These systems include Foster Township, Turbotville, York, Wild Acres, Exeter, Royersford, Upper Pottsgrove, Kane Kinzua, and Kane Pine St.

Table 11: Detailed Project Listing of Wastewater DSIC-Eligible projects – Calendar year 2024

Projected **\$39,833,866**

District	Region	Line Item	Project	WBS Element	WBS In-service date	WBS Description	2022 LTIP Projection
2460	Central	X-IP	I24-60	I24-600007	4/30/2024	Fairview South Bienhower Lift Station	\$1,272,083.07
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0002	12/31/2023	SR 837-2024 DRAV-DH1	\$38,887.32
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0003	12/31/2023	SR 837 - 2024 DRAV-DH2	\$36,749.84
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0004	12/31/2023	SR 837 - 2024 DRAV-DH3	\$41,541.82
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0005	12/31/2023	SR 837 - 2024 DRAV-DH4	\$29,565.42
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0006	12/31/2023	SR-837 - 2024-DRAV-DH5	\$34,462.82
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0015	12/31/2023	Maryland Ave - 2024 MDQSN-DH14	\$66,932.90
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0016	12/31/2023	Maryland Ave - 2024 MDQSN-DH15	\$55,494.50

2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0017	12/31/2023	Mayland Ave - 2024 MDQSN-DH16	\$23,371.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0019	12/31/2023	Maryland Ave - 2024 MDQSN-DH18	\$17,470.94
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0020	12/31/2023	Summit Aly-2024 MDQSN-DH19	\$61,218.94
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0023	12/31/2023	Hill St - 2024 MDQSN- DH22	\$36,500.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0024	12/31/2023	High St - 2024 MDQSN- DH23	\$48,340.44
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0026	12/31/2023	Crawford Ave - 2024 MDQSN-DH25	\$23,825.40
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0027	12/31/2023	Crawford Ave - 2024 MDQSN-DH26	\$18,730.62
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0029	12/31/2023	Crawford Ave - 2024 MDQSN-DH28	\$15,315.10
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0030	12/31/2023	Crawford Ave - 2024 MDQSN-DH29	\$2,436.78
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0031	4/30/2024	Crawford Ave - 2024 MDQSN-DH30	\$59,936.83
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0032	12/31/2023	Crawford Ave - 2024 MDQSN-DH31	\$17,917.96
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0033	12/31/2023	Crawford Ave - 2024 MDQSN-DH32	\$36,220.28
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0034	12/31/2023	Wood Aly-Graff Ave - 2024 MDQSN-DH33	\$30,505.08
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0011	12/31/2023	McClure - 2024 MDRAV- DH10	\$24,081.11
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0012	12/31/2023	McClure - 2024 MDRAV- DH11	\$22,282.78
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0013	12/31/2023	Charles St - 2024 MDRAV-DH12	\$10,964.98
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0014	12/31/2023	Elicabeth St - 2024 MDRAV-DH13	\$52,182.68
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0007	12/31/2023	SR-837 - 2024 MDRAV- DH6	\$36,411.52
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0008	12/31/2023	SR-837 - 2024 MDRAV- DH7	\$35,445.72
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0009	12/31/2023	SR-837 - 2024 MDRAV- DH8	\$35,945.72
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0010	12/31/2023	SR-837 - 2024 MDRAV- DH9	\$31,609.28

2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0035	12/31/2023	Perry St - 2024 MMCKE-DH34	\$14,953.52
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0036	12/31/2023	Perry Ave - 2024 MMCKE-DH35	\$4,683.58
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0037	4/30/2024	Gross St - 2024 MMCKE-DH36-1-2	\$67,164.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0038	12/31/2023	Gross St - 2024 MMCKE-DH37	\$21,715.02
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0041	12/31/2023	W 5th Ave - 2024 MMCKE-DH40	\$69,911.20
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0042	12/31/2023	Monterey Ave - 2024 MMCKE-DH41	\$39,699.98
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0044	12/31/2023	Reynolds Ave - 2024 MMCKE-DH43	\$80,862.38
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0046	4/30/2024	Otis Aly	\$40,000.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0049	4/30/2024	Reynolds Ave - 2024 MMCKE-DH48	\$28,645.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0055	12/31/2023	Jefferson St - 2024 MMCKE-DH54	\$70,129.82
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0056	12/31/2023	Grandview Ave - 2024 MMCKE-DH55	\$29,026.28
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0057	4/30/2024	Grandview Ave - 2024 MMCKE - DH56	\$41,483.36
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0059	4/30/2024	McClary St - 2024 MMCKE-DH58	\$56,457.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0060	4/30/2024	Craig St - 2024 MMCKE-DH59	\$30,939.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0061	12/31/2023	Craig St - 2024 MMCKE-DH60	\$58,594.33
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0063	4/30/2024	Craig St - 2024 MMCKE-DH62	\$43,115.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0064	12/31/2023	Craig St - 2024 MMCKE-DH63	\$47,265.10
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0067	12/31/2023	2024-MMCKE-DH66	\$40,864.52
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0068	12/31/2023	2024-MMCKE-DH67	\$19,289.28
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0069	12/31/2023	2024-MMCKE-DH68	\$17,996.36
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0074	4/30/2024	2024-MMCKE-DH73	\$55,511.78
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0075	4/30/2024	2024-MMCKE-DH74	(\$284,556.10)
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.23-P-0078	12/29/2023	MCK 2023-MMCKE-2MEC-BROWNLEE ST 550'	(\$299,987.61)

2412	McKeesport_WW	B1	R24-12B1	R24-12B1.23-P-0080	12/29/2023	MCK 2023-MMCKE-4MEC-HOFFMAN ALLEY 455'	(\$689,293.02)
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.23-P-0081	12/29/2023	MCK 2023-MMCKE-5MEC-LINDBERG DR - 210'	(\$154,760.30)
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0076	12/31/2023	2024-MMCKE-DH75	\$0.00
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0077	12/31/2023	2024-MMCKE-DH76	\$0.00
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0078	12/31/2023	2024-MMCKE-DH77-1	\$0.00
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0079	12/31/2023	2024-MMCKE-DH77-2	\$0.00
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0080	12/31/2023	2024-MMCKE-DH78	\$0.00
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0081	12/31/2023	2024-MMCKE-DH79	\$0.00
2412	McKeesport_WW	B1	R12-12B1	R12-12B1.24-P-0082	12/31/2023	2024-MMCKE-DH80	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0084	4/30/2024	MCK 2024-MMCKE-DH82 WALNUT ST	\$125,134.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0085	4/30/2024	MCK 2024-MMCKE-DH83 WALNUT ST	\$85,954.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0086	12/31/2023	MCK 2024-MMCKE-DH84 24TH ST	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0087	12/31/2023	MCK 2024-MMCKE-DH85 24TH ST	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0018	12/31/2023	2024-MDQSN-DH17	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0025	12/31/2023	2024-MDQSN-DH24	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0028	12/31/2023	2024-MDQSN-DH27	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0040	4/30/2024	2024-MMCKE-DH39	\$55,498.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0043	12/31/2023	2024-MMCKE-DH42	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0045	4/30/2024	2024-MMCKE-DH44	\$69,538.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0047	4/30/2024	2024-MMCKE-DH46	\$101,083.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0051	4/30/2024	2024-MMCKE-DH50	\$67,164.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0052	4/30/2024	2024-MMCKE-DH51	\$34,039.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0053	12/31/2023	2024-MMCKE-DH52	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0054	12/31/2023	2024-MMCKE-DH53	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0062	12/31/2023	2024-MMCKE-DH61	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0065	4/30/2024	2024-MMCKE-DH64	\$17,073.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0066	4/30/2024	2024-MMCKE-DH65	\$35,209.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0070	12/31/2023	2024-MMCKE-DH69	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0071	12/31/2023	2024-MMCKE-DH70	\$0.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0072	4/30/2024	2024-MMCKE-DH71	\$130,000.00
2412	McKeesport_WW	B1	R24-12B1	R24-12B1.24-P-0058	12/31/2023	2024-MMCKE-DH57	\$0.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-000x	10/31/2024	Shelbourne Rd WW MEX-1782 to MEX-1781	\$58,050.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0009	9/1/2024	Oley Turnpike RD MSL-3 to MSL-2	\$141,270.00

2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0006	8/31/2024	Perkiomen Ave MEX-1852 to MEX-1851	\$12,599.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0008	9/1/2024	Antietam MEX-1517 to MEX-2434	\$123,628.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0011	10/1/2024	Heisters Creek MEX-2096 to MEX-2097	\$141,774.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0012	11/1/2024	Heisters Creek MEX-2123 to MEX-2099	\$182,960.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0007	8/1/2024	Heisters Creek MEX-2149 to MEX-2148	\$115,224.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0004	5/31/2024	Exeter Rd MEX-1164 to MEX-1166	\$91,350.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0003	8/31/2024	Butter Lane MLA-8 to MLA-10	\$181,663.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0002	5/31/2024	Rugby Road MEX-103 to MEX-101	\$133,650.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0005	5/31/2024	Littlefield Ave MEX-794 to MEX-781	\$30,150.00
2413	Southeast	B1	R24-13B1	R24-13B1.24-P-0010	10/1/2024	Rugby Rd MEX-1840 to MEX-714	\$149,600.00
2417	Southeast	B1	R24-17B1	R24-17B1.24-P-0002	5/31/2024	Green St (3rd to 6th)	\$1,355,400.00
2419	Northwest	B1	R24-19B1	R24-19B1.23-P-000x	12/31/2024	Greeves	\$89,700.00
2419	Northwest	B1	R24-19B1	R24-19B1.23-P-000x	12/31/2024	Cherry	\$405,000.00
2419	Northwest	B1	R24-19B1	R24-19B1.23-P-0004	3/30/2024	KWW JANEWAY EXTENSION	\$224,188.50
2419	Northwest	B1	R24-19B1	R24-19B1.23-P-0006	3/31/2023	KWW 18", 15" & 8" PVC Laurel St	\$1,327,382.25
2419	Northwest	B1	R24-19B1	R24-19B1.23-P-0003	5/31/2023	Janeway St	\$688,997.00
2419	Northwest	B1	R24-19B1	R24-19B1.24-P-0004	2/28/2023	KWW 10" and 8" PVC Pennsylvania - Phase 2	\$200,650.00
2435	Northwest	B1	R24-35B1	R24-35B1.24-P-0001	5/1/2024	4th Ave (Arthur to Ida)	\$144,000.00
2435	Northwest	B1	R24-35B1	R24-35B1.24-P-0002	5/1/2024	5th Ave (Arthur to Ida)	\$211,800.00
2435	Northwest	B1	R24-35B1	R24-35B1.24-P-0003	5/1/2024	6th Ave (Arthur to Mary)	\$264,600.00
2435	Northwest	B1	R24-35B1	R24-35B1.24-P-0004	5/1/2024	Arthur (5th to 6th Ave)	\$83,700.00
2435	Northwest	B1	R24-35B1	R24-35B1.24-P-0005	5/1/2024	6th Ave (Mount to beyond Richard)	\$329,100.00
2435	Northwest	B1	R24-35B1	R24-35B1.24-P-0006	5/1/2024	MPT62 TO END OF LINE	\$381,500.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-000x	5/1/2024	W WOOD TO S 2ND AVE	\$348,375.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-000x	5/1/2024	W WOOD TO S 2ND AVE	\$325,150.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-000x	5/1/2024	W WOOD TO S 2ND AVE	\$348,375.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-000x	5/1/2024	BAUER RD TO MCT124	\$287,350.00

2447	Northwest	B1	R24-47B1	R24-47B1.23-P-000x	5/1/2024	BOUCH LN TO SUMMER LN	\$528,000.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-000x	5/1/2024	BOUCH LN TO SUMMER LN	\$528,000.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0001	5/1/2024	Clarion Clipper Area	\$148,493.06
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0002	5/1/2024	Liberty St. (Easement)	\$322,532.00
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0003	5/1/2024	Reed St. to Chestnut St.	\$225,919.46
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0004	5/1/2024	Corbett St. (Easement)	\$451,661.31
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0006	5/1/2024	Grand Ave (Easement)	\$261,104.50
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0007	5/1/2024	Hotel Drive (Easement)	\$172,883.09
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0008	5/1/2024	George Rd to S 8th St	\$112,773.15
2447	Northwest	B1	R24-47B1	R24-47B1.23-P-0009	5/1/2024	Whitehall Place	\$73,820.27
2447	Northwest	B1	R24-47B1	R24-47B1.20-P-0003	5/1/2024	CWW 650' SWR CLARION FRUIT AREA E MAIN	\$313,843.90
2458	Northeast	B1	R24-58B1	R24-58B1.24-P-0002	10/31/2024	COUNTRY PLACE DR TO FAWN LANE	\$162,450.00
2458	Northeast	B1	R24-58B1	R24-58B1.24-P-0003	10/31/2024	COUNRTY PLACE DRIVE	\$57,750.00
2458	Northeast	B1	R24-58B1	R24-58B1.24-P-0004	10/31/2024	COUNTRY PLACE DRIVE TO (E) LIFT STATION	\$10,000.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0002	5/31/2024	Sandy Way from N. Sandy Hill Rd to dead end	\$344,643.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0003	5/31/2024	Grant Ave	\$73,815.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0004	5/31/2024	Lafayette from Holly Ave to Rainbow Rd	\$231,642.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0005	8/31/2024	Charles St. from Strode to Church St.	\$173,398.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0006	5/31/2024	Grove Ave from Beech St. to Kirby St.	\$51,765.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0007	5/31/2024	Kirby St. from MH MVT- 631 to S. Park Ave.	\$46,410.00
2467	Southeast	B1	R24-67B1	R24-67B1.24-P-0008	5/31/2024	Euclid & Gilbert from Green St. to end on main on Gilbert	\$47,355.00
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0005	8/31/2024	Center St, Dunmore (Smith St to Gilroy St) 1,010 of 8" Wastewater Main Repl	\$553,744.75
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0004	6/30/2024	Garwood Dr (from Penwood Dr to Park Dr) 915 ft of 8" Wastewater Main	\$524,376.04

2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0007	12/31/2023	Elmhurst Blvd Scranton (MSC-689 to Snook St) 15" Wastewater Main	\$223,214.37
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0008	12/31/2023	Elmhurst Blvd Scranton (Snook St to Leslie Dr) 15" Wastewater Main	\$465,953.39
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0009	5/31/2024	Dickson Ave Scranton (Electric to Green Ridge) 12" Wastewater	\$596,975.30
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0010	8/31/2024	N Lincoln Ave Scranton Easement (Crossin Ct to N Sumner) 30" Lining	\$670,800.00
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0011	6/30/2024	W Parker St Scranton (Hill St to MCS-6533) 12" Wastewater Main	\$627,706.51
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0012	11/30/2024	Sanders St Scranton (Pittston Ave to Birney Ave) 18" Wastewater Main	\$344,408.67
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0013	8/31/2024	Pen-Y-Bryn Dr (Rt307 to Eas. to Rt 307) 8" Lining	\$310,000.00
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0014	8/31/2024	Pen-Y-Bryn Dr (Rt 307 to Leslie Dr) 8" Lining Wastewater Main	\$115,400.00
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0015	8/31/2024	Pen-Y-Bryn Easement (Rt 307 to Leslie Dr) Lining 8" Wastewater Main	\$260,000.00
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0016	8/31/2024	Easement (Pen-Y-Bryn Dr and Elmhurst Blvd) Lining 8" Wastewater Main	\$94,200.00
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0003	7/31/2024	Aswell Ct, Scranton 10" (Fellows St to Luzerne St)	\$323,924.83
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0006	5/31/2024	Dunmore Cemetery, Dunmore (Forest Hill to S Blakley) 18" Wastewater Main	\$1,287,115.46
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0017	11/30/2024	S Main Ave Scranton 15" (Regan Pl to Eynon St)	\$688,395.79
2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0018	9/30/2024	N Main Ave Scranton 24" (Love Rd to Oak St)	\$64,403.06

2492	WBS_WW	B1	R24-92B1	R24-92B1.24-P-0002	11/30/2024	Pittston Ave Scranton 930 ft (Kane St to Sanders St)	\$929,357.88
2494	Central	B1	R24-94B1	R24-94B1.24-P-0001	11/30/2024	York Wastewater CIPP Project 1	\$1,095,000.00
2494	Central	B1	R24-94B1	R24-94B1.24-P-0002	11/30/2024	York Wastewater CIPP Project 2	\$1,080,000.00
2494	Central	B1	R24-94B1	R24-94B1.24-P-0003	11/30/2024	York Wastewater CIPP Project 3	\$1,065,000.00
2494	Central	B1	R24-94B1	R24-94B1.24-P-0004	11/30/2024	York Wastewater CIPP Project 4	\$915,000.00
2494	Central	B1	R24-94B1	R24-94B1.24-P-0005	11/30/2024	York Wastewater CIPP Project 5	\$840,000.00
2412	SW	C1	R24-12C1	R24-12C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$681,341.58
2413	SE	C1	R24-13C1	R24-13C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$103,211.17
2415	SE	C1	R24-15C1	R24-15C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$8,024.61
2417	SE	C1	R24-17C1	R24-17C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$16,049.22
2418	SE	C1	R24-18C1	R24-18C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$16,546.11
2419	NW	C1	R24-19C1	R24-19C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$72,221.49
2426	SW	C1	R24-26C1	R24-26C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$0.00
2432	NW	C1	R24-32C1	R24-32C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$0.00
2435	NW	C1	R24-35C1	R24-35C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$0.00
2436	NW	C1	R24-36C1	R24-36C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$0.00
2438	NW	C1	R24-38C1	R24-38C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$4,012.31
2447	NW	C1	R24-47C1	R24-47C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$10,431.99
2458	NE	C1	R24-58C1	R24-58C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$4,012.31
2460	Central	C1	R24-60C1	R24-60C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$52,159.97
2467	SE	C1	R24-67C1	R24-67C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$91,122.33

2469	NE	C1	R24-69C1	R24-69C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$22,413.18
2470	Central	C1	R24-70C1	R24-70C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$16,049.22
2483	Central	C1	R24-83C1	R24-83C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$16,049.22
2485	Central	C1	R24-85C1	R24-85C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$8,024.61
2487	Central	C1	R24-87C1	R24-87C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$44,135.36
2489	Central	C1	R24-89C1	R24-89C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$8,024.61
2492	WB/S	C1	R24-92C1	R24-92C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$2,057,783.46
2494	Central	C1	R24-94C1	R24-94C1.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$78,965.00
2467	SE	C2	R24-67C2	R24-67C2.24-P-0001	12/31/2024	Unscheduled Main Blanket	\$0.00
2443	Northwest	D1	R24-43D1	R24-43D1.23-P-0002	12/31/2024	SR 68 FROM DOLBY TO WATER RUN	\$916,560.00
2492	WBS WW	D1	R24-92D1	R24-92D1.24-P-000x	9/30/2024	E Elm St Scranton (CSO 026 Outfall Relocation)	\$135,660.00
2492	WBS WW	D1	R24-92D1	R24-92D1.24-P-000x	12/31/2024	N Main Ave Scranton (Watkins St to Marvine Ave)	\$100,320.00
2412	SW	F1	R24-12F1	R24-12F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$51,261.21
2413	SE	F1	R24-13F1	R24-13F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$256,306.04
2415	SE	F1	R24-15F1	R24-15F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$0.00
2417	SE	F1	R24-17F1	R24-17F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$25,630.60
2418	SE	F1	R24-18F1	R24-18F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$25,630.60
2419	NW	F1	R24-19F1	R24-19F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$448,535.57
2426	SW	F1	R24-26F1	R24-26F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$64,076.51
2432	NW	F1	R24-32F1	R24-32F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$0.00
2435	NW	F1	R24-35F1	R24-35F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$34,174.14
2436	NW	F1	R24-36F1	R24-36F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$0.00
2438	NW	F1	R24-38F1	R24-38F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$34,174.14
2447	NW	F1	R24-47F1	R24-47F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$102,522.42
2458	NE	F1	R24-58F1	R24-58F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$25,630.60
2460	Central	F1	R24-60F1	R24-60F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$25,630.60
2467	SE	F1	R24-67F1	R24-67F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$51,261.21
2469	NE	F1	R24-69F1	R24-69F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$0.00
2470	Central	F1	R24-70F1	R24-70F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$51,261.21
2483	Central	F1	R24-83F1	R24-83F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$12,815.30

2485	Central	F1	R24-85F1	R24-85F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$0.00
2487	Central	F1	R24-87F1	R24-87F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$25,630.60
2489	Central	F1	R24-89F1	R24-89F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$34,174.14
2492	WB/S	F1	R24-92F1	R24-92F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$1,879,577.64
2494	Central	F1	R24-94F1	R24-94F1.24-P-0001	12/31/2024	Valves Replace Blanket	\$25,630.60
2412	SW	H1	R24-12H1	R24-12H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$0.00
2413	SE	H1	R24-13H1	R24-13H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$189,489.62
2415	SE	H1	R24-15H1	R24-15H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$11,722.32
2417	SE	H1	R24-17H1	R24-17H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$100,531.71
2418	SE	H1	R24-18H1	R24-18H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$100,477.02
2419	NW	H1	R24-19H1	R24-19H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$194,318.62
2426	SW	H1	R24-26H1	R24-26H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$53,587.74
2432	NW	H1	R24-32H1	R24-32H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$0.00
2435	NW	H1	R24-35H1	R24-35H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$41,865.42
2436	NW	H1	R24-36H1	R24-36H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$0.00
2438	NW	H1	R24-38H1	R24-38H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$41,865.42
2447	NW	H1	R24-47H1	R24-47H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$83,952.08
2458	NE	H1	R24-58H1	R24-58H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$46,959.84
2460	Central	H1	R24-60H1	R24-60H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$41,865.42
2467	SE	H1	R24-67H1	R24-67H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$186,329.82
2469	NE	H1	R24-69H1	R24-69H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$366,229.40
2470	Central	H1	R24-70H1	R24-70H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$33,492.34
2483	Central	H1	R24-83H1	R24-83H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$12,559.63
2485	Central	H1	R24-85H1	R24-85H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$8,373.08

2487	Central	H1	R24-87H1	R24-87H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$46,576.89
2489	Central	H1	R24-89H1	R24-89H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$8,373.08
2492	WB/S	H1	R24-92H1	R24-92H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$2,362,776.27
2494	Central	H1	R24-94H1	R24-94H1.24-P-0001	12/31/2024	Lateral Replaced Blanket	\$88,226.04

Summary:

PAWC's AAO Plan demonstrates that PAWC has accelerated DSIC-eligible wastewater capital investment and the actual 4-year average expenditures have exceeded planned budgetary levels included in the LTIP, primarily due to an increased level of investment and higher material and restoration costs.

The projected 2024 wastewater replacement and rehabilitation program on Table 10 of this AAO Plan is consistent with year 2024 of the current approved LTIP for the wastewater operations covered under this AAO Plan. The elevated investment in 2023 and 2024 is a result of including newer acquisitions in the projected plan along with the higher material costs, higher restoration costs and additional work due to poor infrastructure condition that has been discovered in the newer acquisitions.

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

2023 Wastewater Annual Asset
Optimization Plan

: Docket No. M-2024-_____
:

CERTIFICATE OF SERVICE

I hereby certify that I have on this day served a true and correct copy of Pennsylvania-American Water Company's 2023 Wastewater Annual Asset Optimization Plan upon the participants listed below, in the manner indicated, in accordance with the requirements of 52 Pa. Code § 1.54:

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Dated: February 29, 2024