



**Susan Simms Marsh**

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**VIA** eFiling

March 1, 2021

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")  
2020 Wastewater Annual Asset Optimization Plan  
Docket No. M-2021-\_\_\_\_\_

Dear Secretary Chiavetta:

Enclosed for filing is Pennsylvania-American Water Company's 2020 Wastewater Annual Asset Optimization Plan ("AAO Plan") in compliance with 66 Pa.C.S. § 1356.

A copy of the AAO Plan 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 "Susan Simms Marsh".

Susan Simms Marsh

Enclosures

## Pennsylvania-American Water Company 2020 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 (LTIP) to file an AAO Plan. PAWC received approval for its modified Wastewater DSIC and 2015-2023 LTIP from the Pennsylvania Public Utility Commission (“Commission”) in an Order dated April 16, 2020. 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.

### Description of PAWC’s Wastewater Systems (DSIC-eligible)

District #	District Description	Gravity Main (LF)	Force/Low Pressure Main (LF)	Manholes	Valves	Lift Stations	No. Customers as of 12/31/2019
2469	Blue Mountain Lake	0	68,252	0	121	6	871
2469	Lehman Pike WW - Saw Creek	0	266,504	1	295	13	2,722
2458	Pocono Country Place (Pocono)	150,649	99,798	777	7	2	3,686
2426	Claysville	59,243	1,149	342	0	1	490
2467	Coatesville	448,766	96,549	2,138	15	18	6,288
2447	Clarion	204,138	36,295	957	6	6	2,224
2436	Marcel Lakes	30,732	28,597	130	114	3	353
2492	SCRANTON WW	1,733,782	12,015	9,418	0	7	29,242
2412	McKeesport	925,910	33,981	4,657	17	10	10,568
2483	FRANKLIN WW	55,239	12,423	198	10	1	342
2485	MCEWENSVILLE WW	12,669	1,242	57	0	4	131
2487	NEW CUMBERLAND WW	144,723	6,899	608	0	3	3,058
2435	KOPPEL WW	25,910	0	87	1	0	353
2460	FAIRVIEW WW	363,197	33,307	1,932	3	17	4,068
2438	PAINT ELK TWP WW	90,010	21,323	421	53	6	661
	<b>Total</b>	<b>4,244,967</b>	<b>718,333</b>	<b>21,723</b>	<b>642</b>	<b>97</b>	<b>65,057</b>

## Long Term Infrastructure Plan Summary

PAWC has continuously invested in its wastewater infrastructure to maintain safe, reliable service to its customers. From 2015 through 2020, PAWC has consistently invested in wastewater infrastructure. The chart below compares the actual to projected cumulative expenditures during the 2015 to 2020.

Projected Annual Expenditures 2019 to 2023				
Year	Projected Annual Expenditures <sup>(1)</sup>	Projected Cumulative Expenditures	Actual Annual Expenditures	Actual Cumulative Annual Expenditures
2015	\$5,265,244	\$5,265,244	\$8,923,443	\$8,923,443
2016	\$5,290,000	\$10,555,244	\$5,509,055	\$14,432,498
2017	\$5,682,655	\$16,237,899	\$8,416,554	\$22,849,052
2018	\$5,097,241	\$21,335,140	\$4,810,440	\$27,659,492
2019	\$33,870,930	\$55,206,070	\$32,877,761	\$60,537,253
2020	\$18,184,674	\$73,390,744	\$22,166,767	\$82,704,020
2021	\$20,351,465	\$93,742,209		
2022	\$19,495,725	\$113,237,934		
2023	\$23,839,525	\$137,077,459		
<b>Total</b>	<b>\$137,077,459</b>		<b>\$82,704,020</b>	

## Summary of Wastewater DSIC-eligible expenditures – Calendar year 2020

District	Actual Expenditures 2020
Blue Mountain Lake - 76	\$0
Lehman Pike & Marcel Lakes - 69	\$146,890
Pocono - 58	\$482,084
Claysville - 26	\$0
Coatesville -67	\$2,110,829
Clarion - 47	\$1,405,730
SCRANTON WW - 92	\$8,993,335
McKeesport - 12	\$7,175,305
FRANKLIN WW - 83	\$655
MCEWENSVILLE WW - 85	\$1,764
NEW CUMBERLAND WW - 87	\$54,030
KOPPEL WW - 35	\$993,487
FAIRVIEW WW - 60	\$9,789
PAINT ELK TWP WW - 38	\$792,868
<b>Total</b>	<b>\$22,166,767</b>

## Detailed Project Listing of Wastewater DSIC-eligible projects – Calendar year 2020 Actual

District	Funding Project Number	Description:	Installed Quantity	Capital Investment 2020
<b>Clarion WW</b>				
47	R24-47B1	Sewer line replacement projects (including manholes and laterals)	2,514 ft	\$1,145,754
47	R24-47C1	Emergency sewer main replacement work.	ft	\$212
47	R24-47D1	Sewer line relocation projects (including manholes and laterals)	1,220 ft	\$185,701
47	R24-47F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	34	\$60,505
47	R24-47H1	Lateral replacements at locations determined to be deficient during annual inspection program.	64	\$13,558
47	R24-47Q1	Process Plant Facilities and Equip - Lift Stations		
<b>47 Total</b>		<b>Clarion WW</b>	<b>3,734 ft</b>	<b>\$1,405,730</b>
<b>Pocono WW</b>				
58	R24-58B1	Sewer line replacement projects (including manholes and laterals)	2,634 ft	\$441,159
58	R24-58C1	Emergency sewer main replacement work.		\$302
58	R24-58F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.		\$41
58	R24-58H1	Lateral replacements at locations determined to be deficient during annual inspection program.	16	\$40,583
<b>58 Total</b>		<b>Pocono WW</b>	<b>2,634 ft</b>	<b>\$482,084</b>
<b>Coatesville WW</b>				
67	R24-67B1	Sewer line replacement projects (including manholes and laterals)	5,209 ft	\$1,602,361
67	R24-67C1	Emergency sewer main replacement work.	128 ft	\$70,984
67	R24-67F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program.		\$169
67	R24-67H1	Lateral replacements at locations determined to be deficient during annual inspection program.		\$161,266
67	carry over	West End Trunk Line Phase3-6	57	\$276,049
<b>67 Total</b>		<b>Coatesville WW</b>	<b>5,337 ft</b>	<b>\$2,110,829</b>
<b>Lehman Pike WW</b>				
69	R24-69B1	Sewer line replacement projects (including manholes and laterals)		(\$82,674)
69	R24-69C1	Emergency sewer main replacement work.	41 ft	\$21,538
69	R24-69F1	Valve replacements at locations determined to be deficient		\$38
69	R24-69H1	Lateral replacement project	94	\$207,988
<b>69 Total</b>		<b>Lehman Pike WW</b>	<b>41 ft</b>	<b>\$146,890</b>
<b>Scranton WW</b>				
92	I24-920007	Outfall #022 - Washburn Street **Note:Q4 DSIC filing had \$6.9M	602 ft	\$1,500,000
92	R24-92B1	Sewer line replacement projects (including manholes and laterals)	7,839 ft	\$4,616,366
92	R24-92C1	Emergency sewer main replacement work.	482 ft	\$1,447,281
92	R24-92D1	Sewer line relocation projects (including manholes and laterals)	ft	\$5,855
92	R24-92F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	101	\$337,075
92	R24-92H1	Lateral replacements at locations determined to be deficient during annual inspection program.	260	\$731,272
92	carry over	misc projects		\$355,487
<b>92 Total</b>		<b>Scranton WW</b>	<b>8,923 ft</b>	<b>\$8,993,335</b>
<b>McKeesport WW</b>				
12	R24-12B1	Sewer line replacement projects (including manholes and laterals)	18,364 ft	\$5,671,507
12	R24-12C1	Lateral replacements at locations determined to be deficient during annual inspection program.		\$773,105
12	R24-12F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.		\$855,720
12	carry over	misc projects		(\$125,027)
<b>12 Total</b>		<b>McKeesport WW</b>	<b>18,364 ft</b>	<b>\$7,175,305</b>

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**Detailed Project Listing of Wastewater DSIC-eligible projects – Calendar year 2020 Actual  
(Continued)**

<b>FRANKLIN WW</b>					
83	R24-83H1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.		\$655
<b>83 Total</b>		<b>FRANKLIN WW</b>			<b>\$655</b>
<b>McEwensville WW</b>					
85	R24-85F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.		\$1,764
<b>85 Total</b>		<b>McEwensville WW</b>			<b>\$1,764</b>
<b>Cumberland WW</b>					
87	R24-87C1		Emergency sewer main replacement work.	15 ft	\$35,496
87	R24-87H1		Lateral replacements at locations determined to be deficient during annual inspection program.	7	\$18,535
<b>87 Total</b>		<b>New Cumberland WW</b>		<b>15 ft</b>	<b>\$54,030</b>
<b>Koppel WW</b>					
35	R24-35B1		Sewer line replacement projects (including manholes and laterals)	1,831 ft	\$858,031
35	R24-35C1		Emergency sewer main replacement work.	44 ft	\$28,051
35	R24-35D1		Sewer line relocation projects (including manholes and laterals)	38 ft	\$59,520
35	R24-35F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program.	11	\$39,518
35	R24-35H1		Lateral replacements at locations determined to be deficient during annual inspection program.	55	\$8,367
<b>35 Total</b>		<b>Koppel WW</b>		<b>1,913 ft</b>	<b>\$993,487</b>
<b>Fairview WW</b>					
60	R24-60B1		Sewer line replacement projects (including manholes and laterals)	ft	(\$20,208)
60	R24-60C1		Emergency sewer main replacement work.	25 ft	\$12,536
60	R24-60F1		Manhole replacements at locations determined to be deficient during annual manhole inspection program.		\$4,842
60	R24-60H1		Lateral replacements at locations determined to be deficient during annual inspection program.	5	\$12,619
<b>60 Total</b>		<b>Fairview WW</b>		<b>25 ft</b>	<b>\$9,789</b>
<b>Paint Elk TWP WW</b>					
38	R24-38B1		Sewer line replacement projects (including manholes and laterals)	2,046 ft	\$779,228
38	R24-38-C1		Emergency sewer main replacement work.	ft	\$312
38	R24-38H1		Lateral replacements at locations determined to be deficient during annual inspection program.	31	\$13,328
<b>38 Total</b>		<b>Paint Elk TWP WW</b>		<b>2,046 ft</b>	<b>\$792,868</b>
<b>Total</b>				<b>43,032 ft</b>	<b>\$22,166,767</b>

## Detailed Project Listing of Wastewater DSIC-Eligible projects – Calendar year 2021 Projected

The project listing envisioned for the upcoming 12 months consist of a mixture of sewer line replacement, manhole and lateral work. The information is preliminary and subject to change.

District	Funding Project Number	Description:	Est. Quantity	Capital Projection 2021
<b>Clarion WW</b>				
47	R24-47B1	Sewer line replacement projects (including manholes and laterals)	2,614 ft	\$701,775
47	R24-47C1	Emergency sewer main replacement work.	5 ft	\$4,494
47	R24-47F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	7	\$25,500
47	R24-47H1	Lateral replacements at locations determined to be deficient during annual inspection program.	11	\$28,200
47	I24-470007	Mays Lift Station Replacement	1	\$1,476,133
<b>47 Total</b>		<b>Clarion WW</b>	<b>2,618 ft</b>	<b>\$2,236,102</b>
<b>Pocono WW</b>				
58	R24-58C1	Emergency sewer main replacement work.	20 ft	\$19,477
58	R24-58F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	9	\$29,750
58	R24-58H1	Lateral replacements at locations determined to be deficient during annual inspection program.	7	\$18,800
<b>58 Total</b>		<b>Pocono WW</b>	<b>20 ft</b>	<b>\$68,027</b>
<b>Claysville WW</b>				
26	R24-26C1	Emergency sewer main replacement work.	0 ft	\$73
26	R24-26F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	4	\$15,300
26	R24-26H1	Lateral replacements at locations determined to be deficient during annual inspection program.	3	\$7,050
<b>26 Total</b>		<b>Claysville WW</b>	<b>0 ft</b>	<b>\$22,423</b>
<b>Coatesville WW</b>				
67	R24-67B1	Sewer line replacement projects (including manholes and laterals)	4,909 ft	\$1,204,607
67	R24-67C1	Emergency sewer main replacement work.	38 ft	\$37,607
67	R24-67H1	Lateral replacements at locations determined to be deficient during annual inspection program.	28	\$70,500
<b>67 Total</b>		<b>Coatesville WW</b>	<b>4,948 ft</b>	<b>\$1,312,714</b>
<b>Lehman Pike WW</b>				
69	R24-69C1	Emergency sewer main replacement work.	52 ft	\$50,808
69	R24-69H1	Lateral replacements at locations determined to be deficient during annual inspection program.	127	\$319,600
<b>69 Total</b>		<b>Lehman Pike WW</b>	<b>52 ft</b>	<b>\$370,408</b>
<b>Scranton WW</b>				
92	R24-92B1	Sewer line replacement projects (including manholes and laterals)	13,635 ft	\$6,981,679
92	R24-92C1	Emergency sewer main replacement work.	965 ft	\$947,463
92	R24-92F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	73	\$255,000
92	R24-92H1	Lateral replacements at locations determined to be deficient during annual inspection program.	112	\$282,000
<b>92 Total</b>		<b>Scranton WW</b>	<b>14,600 ft</b>	<b>\$8,466,143</b>

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<b>McKeesport WW</b>				
12	R24-12B1	Sewer line replacement projects (including manholes and laterals)	18,252 ft	\$7,571,599
12	R24-12C1	Lateral replacements at locations determined to be deficient during annual inspection program.	481 ft	\$472,330
12	R24-12D1	Sewer line relocation projects (including manholes and laterals)	400 ft	\$38,723
12	R24-12F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	461	\$1,615,000
12	I24-120012	McKeesport Replace Glenn Avenue Pump Station	1	\$629,052
12	I24-120014	4KK Spring St - McKeesport 2021	1,681 ft	\$2,313,708
<b>12 Total</b>			<b>20,814 ft</b>	<b>\$12,640,412</b>
<b>FRANKLIN WW</b>				
83	R24-83B1	Sewer line replacement projects (including manholes and laterals)	6,435 ft	\$417,767
83	R24-83H1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	4	\$9,400
<b>83 Total</b>			<b>6,435 ft</b>	<b>\$427,167</b>
<b>McEwensville WW</b>				
85	R24-85C1	Emergency sewer main replacement work.	2 ft	\$247
85	R24-85F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program id required.	2	\$8,500
85	R24-85H1	Lateral replacements at locations determined to be deficient during annual inspection program.	2	\$4,700
<b>85 Total</b>			<b>2 ft</b>	<b>\$13,447</b>
<b>New Cumberland WW</b>				
87	R24-87B1	Sewer line replacement projects (including manholes and laterals)	14,171 ft	\$1,743,270
87	R24-87C1	Emergency sewer main replacement work.	25 ft	\$24,746
87	R24-87H1	Lateral replacements at locations determined to be deficient during annual inspection program.	15	\$37,600
<b>87 Total</b>			<b>14,196 ft</b>	<b>\$1,805,616</b>
<b>Koppel WW</b>				
35	R24-35B1	Sewer line replacement projects (including manholes and laterals)	4,964 ft	\$1,266,624
35	R24-35C1	Emergency sewer main replacement work.	9 ft	\$9,244
35	R24-35F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program.	2	\$8,500
35	R24-35H1	Lateral replacements at locations determined to be deficient during annual inspection program.	6	\$14,100
<b>35 Total</b>			<b>4,974 ft</b>	<b>\$1,298,467</b>
<b>Fairview WW</b>				
60	R24-60B1	Sewer line replacement projects (including manholes and laterals)	3,011 ft	\$591,061
60	R24-60C1	Emergency sewer main replacement work.	61 ft	\$59,755
60	R24-60H1	Lateral replacements at locations determined to be deficient during annual inspection program.	19	\$47,000
<b>60 Total</b>			<b>3,071 ft</b>	<b>\$697,816</b>
<b>Paint Elk TWP WW</b>				
38	R24-38B1	Sewer line replacement projects (including manholes and laterals)	2,376 ft	\$504,068
38	R24-38C1	Emergency sewer main replacement work.	4 ft	\$3,910
38	R24-38F1	Manhole replacements at locations determined to be deficient during annual manhole inspection program.	2	\$8,500
38	R24-38H1	Lateral replacements at locations determined to be deficient during annual inspection program.	6	\$14,100
<b>38 Total</b>			<b>2,380 ft</b>	<b>\$530,578</b>
<b>Total</b>			<b>74,110 ft</b>	<b>\$29,889,320</b>

**Summary:**

PAWC's AAO Plan demonstrates that PAWC has accelerated DSIC-eligible wastewater capital investment and the actual cumulative expenditures over the last 4 years exceed planned budgetary levels included in the LTIIIP, primarily due to an increased level of investment along with additional system acquisitions.

The projected 2021 wastewater replacement and rehabilitation program on page 4 of this AAOP is consistent with, though slightly higher than, year 2021 of the current approved LTIIIP for the wastewater operations covered under this AAOP. The elevated investment is largely a result of the additional work due to poor infrastructure condition that has been uncovered in the newer acquisitions.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**CERTIFICATE OF SERVICE**

I hereby certify that I have on this day served a true and correct copy of Pennsylvania-American Water Company's 2020 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:

**VIA EMAIL DELIVERY**

Richard Kanaskie  
Director and Chief Prosecutor  
Bureau of Investigation and Enforcement  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor, F West  
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Christine Maloni Hoover  
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555 Walnut Street  
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Harrisburg, PA 17101-1923  
[choover@paoca.org](mailto:choover@paoca.org)

The above-referenced Plan was filed with the Pennsylvania Public Utility Commission on March 1, 2021, with a copy to Kenneth Shaffer VIA Email.



Susan Simms Marsh  
Deputy General Counsel  
Pennsylvania-American Water Company  
852 Wesley Drive  
Mechanicsburg, PA 17055  
717-550-1570

Dated this 1<sup>st</sup> day of March, 2021