



VIA E-FILING

March 2, 2026

Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
400 North Street
Keystone Building
Harrisburg, PA 17120


**Re: Aqua Pennsylvania Wastewater, Inc.
Annual Asset Optimization Plan
Docket No. M-2026-_____**

Dear Secretary Chiavetta:

Enclosed please find Aqua Pennsylvania Wastewater, Inc.'s ("Aqua") Annual Asset Optimization Plan ("AAOP") for its Long-Term Infrastructure Improvement Plan approved in Docket No. P-2024-3052037. This AAOP provides information on the twelve-month period ended December 31, 2025, and projections for the upcoming twelve-month period ending December 31, 2026.

If you have any questions regarding this filing, please contact me at 610-645-1130 or by email at astahl@aquaamerica.com.

Sincerely,


Alexander R. Stahl
Regulatory Counsel

cc: Certificate of Service
Ken Shaffer, Bureau of Technical Utility Services (via email, kennshaffe@pa.gov)

Enclosure

Aqua Pennsylvania Wastewater, Inc.

Annual Asset Optimization Plan

Year Ended December 31, 2025



AQUA PENNSYLVANIA WASTEWATER, INC.
ANNUAL ASSET OPTIMIZATION PLAN – YEAR ENDED DECEMBER 31, 2025

Aqua Pennsylvania Wastewater, Inc. (“APW” or the “Company”) files this Annual Asset Optimization Plan (“AAOP”) in compliance with Section 1356 of the Public Utility Code, 66 Pa. C.S. § 1356. Section 1356 of the Public Utility Code requires a utility with an approved distribution system improvement charge (“DSIC”) and Long-Term Infrastructure Improvement Plan (“LTIIIP”) to file an AAOP. APW has an approved DSIC and LTIIIP (Docket No. P-2019-3013941).¹ The required elements of the AAOP are as follows:

1. A description that specifies all eligible property repaired, improved, and replaced in the immediately preceding 12-month period pursuant to the utility’s LTIIIP and prior year’s AAOP; and
2. A detailed description of all the facilities to be improved in the upcoming 12-month period.

Organization

The Company has been organized into two operating groups within Pennsylvania, Southeastern Pennsylvania (“SEPA”) and Greater Pennsylvania (“GPA”).

- The GPA operating division serves approximately 11,319 customers in Adams, Carbon, Clarion, Clearfield, Lackawanna, Luzerne, Monroe, Pike, Schuylkill, Venango, and Wyoming counties. The GPA operating division collection and conveyance systems include approximately 344 miles of pipe, approximately 3,345 manholes, and 78 pump stations.
- The SEPA operating division serves approximately 47,179 customers in Bucks, Chester, Delaware, and Montgomery counties. The SEPA operating

¹ APW has filed a Modified Third LTIIIP which is currently under review with the Commission. See *Petition of Aqua Pennsylvania Wastewater, Inc. For Approval of its Modified Third Long-Term Infrastructure Improvement Plan*, Docket No. P-2024-3052037 (January 20, 2026) (“Modified Third LTIIIP”). The information in this AAOP reflects systems included in APW’s approved Third LTIIIP and not systems that were added in the Modified Third LTIIIP.

division collection and conveyance systems include approximately 616 miles of pipe, 14,144 manholes, and 94 pump stations.

In the Pennsylvania Public Utility Commission’s (“PUC” or the “Commission”) approval of APW’s Second Revised LTIP² for years 2020-2024, the Commission required the Company to include updated information on the Company’s pipe materials and diameters. **Table 1** through **Table 5** below provides an update to the pipe material and diameter for APW’s systems.

Table 1 – Pipe Type and Quantity by Region

Type	Length (feet)	Percent of Total
SEPA Operating Division		
Gravity	2,792,269	85.9%
Force Main	290,697	8.9%
Low Pressure	54,999	1.7%
Interceptor	112,756	3.5%
Total	3,250,721	100%
GPA Operating Division		
Gravity	736,791	40.6%
Force Main	113,391	6.3%
Low Pressure	964,139	53.1%
Total	1,814,321	100%
Total All Operating Divisions		
Gravity	3,529,060	69.7%
Force Main	404,088	8.0%
Low Pressure	1,019,138	20.1%
Interceptor	112,756	2.2%
Total	5,065,042	100%

² Petition of Aqua Pennsylvania Wastewater, Inc. for Approval of its Revised Long-Term Infrastructure Improvement Plan, Docket No. P-2019-3013941, Opinion and Order Entered February 27, 2020.

Table 2 – Pipe Material by Region

Type	Length (feet)	Percent of Total
SEPA Operating Division		
Asbestos Cement (“AC”)	9,920	0.3%
Cast Iron (“CI”)	38,122	1.2%
Ductile Iron (“DI”)	39,920	1.2%
Galvanized (“G”)	203	0.0%
HD Polyethylene (“HDPE”)	18,628	0.6%
Permastrand (“P-S”)	1,100	0.0%
Polyvinyl Chloride (“PVC”)	629,707	19.4%
Steel (“S”)	50	0.0%
Terra Cotta (“TC”)	97,846	3.0%
Unknown	2,038,965	62.7%
Total	3,250,721	100%
GPA Operating Division		
Asbestos Cement (“AC”)	22,601	1.2%
Cement (“CEM”)	29,986	1.7%
Cast Iron (“CI”)	6,186	0.3%
Ductile Iron (“DI”)	1,380	0.1%
HD Polyethylene (“HDPE”)	4,838	0.3%
Polyvinyl Chloride (“PVC”)	1,292,287	71.2%
Reinforced Concrete (“RCP”)	495	0.0%
Truss (“TRS”)	77,268	4.3%
Vitrified Clay (“VCP”)	58,689	3.2%
Unknown	325,591	17.7%
Total	1,814,321	100%
Total All Operating Divisions		
Asbestos Cement (“AC”)	32,521	0.6%
Cement (“CEM”)	29,986	0.6%
Cast Iron (“CI”)	44,308	0.9%
Ductile Iron (“DI”)	41,300	0.8%
Galvanized (“G”)	203	0.0%
HD Polyethylene (“HDPE”)	23,466	0.5%
Permastrand (“P-S”)	1,100	0.0%

Type	Length (feet)	Percent of Total
Polyvinyl Chloride ("PVC")	1,921,994	38.1%
Reinforced Concrete ("RCP")	6,583	0.1%
Truss ("TRS")	77,268	1.5%
Steel ("S")	50	0.0%
Terra Cotta ("TC")	97,846	1.9%
Vitrified Clay ("VCP")	428,861	8.5%
Unknown	2,359,556	46.8%
Total	5,065,042	100%

Table 3 – Pipe Diameter for SEPA Operating Division

Type	Diameter	Length (Feet)	Percent of Total	
Gravity	1.5"	27	0.0%	
	2"	622	0.0%	
	3"	333	0.0%	
	4"	392	0.0%	
	6"	21,055	0.8%	
	8"	1,167,825	41.8%	
	10"	53,810	1.9%	
	11"	195	0.0%	
	12"	50,225	1.8%	
	14"	68	0.0%	
	15"	21,155	0.8%	
	18"	8,867	0.3%	
	21"	2,597	0.1%	
	30"	7,384	0.3%	
	36"	355	0.0%	
	Unknown	1,457,359	52.2%	
	Total	2,792,269	100%	
Low Pressure	1.25"	583	01.1%	
	1.5"	3,248	5.9%	
	2"	26,567	48.3%	
	2.5"	1,075	2.0%	
	3"	10,719	19.5%	
	4"	1,963	3.6%	
		Unknown	10,844	19.7%
		Total	54,999	100%

Force Main	1.25"	31	0.0%
	1.5"	435	0.1%
	2"	28,117	9.7%
	2.5"	2,974	1.0%
	3"	13,682	4.7%
	4"	48,579	16.7%
	6"	36,309	11.1%
	8"	32,309	11.1%
	10"	5,458	1.9%
	12"	22,040	7.6%
	16"	3,817	1.3%
	Unknown	96,776	33.3%
	Total	290,697	100%
Interceptor	8"	7,740	6.6%
	10"	16,217	14.4%
	12"	22,015	19.5%
	15"	6,394	5.7%
	16"	1,600	1.4%
	18"	6,369	5.6%
	21"	4,843	4.3%
	22"	142	0.1%
	24"	1,028	0.9%
	27"	26	0.0%
	30"	539	0.5%
	33"	6,995	6.2%
	Unknown	39,118	34.7%
	Total	112,756	100%
All	Total	3,250,721	

Table 4 – Pipe Diameter for GPA Operating Division

Type	Diameter	Length (Feet)	Percent of Total
Gravity	2"	444	0.0%
	4"	3,438	0.5%
	6"	18,444	2.5%
	8"	580,876	78.8%
	10"	43,628	5.9%
	12"	30,510	4.1%
	15"	32,778	4.5%
	18"	17,288	2.4%

	21"	496	0.1%
	24"	3,911	0.5%
	Unknown	4,978	0.7%
	Total	736,791	100%
Low Pressure	0.5"	366	0.0%
	1"	276	0.0%
	1.25"	7,569	0.8%
	1.5"	25,830	2.7%
	2"	131,446	13.6%
	2.5"	67,207	7.0%
	3"	170,113	17.6%
	4"	388,368	40.3%
	6"	36,828	3.8%
	8"	859	0.1%
	Unknown	135,277	14.0%
	Total	964,139	100%
Force Main	2"	3,849	3.4%
	3"	1,470	1.3%
	4"	42,378	37.4%
	6"	32,451	28.6%
	8"	6,824	6.0%
	10"	2,642	2.3%
	Unknown	23,777	21.0%
	Total	113,391	100%
All	Total	1,814,321	

Table 5 – Total Pipe Diameter for All Operating Divisions

Type	Diameter	Length (Feet)	Percent of Total
Gravity	1.5"	27	0.0%
	2"	1066	0.0%
	3"	333	0.0%
	4"	3,830	0.1%
	6"	22,81039,499	1.1%
	8"	1,748,701	49.6%
	10"	97,438	2.8%
	11"	195	0.0%
	12"	80,735	2.3%
	14"	68	0.0%

	15"	53,933	1.5%
	18"	26,155	0.7%
	21"	3,9573,093	0.1%
	24"	3,911	0.1%
	30"	7,384	0.2%
	36"	355	0.0%
	Unknown	1,457,359	41.4%
	Total	3,529,060	100%
Low Pressure	0.5"	366	0.0%
	1"	276	0.0%
	1.25"	8,152	0.8%
	1.5"	29,078	2.9%
	2"	158,013	15.5%
	2.5"	68,282	6.7%
	3"	180,832	17.7%
	4"	390,331	38.3%
	6"	36,828	3.6%
	8"	859	0.1%
	Unknown	146,121	14.3%
	Total	1,019,138	100%
Force Main	1.25"	31	0.0%
	1.5"	435	0.1%
	2"	31,966	7.9%
	2.5"	2,974	0.7%
	3"	15,152	3.7%
	4"	90,957	22.5%
	6"	68,930	17.1%
	8"	139,133	9.7%
	10"	8,100	2.0%
	12"	22,040	5.5%
	16"	3,817	0.9%
	Unknown	120,553	29.8%
	Total	404,088	100%
Interceptor	8"	7,740	6.6%
	10"	16,217	14.4%
	12"	22,015	19.5%
	15"	6,394	5.7%
	16"	1,600	1.4%
	18"	6,369	5.6%
	21"	4,843	4.3%

	22"	142	0.1%
	24"	1,028	0.9%
	27"	26	0.0%
	30"	539	0.5%
	33"	6,995	6.2%
	Unknown	39,118	34.7%
	Total	112,756	100%
All	Total	5,065,042	

Description of all eligible property repaired, improved, and replaced in the immediately preceding 12-month period.

Table 6 below shows the projected amounts included in the Company's LTIP for Calendar Year Ended December 31, 2025.

Table 6

Division	Mains	Manholes	Pump Stations	Total
GPA	\$3,506,900	\$35,000	\$1,050,000	\$4,591,900
SEPA	\$4,261,816	\$217,000	\$1,743,000	\$6,221,816
Total	\$7,768,716	\$252,000	\$2,793,000	\$10,813,716

Table 7 below summarizes actual spending on projects to refurbish or improve pump stations, manholes and sewer mains during Calendar Year Ended December 31, 2025.

Table 7

Division	Mains	Manholes	Pump Stations	Clean & Televis	Engineering Studies	Total
GPA	\$2,736,779	\$842,759	\$4,997,506	\$0	\$70,655	\$8,647,699
SEPA	\$6,636,978	\$247,500	\$1,870,787	\$1,009,368	\$0	\$9,764,902
Total	\$9,373,756	\$1,090,259	\$6,868,293	\$1,009,368	\$70,655	\$18,412,601

Table 8 below shows the projected quantities of property that were included in the Company's 2024 AAOP for 2025 quantities to be improved or replaced.

Table 8

Division	Mains (LF)	Mains (LF) CCTV	Manholes (each)	Pump Stations
GPA	15,363	0	5	24
SEPA	20,930	0	17	18
Total	36,293	0	22	42

Table 9 below shows the actual quantities of property installed for Calendar Year Ended December 31, 2025.

Table 9

Division	Mains (LF)	Mains (LF) CCTV	Manholes (each)	Pump Stations
GPA	20,760	0	164	41
SEPA	62,170	458,855	33	45
Total	82,931	0	197	86

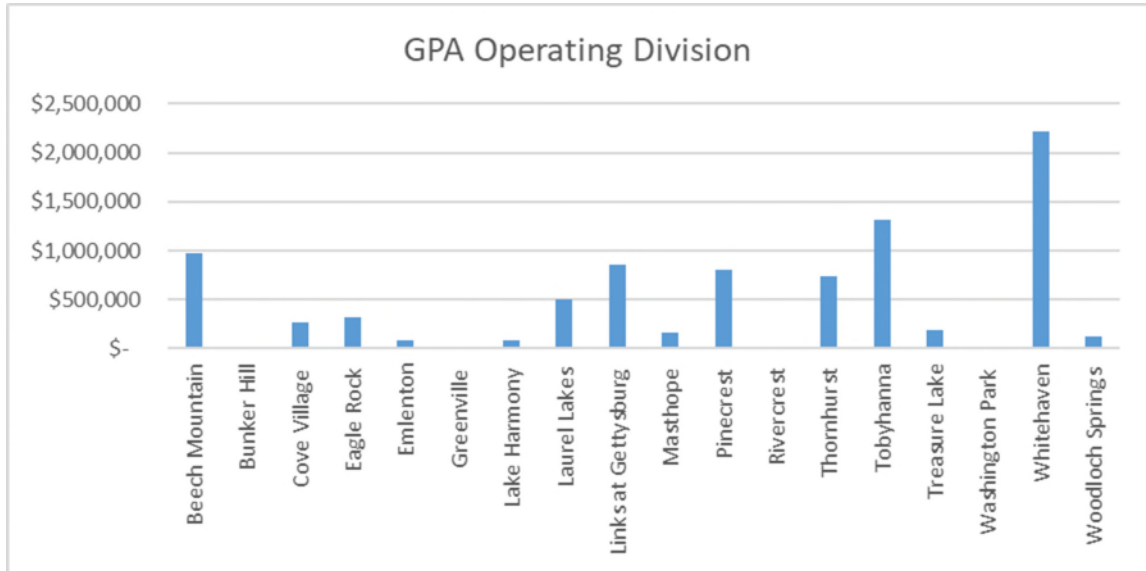
As part of the Revised LTIP, the Commission required that the Company report on the amounts of mains replaced vs. mains lined. **Table 10** below shows the breakdown between mains that were replaced and mains that were lined.

Table 10

Division	Mains Replaced (LF)	Mains Lined (LF)	Total (LF)
GPA	20,760	0	20,760
SEPA	9,691	52,479	62,170
Total	30,452	52,479	82,931

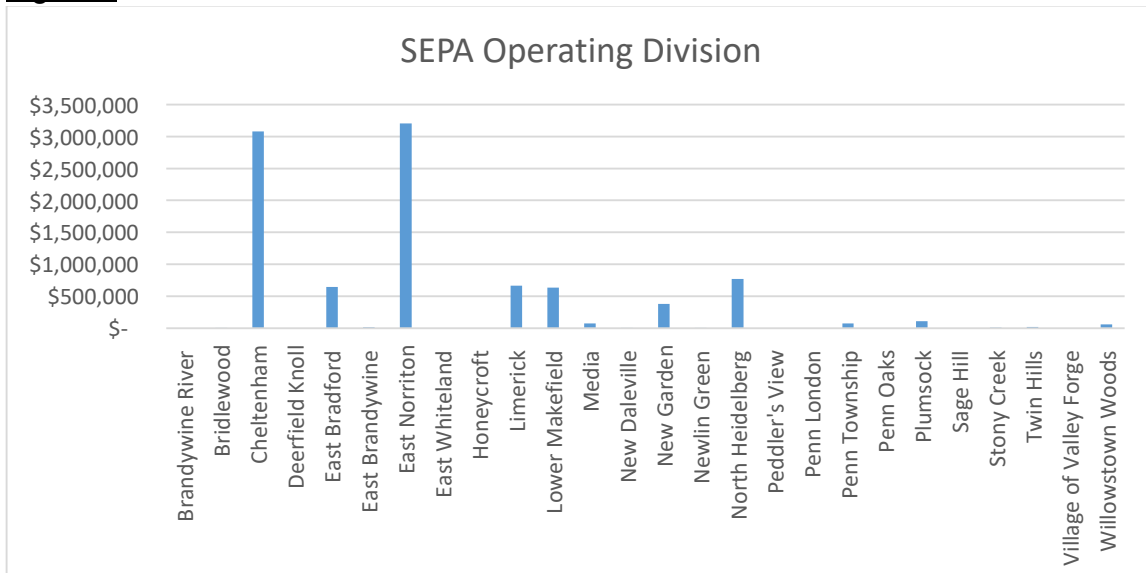
The projects within the GPA Operating Division consisted mainly of replacing failed sewer laterals, sewer main repair work, manhole repair, and a mixture of pump station repair. **Figure 1** below lists funds spent on the GPA collection system projects by system.

Figure 1



The projects within the Southeast Operating Division consisted mainly of force main sewer repairs, manhole rehabilitation, and pump station repairs. **Figure 2** below depicts funds spent on collection system work by system.

Figure 2



Property Repaired, Improved and Replaced During the Preceding Twelve Months

Table 11 and **Table 12** below lists expenditures of all eligible collection system work in the last twelve months by category of work and system.

Table 11

GPA Operating Division						
System	Project Description	Mains	Manholes	Pump Stations	CCTV	Grand Total
Beech Mountain	Force Main Repairs	\$9,329	\$0	\$0	\$0	\$9,329
Beech Mountain	LPSS ARV Repairs	\$896,875	\$0	\$0	\$0	\$896,875
Beech Mountain	Lateral Repairs	\$66,826	\$0	\$0	\$0	\$66,826
Bunker Hill	Collection System Repairs	\$4,647	\$0	\$0	\$0	\$4,647
Bunker Hill	Pump Station Repairs	\$0	\$0	\$582	\$0	\$582
Bunker Hill	Pump Station Repairs	\$0	\$0	\$2,371	\$0	\$2,371
Cove Village	Pump Station Repairs - Ballpark	\$0	\$0	\$125,002	\$0	\$125,002
Cove Village	Pump Station Repairs - Princess	\$0	\$0	\$74,471	\$0	\$74,471
Cove Village	Pump Station Repairs - Alpine	\$0	\$0	\$69,509	\$0	\$69,509
Eagle Rock	Force Main Repairs	\$35,446	\$0	\$0	\$0	\$35,446
Eagle Rock	LPSS ARV Repairs	\$42,789	\$0	\$0	\$0	\$42,789
Eagle Rock	Collection System Repairs	\$21,763	\$0	\$0	\$0	\$21,763
Eagle Rock	Manhole Rehabilitation	\$0	\$448	\$0	\$0	\$448
Eagle Rock	Collection System Repairs	\$20,280	\$0	\$0	\$0	\$20,280
Eagle Rock	Collection System Repairs	\$2,025	\$0	\$0	\$0	\$2,025
Eagle Rock	Pump Station Repairs	\$0	\$0	\$117,925	\$0	\$117,925

Eagle Rock	Act 537 Planning	\$16,836	\$0	\$0	\$0	\$16,836
Eagle Rock	Pump Station Repairs	\$0	\$0	\$55,519	\$0	\$55,519
Emlenton	Manhole Rehabilitation	\$0	\$25,883	\$0	\$0	\$25,883
Emlenton	Manhole Rehabilitation	\$0	\$25,676	\$0	\$0	\$25,676
Emlenton	Collection System Repairs	\$18,574	\$0	\$0	\$0	\$18,574
Emlenton	Collection System Repairs	\$7,825	\$0	\$0	\$0	\$7,825
Emlenton	Lateral Repairs	\$8,632	\$0	\$0	\$0	\$8,632
Emlenton	Pump Station Repairs	\$0	\$0	\$3,097	\$0	\$3,097
Kidder Twp – Lake Harmony	Collection System Repairs	\$5,984	\$0	\$0	\$0	\$5,984
Kidder Twp – Lake Harmony	Lateral Repairs	\$36,511	\$0	\$0	\$0	\$36,511
Kidder Twp – Lake Harmony	Pump Station Repairs	\$0	\$0	\$34,520	\$0	\$34,520
Kidder Twp – Lake Harmony	Pump Station Repairs	\$0	\$0	\$4,642	\$0	\$4,642
Laurel Lakes	Force Main Repairs	\$134,177	\$0	\$0	\$0	\$134,177
Laurel Lakes	Collection System Repairs	\$316,173	\$7,500	\$0	\$0	\$323,673
Laurel Lakes	Collection System Repairs	\$2,512	\$0	\$0	\$0	\$2,512
Laurel Lakes	Lateral Repairs	\$36,950	\$0	\$0	\$0	\$36,950
Laurel Lakes	Pump Station Repairs	\$0	\$0	\$473	\$0	\$473
Links of Gettysburg	Pump Station Repairs – Lousy Run	\$0	\$0	\$753,693	\$0	\$753,693
Links of Gettysburg	Pump Station Repairs	\$0	\$0	\$1,770	\$0	\$1,770

Links of Gettysburg	Lateral Repairs	\$47,697	\$0	\$0	\$0	\$47,697
Links of Gettysburg	Pump Station Audit	\$0	\$0	\$49,932	\$0	\$49,932
Masthope	Force Main Repairs	\$14,115	\$0	\$0	\$0	\$14,115
Masthope	Collection System Repairs	\$17,486	\$0	\$0	\$0	\$17,486
Masthope	Pump Station Repairs	\$0	\$0	\$65,541	\$0	\$65,541
Masthope	Lateral Repairs	\$35,899	\$0	\$0	\$0	\$35,899
Masthope	Pump Station Repairs	\$0	\$0	\$19,503	\$0	\$19,503
Masthope	Pump Station Repairs	\$0	\$0	\$11,456	\$0	\$11,456
Masthope	Pump Station Repairs	\$0	\$0	\$2,809	\$0	\$2,809
Pinecrest	Collection System Repairs	\$6,175	\$0	\$0	\$0	\$6,175
Pinecrest	Pump Station Repairs	\$0	\$0	\$18,817	\$0	\$18,817
Pinecrest	Pump Station Repairs	\$0	\$0	\$8,899	\$0	\$8,899
Pinecrest	Pump Station Repairs - Oneida	\$0	\$0	\$240,727	\$0	\$240,727
Pinecrest	Pump Station Repairs – Wood Lane	\$0	\$0	\$120,870	\$0	\$120,870
Pinecrest	Pump Station Repairs – Wood Lane	\$0	\$0	\$120,679	\$0	\$120,679
Pinecrest	Pump Station Repairs – Pine Crest Lake	\$0	\$0	\$115,868	\$0	\$115,868
Pinecrest	Pump Station Repairs – Pine Crest	\$0	\$0	\$94,777	\$0	\$94,777
Pinecrest	Pump Station Repairs – Crest Pines	\$0	\$0	\$63,346	\$0	\$63,346
Pinecrest	Pump Station Repairs	\$0	\$0	\$16,061	\$0	\$16,061
Thornhurst	Collection System Repairs	\$44,792	\$0	\$0	\$0	\$44,792
Thornhurst	Collection System Repairs	\$581,138	\$105,000	\$0	\$0	\$686,138

Thornhurst	Lateral Repairs	\$7,448	\$0	\$0	\$0	\$7,448
Tobyhanna	MH Rehab Ph 4	\$0	\$325,536	\$0	\$0	\$325,536
Tobyhanna	Collection System Repairs	\$4,275	\$0	\$0	\$0	\$4,275
Tobyhanna	Collection System Repairs	\$4,948	\$0	\$0	\$0	\$4,948
Tobyhanna	Pump Station Repairs – Lady Jennifer	\$0	\$0	\$488,744	\$0	\$488,744
Tobyhanna	Pump Station Repairs – New Ventures	\$0	\$0	\$456,697	\$0	\$456,697
Tobyhanna	Pump Station Repairs	\$0	\$0	\$3,448	\$0	\$3,448
Tobyhanna	Lateral Repairs	\$18,953	\$0	\$0	\$0	\$18,953
Tobyhanna	Pump Station Repairs	\$0	\$0	\$14,330	\$0	\$14,330
Treasure Lake	Force Main Repairs	\$13,510	\$0	\$0	\$0	\$13,510
Treasure Lake	Manhole Rehabilitation	\$0	\$33,716	\$0	\$0	\$33,716
Treasure Lake	Manhole Rehabilitation	\$0	\$33,185	\$0	\$0	\$33,185
Treasure Lake	Collection System Repairs	\$20,012	\$0	\$0	\$0	\$20,012
Treasure Lake	Pump Station Repairs	\$0	\$0	\$5,927	\$0	\$5,927
Treasure Lake	Lateral Repairs	\$43,017	\$0	\$0	\$0	\$43,017
Treasure Lake	Pump Station Repairs	\$0	\$0	\$31,925	\$0	\$31,925
Treasure Lake	Pump Station Repairs	\$0	\$0	\$22,127	\$0	\$22,127
Treasure Lake	Pump Station Repairs	\$0	\$0	(\$4,407)	\$0	(\$4,407)
Treasure Lake	Pump Station Repairs	\$0	\$0	(\$5,839)	\$0	(\$5,839)
White Haven	Manhole Rehabilitation	\$0	\$248,316	\$0	\$0	\$248,316
White Haven	Collection System Repairs	\$161,829	\$37,500	\$0	\$0	\$199,329

White Haven	Collection System Repairs	\$12,637	\$0	\$0	\$0	\$12,637
White Haven	Pump Station Repairs – Middleburg Road	\$0	\$0	\$619,807	\$0	\$619,807
White Haven	Pump Station Repairs - Blue Ridge	\$0	\$0	\$435,443	\$0	\$435,443
White Haven	Pump Station Repairs – Powerhouse	\$0	\$0	\$423,065	\$0	\$423,065
White Haven	Pump Station Repairs - Woodland	\$0	\$0	\$59,709	\$0	\$59,709
White Haven	Pump Station Repairs – Stoney Mountain	\$0	\$0	\$54,416	\$0	\$54,416
White Haven	Pump Station Repairs – Appalachian #1	\$0	\$0	\$48,060	\$0	\$48,060
White Haven	Pump Station Repairs – Appalachian #2	\$0	\$0	\$43,390	\$0	\$43,390
White Haven	Pump Station Repairs	\$0	\$0	\$33,102	\$0	\$33,102
White Haven	Pump Station Repairs	\$0	\$0	\$8,225	\$0	\$8,225
White Haven	Pump Station Repairs	\$0	\$0	\$26,994	\$0	\$26,994
White Haven	Pump Station Assessment	\$0	\$0	\$3,887	\$0	\$3,887
Woodloch Springs	Force Main Repairs	\$15,383	\$0	\$0	\$0	\$15,383
Woodloch Springs	Collection System Repairs	\$14,158	\$0	\$0	\$0	\$14,158
Woodloch Springs	Lateral Repairs	\$5,990	\$0	\$0	\$0	\$5,990
Woodloch Springs	Pump Station Repairs	\$0	\$0	\$75,893	\$0	\$75,893
Woodloch Springs	Pump Station Repairs	\$0	\$0	\$13,521	\$0	\$13,521
Total	GPA Systems	\$2,753,616	\$842,760	\$5,051,323	\$0	\$8,647,699

Table 12

SEPA Operating Division						
System	Project Description	Mains	Manholes	Pump Stations	CCTV	Grand Total
Bridlewood	Pump Station Repairs	\$0	\$0	\$3,021	\$0	\$3,021
Cheltenham	Collection System Repairs	\$1,782,889	\$0	\$0	\$0	\$1,782,889
Cheltenham	Collection System Repairs	\$327,524	\$0	\$0	\$0	\$327,524
Cheltenham	Collection System Repairs	\$11,531	\$0	\$0	\$0	\$11,531
Cheltenham	Collection System Repairs	\$1,307	\$0	\$0	\$0	\$1,307
Cheltenham	Collection System Repairs	(\$31,832)	\$0	\$0	\$0	(\$31,832)
Cheltenham	Collection System Repairs	\$12,193	\$0	\$0	\$0	\$12,193
Cheltenham	Collection System Repairs	\$5,907	\$0	\$0	\$0	\$5,907
Cheltenham	Collection System Repairs	(\$1,129)	\$0	\$0	\$0	(\$1,129)
Cheltenham	Collection System Investigation - CCTV	\$0	\$0	\$0	\$943,085	\$943,085
Cheltenham	Lateral Repairs	\$29,757	\$0	\$0	\$0	\$29,757
East Bradford	Pump Station Repairs	\$0	\$0	\$2,906	\$0	\$2,906
East Bradford	Pump Station Repairs – Wither Way	\$0	\$0	\$48,636	\$0	\$48,636
East Bradford	Pump Station Repairs – Ridge Haven	\$0	\$0	\$48,633	\$0	\$48,633
East Bradford	Pump Station Repairs	\$0	\$0	\$25	\$0	\$25
East Bradford	Pump Station Repairs	\$0	\$0	\$100,786	\$0	\$100,786
East Bradford	Pump Station Repairs	\$0	\$0	\$13,606	\$0	\$13,606
East Bradford	Pump Station Repairs	(\$3,431)	\$0	\$0	\$0	(\$3,431)

East Bradford	Pump Station Repairs	\$0	\$0	\$9,379	\$0	\$9,379
East Bradford	Pump Station Repairs	\$0	\$0	\$356,633	\$0	\$356,633
East Bradford	Pump Station Repairs	\$0	\$0	\$61,100	\$0	\$61,100
East Bradford	Pump Station Repairs	\$0	\$0	\$5,215	\$0	\$5,215
East Brandywine / Little Washington	Collection System Repairs	\$17,195	\$0	\$0	\$0	\$17,195
East Norriton	Collection System Repairs	\$2,622,007	\$0	\$0	\$0	\$2,622,007
East Norriton	Collection System Repairs	\$38,280	\$0	\$0	\$0	\$38,280
East Norriton	Collection System Repairs	\$39,504	\$0	\$0	\$0	\$39,504
East Norriton	Collection System Repairs	\$6,052	\$0	\$0	\$0	\$6,052
East Norriton	Pump Station Repairs	\$0	\$0	\$82,946	\$0	\$82,946
East Norriton	Collection System Relocation	\$159,315	\$37,500	\$0	\$0	\$196,815
East Norriton	Lateral Repairs	\$7,228	\$0	\$0	\$0	\$7,228
East Norriton	Pump Station Repairs – Norris City SCADA	\$0	\$0	\$20,748	\$0	\$20,748
East Norriton	Pump Station Upgrade – Germantown	\$0	\$0	\$146,247	\$0	\$146,247
East Norriton	Pump Station Repairs	\$0	\$0	\$48,805	\$0	\$48,805
Limerick	Collection System Repairs	\$3,299	\$0	\$0	\$0	\$3,299
Limerick	Collection System Repairs	\$107,025	\$0	\$0	\$0	\$107,025
Limerick	Collection System Repairs	\$325,665	\$60,000	\$0	\$0	\$385,665
Limerick	Pump Station Repairs	\$0	\$0	\$4,300	\$0	\$4,300
Limerick	Collection System Investigation	\$0	\$0	\$0	\$66,553	\$66,553

Limerick	Collection System Relocation	\$(207)	\$0	\$0	\$0	\$(207)
Limerick	Pump Station Repairs	\$0	\$0	\$2,748	\$0	\$2,748
Limerick	Pump Station Repairs	\$0	\$0	\$60,486	\$0	\$60,486
Limerick	Pump Station Repairs	\$0	\$0	\$(8,442)	\$0	\$(8,442)
Limerick	Pump Station Repairs	\$0	\$0	\$45,080	\$0	\$45,080
Lower Makefield	Collection System Repairs	\$175,242	\$0	\$0	\$0	\$175,242
Lower Makefield	Collection System Repairs – Mapleville	\$143,478	\$30,000	\$0	\$0	\$173,479
Lower Makefield	Collection System Repairs – Silver Lake	\$42,762	\$15,000	\$0	\$0	\$57,762
Lower Makefield	Collection System Repairs	\$29,289	\$0	\$0	\$0	\$29,289
Lower Makefield	Collection System Repairs	\$31,100	\$0	\$0	\$0	\$31,100
Lower Makefield	Collection System Repairs	\$9,836	\$0	\$0	\$0	\$9,836
Lower Makefield	Pump Station Repairs	\$0	\$0	\$104,042	\$0	\$104,042
Lower Makefield	Pump Station Repairs – Black Rock	\$0	\$0	\$6,387	\$0	\$6,387
Lower Makefield	Pump Station Repairs - Brookstone	\$0	\$0	\$874	\$0	\$874
Lower Makefield	Pump Station Repairs	\$0	\$0	\$2,826	\$0	\$2,826
Lower Makefield	Pump Station Repairs - Clearview	\$0	\$0	\$22,651	\$0	\$22,651
Lower Makefield	Pump Station Repairs - Farmview	\$0	\$0	\$22,637	\$0	\$22,637
Media	Collection System Repairs	\$29,250	\$0	\$0	\$0	\$29,250
Media	Collection System Repairs	\$11,730	\$0	\$0	\$0	\$11,730
Media	Collection System Repairs	\$6,628	\$0	\$0	\$0	\$6,628

Media	Lateral Repairs	\$10,687	\$0	\$0	\$0	\$10,687
Media	Pump Station Repairs	\$0	\$0	\$12,491	\$0	\$12,491
Media	Pump Station Repairs	\$0	\$0	\$6,161	\$0	\$6,161
Daleville	Pump Station Repairs	\$0	\$0	\$2,582	\$0	\$2,582
New Garden	Collection System Repairs – Rte 41	\$83,282	\$0	\$0	\$0	\$83,282
New Garden	Collection System Repairs	\$42,866	\$0	\$0	\$0	\$42,866
New Garden	Pump Station Repairs	\$0	\$0	\$3,202	\$0	\$3,202
New Garden	Pump Station Repairs	\$0	\$0	\$(1,612)	\$0	\$(1,612)
New Garden	Pump Station Repairs – H4	\$0	\$0	\$161,762	\$0	\$161,762
New Garden	Pump Station Repairs - Bucktoe	\$0	\$0	\$60,343	\$0	\$60,343
New Garden	Pump Station Repairs	\$0	\$0	\$17,037	\$0	\$17,037
New Garden	Pump Station Repairs – Main	\$0	\$0	\$9,964	\$0	\$9,964
New Garden	Pump Station Repairs	\$0	\$0	\$3,857	\$0	\$3,857
Newline Greene	Pump Station Repairs	\$0	\$0	\$4,281	\$0	\$4,281
North Heidelberg	Collection System Repairs – North Heidelberg Collection System	\$557,959	\$105,000	\$0	\$0	\$662,960
North Heidelberg	Pump Station Repairs – Ground Zero	\$0	\$0	\$97,918	\$0	\$97,918
North Heidelberg	Pump Station Repairs	\$0	\$0	\$2,772	\$0	\$2,772
North Heidelberg	Pump Station Repairs	\$0	\$0	\$6,028	\$0	\$6,028
Penn Township	Pump Station Repairs	\$0	\$0	\$63,817	\$0	\$63,817
Penn Township	Pump Station Repairs	\$0	\$0	\$7,381	\$0	\$7,381

Penn Township	Pump Station Repairs – Jenners Pond	\$0	\$0	\$(1,200)	\$0	\$(1,200)
Penn Township	Pump Station Repairs	\$0	\$0	\$4,364	\$0	\$4,364
Plumsock	Pump Station Repairs	\$0	\$0	\$48,636	\$0	\$48,636
Plumsock	Pump Station Repairs	\$0	\$0	\$57,896	\$0	\$57,896
Plumsock	Pump Station Repairs	\$0	\$0	\$2,587	\$0	\$2,587
Stoney Creek	Pump Station Repairs	\$0	\$0	\$8,700	\$0	\$8,700
Twin Hills	Collection System Repairs	\$2,787	\$0	\$0	\$0	\$2,787
Twin Hills	Pump Station Repairs	\$0	\$0	\$16,583	\$0	\$16,583
Twin Hills	Pump Station Repairs	\$0	\$0	\$1,835	\$0	\$1,835
Willistown Woods	Pump Station Repairs	\$0	\$0	\$(2,566)	\$0	\$(2,566)
Willistown Woods	Pump Station Repairs – Willistown Knoll	\$0	\$0	\$52,359	\$0	\$52,359
Willistown Woods	Pump Station Repairs – Willistown Hunt	\$0	\$0	\$10,666	\$0	\$10,666
Willistown Woods	Pump Station Repairs	\$0	\$0	\$669	\$0	\$669
Total	SEPA Systems	\$6,636,978	\$247,500	\$1,870,787	\$1,009,638	\$8,755,264

Description of all the facilities to be improved in the upcoming 12-month period.

Table 13 identifies the projected DSIC eligible spending that is planned to be completed by December 31, 2026.³

Table 13

System	Description	Est. Project Cost
GPA		
Beech Mountain	Force Main Repairs	\$22,500
Beech Mountain	Replace Laterals	\$30,000
Bunker Hill	Collection System Repairs	\$3,750
Cove Village	Pump Station Repairs	\$15,000
Cove Village	Pump Station Repairs	\$7,500
Eagle Rock	LPSS Repairs	\$15,000
Eagle Rock	Pump Station Repairs	\$25,000
Eagle Rock	Replace Laterals	\$25,000
Eagle Rock	Pump Station Repairs	\$7,500
Eagle Rock	Pump Station Repairs	\$56,250
Eagle Rock	Pump Station Repairs	\$55,000
Eagle Rock	Pump Station Repairs	\$20,000
Eagle Rock	Pump Station Repairs	\$7,500
Emlenton	Replace Laterals	\$35,000
Emlenton	Pump Station Repairs	\$30,000
Lake Harmony	Replace Laterals	\$15,000
Lake Harmony	Pump Station Repairs	\$18,750
Laurel Lakes	Replace Laterals	\$10,000
Laurel Lakes	Pump Station Repairs	\$3,750
Links at Gettysburg	Gravity System Rehabilitation	\$45,625
Links at Gettysburg	Replace Laterals	\$2,500
Links at Gettysburg	Pump Station Repairs	\$11,250
Masthope	Force Main Repairs	\$3,000
Masthope	Gravity System Rehabilitation	\$750
Masthope	Pump Station Repairs	\$4,125

³ The projected amounts in Table 13 do not include the additional systems that have been added in the Modified Third LTIP pending before the Commission.

Masthope	Replace Laterals	\$28,000
Masthope	Gravity System Rehabilitation	\$1,875
Masthope	Pump Station Repairs	\$60,000
Masthope	Pump Station Repairs	\$60,000
Masthope	Pump Station Repairs	\$60,000
Masthope	Pump Station Repairs	\$60,000
Masthope	Pump Station Repairs	\$60,000
Masthope	Pump Station Repairs	\$60,000
Masthope	Pump Station Repairs	\$50,000
Masthope	Pump Station Repairs	\$50,000
Masthope	Pump Station Repairs	\$11,250
Masthope	Pump Station Repairs	\$1,875
Pinecrest	Force Main Repairs	\$1,500
Pinecrest	Gravity System Rehabilitation	\$375
Pinecrest	Pump Station Repairs	\$2,025
Pinecrest	Replace Laterals	\$14,000
Pinecrest	Pump Station Repairs	\$900
Pinecrest	Pump Station Repairs	\$17,000
Pinecrest	Pump Station Repairs	\$11,000
Pinecrest	Pump Station Repairs	\$900
Thornhurst	LPSS Repairs	\$11,250
Thornhurst	Replace Laterals	\$20,000
Thornhurst	Collection System Repairs	\$3,750
Tobyhanna	Pump Station Repairs	\$5,000
Tobyhanna	Replace Laterals	\$7,500
Tobyhanna	Pump Station Repairs	\$3,750
Tobyhanna	Pump Station Repairs	\$15,000
Treasure Lake	Force Main Repairs	\$54,000
Treasure Lake	Replace Laterals	\$43,200
Treasure Lake	Pump Station Repairs	\$18,750
Washington Park	Pump Station Repairs	\$7,500
White Haven	Gravity System Rehabilitation	\$56,250
White Haven	Mount Laurel Pump Station Rehabilitation	\$55,000
White Haven	East Side Pump Station Rehabilitation	\$55,000
White Haven	Pump Station Repairs	\$11,250
White Haven	Belacola - Pump Station Repairs	\$44,615
White Haven	Beech Road - Pump Station Repairs	\$44,615
White Haven	Cunningham - Pump Station Repairs	\$44,615
White Haven	LaMesa - Pump Station Repairs	\$44,615

White Haven	Pump Station Repairs	\$20,000
White Haven	Pump Station Repairs	\$7,500
White Haven	Pump Station Repairs	\$11,250
Woodloch Springs	Pump Station Repairs	\$7,500
Woodloch Springs	Force Main Repairs	\$1,500
Woodloch Springs	Gravity System Rehabilitation	\$563
Woodloch Springs	Pump Station Repairs	\$2,025
Woodloch Springs	Replace Laterals	\$14,000
Woodloch Springs	Pump Station Repairs	\$900
	GPA SUBTOTAL	\$1,631,348
SEPA		
Cheltenham	Collection System Repairs	\$1,418,040
Cheltenham	Lateral Repairs	\$25,000
East Bradford	Pump Station Repairs – Plum Run	\$250,000
East Bradford	Pump Station Repairs – Stodes Mill	\$500,000
East Norriton	Collection System Repairs	\$585,000
East Norriton	Collection System Repairs	\$351,000
East Norriton	Pump Station Repairs – Felton Rd	\$160,000
Limerick	Collection System Repairs	\$140,400
Limerick	Collection System Repairs	\$225,000
Limerick	Pump Station Repairs	\$450,000
Limerick	Pump Station Repairs	\$46,000
Limerick	Pump Station Repairs	\$56,250
Lower Makefield	Collection System Repairs	\$3,149,690
Lower Makefield	Collection System Repairs	\$1,737,760
Lower Makefield	Collection System Repairs	\$491,450
Lower Makefield	Collection System Repairs	\$468,000
Lower Makefield	Collection System Repairs	\$83,348
Lower Makefield	Pump Station Repairs	\$27,500
Lower Makefield	Pump Station Repairs	\$11,000
Lower Makefield	Pump Station Repairs	\$65,488
Media	Collection System Repairs	\$375,000
Media	Pump Station Repairs	\$7,500
New Garden	Collection System Repairs – Rte 41	\$146,543
New Garden	Pump Station Repairs	\$3,857
North Heidelberg	Collection System Repairs	\$100,000
North Heidelberg	Pump Station Repairs – Golf	\$46,000
North Heidelberg	Pump Station Repairs – Ground Zero	\$46,000
North Heidelberg	Pump Station Repairs – Patricia	\$46,000

North Heidelberg	Pump Station Repairs – Walnut	\$46,000
North Heidelberg	Pump Station Repairs	\$56,250
Penn Township	Collection System Repairs	\$61,425
Penn Township	Pump Station Repairs	\$22,500
Plumsock	Pump Station Repairs	\$37,500
Plumsock	Pump Station Repairs	\$220,000
Stoney Creek	Collection System Repairs	\$37,500
Valley Forge	Pump Station Repairs	\$22,500
Willistown Woods	Pump Station Repairs – Willistown Knoll	\$50,000
Willistown Woods	Pump Station Repairs – Willistown Knoll	\$22,500
Misc	Pump Station Repairs	\$67,150
	SEPA SUBTOTAL	\$11,655,151
Total GPA & SEPA		\$13,286,498

Table 14 below shows the projected quantities of property to be improved or replaced by December 31, 2026.⁴

Table 14

Division	Mains (LF)	Manholes (each)	Pump Stations
GPA	5,224	0	43
SEPA	58,951	75	25
Total	64,175	75	68

Baseline Inflow and Infiltration Information

In the Commission’s approval of APW’s Revised LTIIIP for years 2020-2024, the Commission required that Aqua provide a baseline inflow and infiltration (“I&I”) and progress reports on the I&I reduction in subsequent AAOPs.

Table 15 and **Table 16** below provide baseline I&I for the Company’s systems in GPA and SEPA based upon 2025 data.

⁴ The projected amounts in Table 14 do not include the systems that have been added in the Modified Third LTIIIP pending before the Commission.

Table 15 – GPA

Name	3 Month Max / Annual Avg. Ratio	GPD/EDU
Beech Mountain	Low Pressure Collection System only. Not metered. Minimal I&I potential.	
Bunker Hill	1.19	205
Cove Village	1.94	129
Eagle Rock	1.75	124
Emlenton	1.44	175
Lake Harmony	1.49	158
Laurel Lakes	1.63	245
Links at Gettysburg	1.43	121
Masthope	1.34	74
Pinecrest	1.16	106
Rivercrest	1.06	81
Thornhurst	1.29	211
Tobyhanna	1.40	172
Treasure Lake	1.46	291
Washington Park	1.27	131
White Haven	1.53	264
Woodloch Springs	1.29	146

Table 16 – SEPA

Name	3 Month Max / Annual Avg. Ratio	GPD/EDU
Brandywine River Estates	1.07	137
Bridlewood	1.08	119
Deerfield Knoll	1.03	85
East Bradford	Collection System only. Not metered.	
East Brandywine (Little Washington)	1.29	206
Honeycroft	1.04	92
Limerick – King Road WWTP	1.10	103
Limerick – Possum Hollow WWTP	1.23	80
Media Borough	1.08	202
New Daleville	1.04	168
Newlin Green	1.10	130
Peddler’s View	1.04	147
Penn London	1.39	N/A
Penn Township	1.07	174
The Greens at Penn Oaks	1.08	71
Plumsock	1.24	116
Sage Hill	1.06	166
Stony Creek	1.08	84
Twin Hills	1.02	124
Village at Valley Forge	1.06	N/A
Willistown Woods	1.06	116

A typical design maximum month-to-annual average is 1.30. Therefore, APW considers any system with a 3-Consecutive Maximum Month to Annual Average Flow Rate above 1.40 to be an indication of a possible I&I issue. As shown above, 9 systems exceeded this threshold in GPA. No system exceeds this threshold in SEPA. There was a drought in the summer of 2025, which explains why so many systems exceeded the 1.30 threshold.

A second marker used by APW for possible I&I issues is when the Gallons Per Day (“GPD”) per Equivalent Dwelling Unit (“EDU”) exceeds the Wastewater Tariff expected

flow per EDU of 225 GPD/EDU. As shown above, Laurel Lakes, Treasure Lake, and White Haven exceeded this threshold in GPA. No system exceeds this threshold in SEPA.

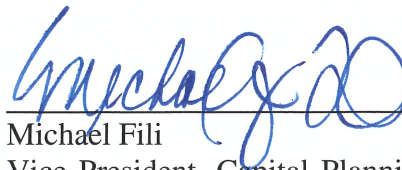
APW is aware of extraneous flows within these systems and has been investigating and eliminating these sources.

Summary

APW's AAOP describes all eligible property repaired, improved, and replaced in the immediately preceding 12-month period pursuant to APW's approved LTIIP. APW's AAOP also provides descriptions of projects planned to be completed by year end 2026.

VERIFICATION

I, Michael Fili, Vice President, Capital Planning, Design & Construction of Aqua Pennsylvania Wastewater, Inc., hereby state that the facts set forth in Aqua Pennsylvania Wastewater, Inc.'s Annual Asset Optimization Plan are true and correct to the best of my knowledge, information and belief and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).



Michael Fili
Vice President, Capital Planning, Design &
Construction
Aqua Pennsylvania Wastewater, Inc.

Dated: March 2, 2026

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Aqua Pennsylvania Wastewater, Inc. :
Annual Asset Optimization Plan : **Docket No. M-2026-_____**

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the individuals and in the manner listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

VIA E-MAIL

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Alexander R. Stahl

Dated: March 2, 2026