



PENNSYLVANIA
AMERICAN WATER

Susan Simms Marsh
Deputy General Counsel
800 West Hersheypark Drive
Hershey, PA 17033

P 717-531-3208
F 717-531-3399
E susan.marsh@amwater.com
I www.amwater.com

January 14, 2019

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Rosemary Chiavetta, Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor North
Harrisburg, PA 17120

Re: Application and related filings of Pennsylvania-American Water Company under Sections 507, 1102(a), and 1329 of the Pennsylvania Public Utility Code, 66 Pa. C.S. §§ 507, 1102(a), 1329, for approval of its acquisition of water system assets of the Steelton Borough Authority, related water service rights, fair market valuation ratemaking treatment, deferral of the post-acquisition improvement costs, and certain contracts with municipal corporations; Docket No. A-2019-3006880 *et al.*

Dear Secretary Chiavetta:

Enclosed for filing with the Commission are Pennsylvania-American Water Company's responses to the 66 Pa. C.S. Section 1329 Application Completeness Review of Pennsylvania-American Water Company Acquisition of Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880 Missing Application Information, dated January 9, 2019.

Please note that the CONFIDENTIAL CD-Rom labeled "PAWC Steelton Q1" provided in response to Question 1 is not subject to disclosure to third parties under the provisions and procedures specified in The Public Utility Confidential Security Information Disclosure Protection Act (35 P.S. §§ 2141.1 to 2141.6) and the PUC's regulations implementing such Act at 52 Pa. Code §§ 102.1 – 102.4.

The responses have been served upon the public advocates in accordance with the attached Certificate of Service and in accordance with the Commission's *Final Implementation Order* entered October 27, 2016, at Docket No. M-2016-2543193.

423849

Rosemary Chiavetta, Secretary
January 14, 2019
Page 2

Thank you for your attention to this matter. Please date-stamp the extra copy of the filing and return it to me in the enclosed envelope. Please do not hesitate to contact me if you have any questions.

Sincerely,


Susan Simms Marsh

Enclosures

VIA UPS Next Day Air Service

cc: Per Certificate of Service
Sean Donnelly, Bureau of Technical Utility Services

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application and related filings of Pennsylvania-American Water Company under Sections 507, 1102(a), and 1329 of the Pennsylvania Public Utility Code, 66 Pa. C.S. §§ 507, 1102(a), 1329, for approval of its acquisition of water system assets of the Steelton Borough Authority, related water service rights, fair market valuation ratemaking treatment, deferral of the post-acquisition improvement costs, and certain contracts with municipal corporations; Docket No. A-2019-3006880 *et al.*

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of Pennsylvania-American Water Company's responses to the *66 Pa. C.S. Section 1329 Application Completeness Review of Pennsylvania-American Water Company Acquisition of Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880 Missing Application Information*, dated January 9, 2019, upon the parties, listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a party).

VIA UPS NEXT DAY AIR SERVICE

Office of Small Business Advocate
300 North Second Street
Suite 202
Harrisburg, PA 17101

Office of Consumer Advocate
555 Walnut Street
Forum Place, 5th Floor
Harrisburg, PA 17101-1923

Bureau of Investigation and Enforcement
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
2nd Floor, F West
Harrisburg, PA 17120

DATED: January 14, 2019



Susan Simms Marsh, Esq.
Pennsylvania-American Water Company
800 West Hersheypark Drive
Hershey, PA 17033
Telephone: 717-531-3208
Facsimile: 717-531-3399
E-Mail: susan.marsh@amwater.com

**66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019**

Missing Application Information

- 1. Checklist Item No. 4 – The Water System Assessment of Tangible Assets (Engineer’s Assessment) provided in the Application’s Appendix A-15-a contains a reference to “Tapping Fee calculations” in Section 1.0 – Executive Summary. Please provide an electronic working copy of this referenced document and any other studies and working papers used by the engineer to quantify the known and estimated trended and overhead costs identified in the appendices of the Engineer’s Assessment.**

Response: The following documents are being provided as follows:

- a. See Confidential CD Rom labeled *PAWC Steelton Q1* accompanying the response**
- 01 2010 Water System Improvements
 - 02 General Notes and Legend
 - 03 Site Map Improvements Contract 2
 - 04 Raw Water Intake Line
 - 05 Waterline Renovations WTP to Front Street P5
 - 06 Waterline Renovations WTP to Front Street P6
 - 07 Waterline Renovations WTP to Front Street P7
 - 08 Waterline Renovations WTP to Front Street P8
 - 09 S 19th St Interconnect
 - 1972 Water Filtration Plant
 - 1994 Water Distribution System Improvements
 - Water Distribution System Plans 1993
- b. See CD Rom labeled *PAWCSBAQ1PUBLIC* accompanying the response**
- Trended Costs
 - Water Act 57 Study

The referenced Tapping Fee calculations are contained in the Water Act 57 Study. HRG has been unable to locate an electronic working copy. The “Tapping Fee calculations” referenced in Section 1.0 of the Engineer’s Assessment were not used by the engineer to quantify the known and estimated trended and overhead costs identified in the appendices of the Engineer’s Assessment.

**66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019**

Missing Application Information

2. **Checklist Item No. 9 – The Application’s Appendix A-9 and the statement provided in Appendix A-7 do not provide a verification that ScottMadden, Inc. has no affiliation with the buyer or seller. Please revise these statements to provide this verification from ScottMadden, Inc.**

Response: See revised verification of Dylan W. D’Ascendis, CVA, CRRA, Director of ScottMadden, Inc., attached and identified as Appendix A-7 REVISED.

VERIFICATION

I, Dylan W. D'Ascendis, CVA, CRRA, Director of ScottMadden, Inc. ("ScottMadden"), a Utility Valuation Expert in the Commonwealth of Pennsylvania, hereby state that ScottMadden was selected by the Steelton Borough Authority ("Authority") to perform a fair market value appraisal of the Authority's water treatment and distribution system (the "System"); that, as Director at ScottMadden, I prepared the foregoing Fair Market Value Appraisal of the System; that the facts set forth in the Fair Market Value Appraisal are true and correct to the best of my knowledge, information, and belief; that, as Director of ScottMadden, I determined the fair market value of the System in compliance with the Uniform Standards of Professional Appraisal Practice and the Statement on Standards for Valuation Services, employing the cost, market and income approaches; that neither ScottMadden nor I have derived any material benefit from the sale of the selling utility other than fees for services rendered; that I am not affiliated with either Pennsylvania-American Water Company or the Authority now or within a 12-month period of the date ScottMadden was engaged to perform the appraisal; that I am not an immediate family member of a director, officer or employee of either Pennsylvania-American Water Company or the Authority now or within a 12-month period of the date ScottMadden was engaged to perform the appraisal; and that I make this verification subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

Date: January 11, 2019



Dylan W. D'Ascendis, CVA, CRRA
Director
ScottMadden, Inc.

**66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019**

Missing Application Information

3. Checklist Item No. 14 – The Application’s Appendix A-14 contains PAWC Statement No. 1, which identifies a document titled “PAWC Exhibit SDF-2” on page 18. This document does not appear to be included with the filing. Please provide a copy of this document.

Response: PAWC Exhibit SDF-2 is the Application and all of its appendices (Appendices A through K). Please see PAWC Statement No. 1 at p. 3.

**66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019**

Missing Application Information

- 4. Checklist Item No. 15.a. – The Engineer’s Assessment contained in Application’s Appendix A-15-a needs to be revised to include the following:**
- a. The signature and seal of the engineer in responsible charge of the Engineer’s Assessment;**
 - b. An inventory of plant held for future use or a signed and sealed statement from the engineer in responsible charge of the Engineer’s Assessment that the water system does not contain plant held for future use; and**
 - c. A copy of the “Tapping Fee calculations” referenced in Section 1.0 – Executive Summary and any other studies and working papers used by the engineer to quantify the known and estimated trended and overhead costs identified in the appendices of the Engineer’s Assessment.**

- Response:**
- a. See attached Water System Assessment of Tangible Assets with the signature and seal of the engineer in responsible charge of the Engineer’s Assessment.**
 - b. See attached statement.**
 - c. Please refer to Q. 1.**

Response 4.a.



Steelton Borough Authority

Water System
Assessment of Tangible Assets
Pursuant to PUC Code §1329 (A)(4)
Borough of Steelton, Dauphin County, PA

October 2018



[BUILDING RELATIONSHIPS.
DESIGNING SOLUTIONS.]

**WATER SYSTEM
ASSESSMENT OF TANGIBLE ASSETS**

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**WATER SYSTEM
ASSESSMENT OF TANGIBLE ASSETS**

STEELTON BOROUGH AUTHORITY, DAUPHIN COUNTY, PENNSYLVANIA

1.0 – EXECUTIVE SUMMARY

As required by PA Act 12 (HB1329) and following the guidelines of the "Uniform System of Accounts for Class A Water Utilities", an assessment of the tangible assets of facilities and equipment for the Steelton Borough Authority (Authority) water treatment, storage and distribution system was prepared. Each facility and class of equipment was coded based on Section 300 of the "Water Utility Plant Accounts" outlined in the Guidelines. The Asset Survey included the Water Treatment Plant (WTP), water booster station, two (2) finished water storage tanks, one (1) interconnect, and approximately 28 miles of water main distribution pipe. Information was derived from various sources including Tapping Fee calculations, record drawings, site visits, discussions with Borough staff, and other sources to provide an inventory and listing.

2.0 – PURPOSE OF REPORT

The purpose of this report is to "conduct an assessment of tangible assets of the selling utility" per the requirements of PA Act 12 (HB1329). The engineering assessment followed the practices and procedures of the Public Utility Commission and National Association of Regulatory Utility Commissioners (NARUC) Uniform Systems of Accounts. The engineering assessment report documents the approximate age and original costs of the Authority's assets that will be used to develop an appraisal of the system. The engineering assessment does not include vehicles.

This report contains the following:

- Inventory of the used and useful depreciable assets to be transferred, compiled by year and account.
- List of non-depreciable assets such as land and rights-of-way.
- Review of system components, plans and reports of key facilities.
- Assessment of the identified assets, including approximate age.
- Determination and/or establishment of an original cost of construction for each asset.
- Grants and dedicated facilities.
- Known and estimated overhead costs that includes engineering design, permitting, legal, bidding, construction administration and construction observation costs.

3.0 – SYSTEM DESCRIPTION

The Authority under permit PWSID 7220036 provides water to approximately 6,311 consumers through 2,421 metered service connections. The existing water system consists of two components, the water treatment plant (WTP) and the storage and distribution system.

The Authority's WTP obtains all water from a raw water intake located in the Susquehanna River in Dauphin County. Constructed in 1973, the WTP serves the community of Steelton and some customers in Swatara Township. While the WTP's permitted capacity is 3.0 MGD (2,083 gpm), the WTP maintains a typical daily production rate of 1.6 to 2.4 MGD (1,111 to 1,670 gpm). The WTP is staffed 24 hours per day however, the time of operation is typically 13 to 16 hours per day, 7 days per week. The existing treatment process at the WTP currently consists of potassium permanganate for disinfection by-products (DBP) control, alum for coagulation, flash mixing, two upflow sludge blanket clarifiers for flocculation and sedimentation, four multimedia filters and chlorine

disinfection. A polymer is also added to the flash mixer to aid in clarifier blanket formation. The existing filtration system was manufactured by INFILCO and was originally installed in 1973. Various upgrades to the filtration system have been performed over the years with the most recent upgrades being completed in 2017 (new clearwell, for DBP removal).

Two (2) vertical turbine raw water pumps with variable frequency drives (VFD's) convey the water from the raw water pumping station to the up-flow clarifier rapid mix tank. From there, the water flows by gravity through the treatment process into the existing clearwell. Two (2) centrifugal finished water pumps with VFD's convey the water from the clearwell to the distribution system. Production at the WTP typically ends when the finished water storage tanks have been filled to their maximum operating levels. During the hours when the WTP is not in production, the distribution system is fed from the finished water storage tanks.

The existing Authority distribution system generally consists of a network of water distribution piping including approximately 28 miles of pipe ranging from 4 inch diameter to 20 inch diameter, one water booster station, two - 2 million gallon (MG) finished water storage tanks, and two interconnections with Suez that provide water service to various residential, commercial, institutional, and industrial properties throughout the Borough. The interconnect metering chamber with Suez, located on S. 19th Street, is owned by the Authority. The interconnect pumping station with Suez, located near the finished water storage tanks, is owned by Suez.

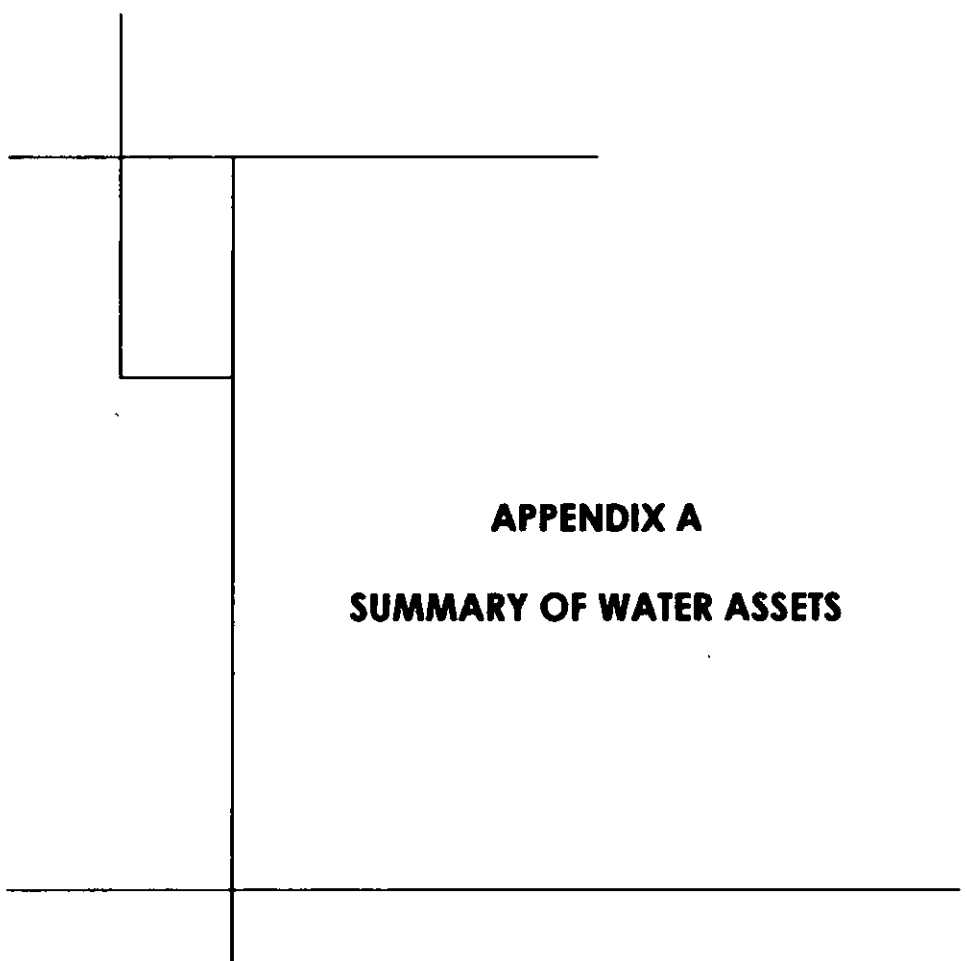
Table 3.1 provides a breakdown of the water main distribution pipe by size and Table 3.2 provides a breakdown of the water main distribution pipe by material. The estimated linear foot of water pipe shown was obtained from a WaterCAD model that consists of a GIS map performed in 2003 and information collected between 2003 through 2016 from Steelton Borough Authority staff. HRG can not confirm the accuracy of the information. To the best of HRG knowledge, the approximate lengths are the most accurate data available at the time of preparing this report. The total length does not include abandoned pipe, private pipe, or fire hydrant laterals, etc.

Table 3.1 Water Main Distribution Pipe by Size

Water Main Size (in.)	Approximate Length (ft.)
4	12,080
6	40,514
8	51,779
10	13,017
12	23,142
16	3,445
20	1,511

Table 3.2 Water Main Distribution Pipe by Material

Water Main Material	Approximate Length (ft.)
Cast Iron Pipe	75,659
Ductile Iron Pipe	69,829



APPENDIX A
SUMMARY OF WATER ASSETS

Summary of Water Assets

Category	Original Cost
Construction Cost:	
Original 1973 Construction Cost ^[1]	\$2,527,558
Land Assets	\$31,305
Water Treatment Plant ^[2]	\$5,488,926
Distribution System ^[3]	\$8,465,914
Trended Cost Back to 1973 ^[4]	(\$717,500)
Total	\$15,796,203
Estimated and Known Overhead Cost: ^[5]	
Original 1973 Construction Cost	\$606,614
Land Assets	\$939
Water Treatment Plant	\$1,150,757
Distribution System	\$1,305,262
Trended Cost Back to 1973	(\$147,431)
Total	\$2,916,141
Grants and Dedications:	
Grant: Power Generator Equipment ^[6]	\$545,102
Dedication: UGIES Water main ^[7]	\$481,665
Total	\$1,026,767
Total	\$19,739,111

Footnotes:

- [1] The original construction cost of the water treatment plant and water storage facilities built in 1973 was \$2,527,558.
- [2] Per Note 1 above, the water treatment plant was constructed as part of a larger project. The original cost shown for water treatment plant is the original cost added to the system since 1973.
- [3] The estimated linear foot of water pipe shown was obtained from a WaterCAD model that consists of a GIS map performed in 2003 and information collected between 2003 through 2016 from Steelton Borough Authority staff. HRG can not confirm the accuracy of the information. To the best of HRG knowledge, the approximate lengths are the most accurate data available at the time of preparing this report. The total length does not include abandoned pipe, private pipe, or fire hydrant laterals, etc.
- [4] Per Notes 1 and 2 above, so that costs are not counted twice, replaced equipment costs were trended back to 1973 and subtracted from the \$2,527,558 project cost. The amount shown is the sum of all of the trended cost deductions for replacements. Refer to the detail pages for additional information. The ENR index was used to trend the cost to 1973.
- [5] Overhead costs includes engineering design, permitting, legal, construction administration, construction observation and financing.
- [6] Item shown in Appendix C under generator with NARUC Code 310.
- [7] Item shown in Appendix G under 'Installation Years 2011-2018', Item 3.



APPENDIX B
LAND AND LAND RIGHTS ASSETS

BARBC Code	Asset	Parcel Number	Site Address	Acres	Purchase Date	Original Cost	Overhead Cost	Source ⁽¹⁾	Notes	
303	Land and Land Rights	61-013-047	304 Christian Street	0.03	N/A	N/A			(1)	
		61-013-048	302 Christian Street	0.03	N/A	N/A				
		61-014-025	Christian Street	0.37	1972	\$1		Book A, Vol 59, Page 661		
		61-014-026	282 Christian Street	0.03	1972	\$6,700	\$201	(5) Book X, Vol 57, Page 536		
		61-014-027	260 Christian Street	0.03	1972	\$8,000	\$242	(5) Book V, Vol 57, Page 646		
		61-014-028	256 Christian Street	0.03	1972	\$5,000	\$190	(5) Book M, Vol 58, Page 368		
		61-014-029	254 Christian Street	0.03	1972	\$4,900	\$195	(5) Book W, Vol 57, Page 335		
		61-014-030	244 and 246 Christian Street	0.09	1972	\$5,100	\$153	(5) Book T, Vol 57, Page 473		
		63-045-115	Reserve Road	2.34	1971	\$1		Book S, Vol 56, Page 140		(2)
		63-045-124	Linker Road	1.14	1965	\$1		Book 675 Page 421		(3)
303	Right-of-way	57-029-025	Water line right-of-way (southern side of south front shed between R Street and I Street)	0.56	2001	\$1		Book 4002, Page 336		
303	Easement	52-043-061	Water line easement	0.26	2010	\$1		Instrument # 2211, 01550		
Total						\$31,308	\$729			

Footnotes:

- (1) These parcels are owned by Douglas County Redevelopment Authority. Components of the water treatment plant are located on these parcels including the water intake, screen, clarifier and aeration.
- (2) Two water storage tanks are currently located on this property.
- (3) This is an open parcel that is located adjacent to the Reserve Road parcel discussed in Note 3.
- (4) The Authority may have other land assets not shown in the above table.
- (5) Estimated at 3% of original cost for legal expenses.



APPENDIX C
WATER TREATMENT PLANT ASSETS

NAIUC Code	Description	Original Year Installed	Age	Construction Cost		Original Cost			
				Original Cost	Cost Deduction for Traveling Back to 1973 ¹	Original Cost	Cost Deduction for Traveling Back to 1973 ¹		
Water Treatment Plant									
Water Treatment Plant Building									
	Building	Main Floor Approx. 8,470 sq. ft.; Lower Floor Approx. 5,940 sq. ft.; Chemical Floor Approx. 2,020 sq. ft.	1973	45	See Footnote 1				
Raw Water Pumping Station									
304	Water intake structure	Concrete	1973	45	See Footnote 1				
309	Water intake line	1-16" I.D., 36' Cast Iron Pipe 2-24" I.D., 24' Cast Iron Pipe 1-24" Gate Valve 17.5x16x31 Concrete Structure 17.5x16x31 Cast Structure	1973	45	See Footnote 1				
304	Well Wall	1-24"x24" Sluice Gate (Floor Stand, Electric Operator)	1973	45	See Footnote 1				
311		2- Vertical Turbine Pumps w/ VFDs; 40 HP/2100 gpm							
334		1- Raw Water							
304		2- 12" Butterfly Valves (Floor Stand with Hand Wheel)							
304		1- 10" Butterfly Valve (Electric Operator)							
320	1- 12" Aluminum Ladder and Gate with Walkway								
320	2- 12" Check Valve								
304	Building	Hydroline Travelling Screen with Compactor	2010 ¹	8	See Footnote 2				
		17.5x16x31 Cast Structure	1973	45	See Footnote 1				
		1- Roof Eave	2014 ¹	4	\$11,000	(\$2,724)	\$800	PI	(\$170)
		2- Roof Dome							
		2- Aluminum Windows							
		1- Single Metal Door							
		Aluminum Handrail							
		4- 50.000 Aluminum Holes							
		1- Single Aluminum Hatch							
		Black Mold and Ventilation Wiring and Conduit							
Chemical Treatment									
320	Liquified Gas Chlorine System	4- 150 lb. Cylinder 3- Gas Chlorine (Frag Model 200, Capacity 200 Lbs) Chemical Feed Lines and Appurtenances	1973	45	See Footnote 1				
320	Liquid Alum System	2- 2,000 Gallon Fiberglass Tanks	1973	45	See Footnote 1				
		1- Peristaltic Pump (Blue White Flow-Pro)	2014 ¹	2	\$3,700	(\$673)	\$296	PI	(\$54)
320	Non-Ionic Polymer System	Chemical Feed Lines and Appurtenances	1973	45	See Footnote 1				
		1- Peristaltic Pump (Blue White Flow-Pro)	2014 ¹	1	\$3,700	(\$653)	\$296	PI	(\$52)
320	Dry Lime System	Chemical Feed Lines and Appurtenances	2012 ¹	3	\$14,000	(\$2,444)	\$1,120	PI	(\$212)
		1- Volumetric Dry Feeder (OMEGA-SE Model 2147, 250 Lbs)	1973	45	See Footnote 1				
320	Potassium Permanganate System	Chemical Feed Lines and Appurtenances	1973	45	See Footnote 1				
		1- Volumetric Dry Feeder (OMEGA-SE Model CPX 1000, 250 Lbs)	2004 ¹	14	\$15,000				
320	Soda Ash System	Chemical Feed Lines and Appurtenances	2014 ¹	2	\$14,724	(\$2,499)	\$1,178	PI	(\$214)
		1- Volumetric Dry Feeder (OMEGA-SE Model CPX 1000, 250 Lbs)	1973	45	See Footnote 1				
Recid (Rash) Filter									
304	Structure	7' x 7' x 4' Concrete Structure (2x13 Gallon)	1973	45	See Footnote 1				
		2- 4 x 1 1/2" Aluminum Holes							
		2- 12" Sluice Gate with Floor Stand							
320	Mixer	1- Vertical Mixer	2018 ¹	0	\$1,200	(\$173)	\$80	PI	(\$14)
Clarification System									
304	Structure	2- Circular Clarifiers; 37' Radius x 17' Deep (137,455 Gallon, each)	2010	8	\$2,959,000	(\$67,244)	\$421,390	PI	(\$133,824)
311		Pumps	2- Sludge Pumps (58/100gpm/28 TDH/3HP)	2012	6	\$8,000	(\$1,424)	\$640	
334	Meters and Meter Installation	2- Flow Meters (7" Mag Meter)	2013 ¹	3	\$4,000				
Filtration System									
320	WFF Equipment	4- Dual Media Filters; Anthracite/Sand (136 sq. ft., each)	2010 ¹	8	See Footnote 2				
311		Pumps	1- Filter Backwash System (Single Stage Backwash System)	1973	45	See Footnote 1			
		1- Filter Vacuum Pump (Nash, Single Stage 3HP)	2014 ¹	4	\$7,000	(\$1,468)	\$606	PI	(\$117)
Chemwell System									
304	Structure	Concrete Riffled Tank (7x17' Gallon, max.)	1973	45	See Footnote 1		\$20,457	PI	
311	Pumps	2- Centrifugal Pumps w/ VFDs (7.5 HP/2.533gpm)							

NAEAC Code	Description	Original Year Installed	Age	Construction Cost		Original Cost	
				Original Cost	Cost Deduction for Trending back to 1973 ⁽¹⁾	Original Cost	Cost Deduction for Trending back to 1973 ⁽¹⁾
334	Meters and Meter Installation	1 - Row Meter					
Cleaverly Booster System							
304	Structure	1 - 40 Diameter Circular Concrete Baffled Tank (240,000 Gallon)					
311	Pumps	2 - Centrifugal Pumps w/ 27.25 HP (7/7/2000)					
334	Meters and Meter Installation	1 - Pump Control System					
309	Piping and Appurtenances	17 - Ductile Iron Process Piping, fittings, and Valves	2017 ⁽²⁾	1	\$2,104,802		\$444,060 ⁽¹¹⁾
309	Other Plant and Miscellaneous Equipment	10 - Ductile Iron Process Piping, fittings, and Valves					
309	Other Plant and Miscellaneous Equipment	Rectical and Structural Appurtenances					
Backwash System							
304	Structure	1 - Backwash Pumping Station Wet Well	1973	45	See footnote 1		
311	Pumps	4 - Concrete Backwash Tanks (34,000 Gallon, each)					
		2 - Submersible Backwash Pumps					
		2 - Submersible Sludge Pumps (1447.5 HP)	2016 ⁽³⁾	0	\$4,100	(\$709)	\$323 ⁽⁴⁾
Generator							
310	Power Generation Equipment	1 - 650 kW Diesel Generator	2015 ⁽⁵⁾	3	See Footnote 5		
		Electrical and Structural Appurtenances					
Consolidation Energy							
339	Other Plant and Miscellaneous Equipment	Energy Efficiency Upgrade	2009 ⁽⁶⁾	9	\$250,000 ⁽⁷⁾	(\$95,280)	\$154,720 ⁽⁸⁾
Miscellaneous							
347	Miscellaneous Equipment	1 - Thyson Krupp Evaporator improvement	2015 ⁽⁹⁾	3	\$54,000 ⁽¹⁰⁾	(\$10,575)	\$43,425 ⁽¹¹⁾
Lab Equipment							
344	Laboratory Equipment	HACH DR 6000 UV Spectrometer	2017 ⁽²⁾	1	\$5,600		\$560 ⁽¹¹⁾
		Chem Trac Lab Charge Analyzer			\$13,000		\$1,240 ⁽¹¹⁾
Instruments/Analyzers							
339	Other Plant and Miscellaneous Equipment	4 - HACH Turbiditymeters	2015 ⁽⁹⁾	3	\$2,700	(\$812)	\$1,888 ⁽¹¹⁾
		3 - HACH CL 17 Analyzers	2017 ⁽²⁾	1	\$3,900	(\$618)	\$3,282 ⁽¹¹⁾
		3 - In-stream pH sensors	2015 ⁽⁹⁾	3	\$2,500	(\$472)	\$2,028 ⁽¹¹⁾
Total					\$8,498,124	(\$917,800)	\$7,580,324

Footnote:

- (1) The original construction cost of the water treatment plant, booster station, and finished water storage tanks built in 1973 was \$2,527,258. The original construction cost per component is not known.
- (2) Component included in the \$2,959,000 construction cost of the 2010 water treatment plant improvement project. Work include reworking of the clarifier and filter units. This cost is shown in the "Clarification System" category.
- (3) Work included new 200 HP VFDs and motors, new 40 HP VFDs and motors, new motor control center (MCC), and new lighting.
- (4) New control system added.
- (5) The generator equipment was installed in 2015 at a cost of \$545,802 and was fully paid for by grant funding. The grant is listed in the Summary of Water Assets.
- (6) Original component included in the 1973 water treatment plant construction cost, but has since been replaced.
- (7) New construction. Component not part of the 1973 water treatment plant construction.
- (8) So that costs are not counted twice, the replacement component costs (identified by footnote 4) were trended back to 1973 and subtracted from the 1973 water treatment plant construction cost of \$2,527,258. Refer to this summary page for the deduction total. The EIR index was used to trend the cost to 1973.
- (9) Estimated at 68% of original cost for engineering design.
- (10) Estimated at 14% of construction cost that consists of 8% for engineering design, 4% for permitting, 2% for bidding, 3% construction administration and 4% for construction observation.
- (11) Actual engineering cost.

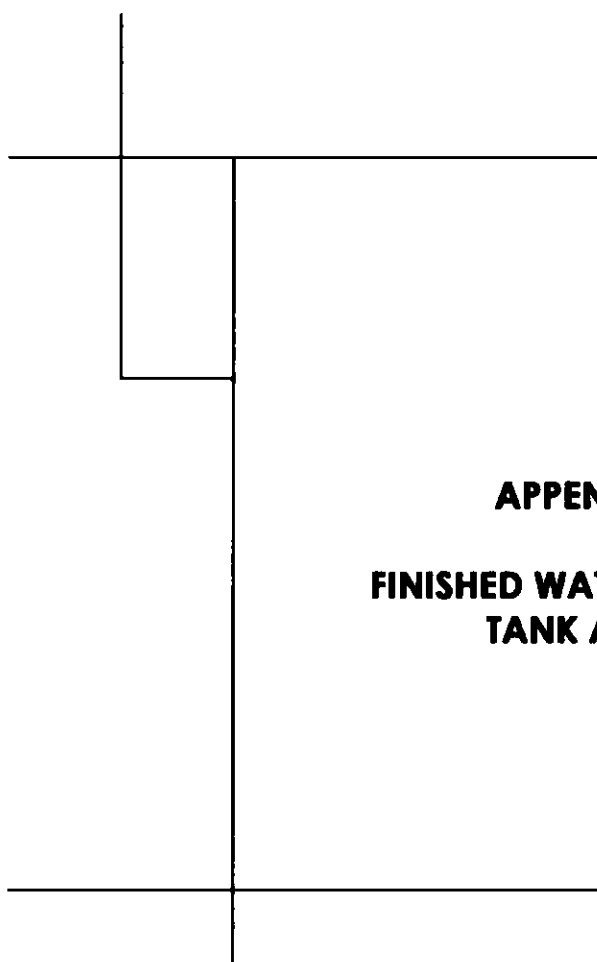


APPENDIX D
BOOSTER STATION ASSETS

NARUC Code	Description		Original Year Installed	Age	Original Cost
Booster Pump Station					
304	Building	18' x 16' CMU Structure w/ Brick Facade, with 2-8' x 7'-4" x 6'-8" Dry Pit	1973	45	See Footnote 1
		1 - Door			
		3 - Windows			
311	Pumps	2 - Centrifugal Pump with VFDs (Aurora, 15HP/480GPM)	1973		See Footnote 1
309	Piping and Appurtenances	8" Cast Iron Piping and Fittings	1973		See Footnote 1
		4" Cast Iron Piping and Fittings			
		2 - 8" Butterfly Valve			
		1 - 8" Check Valve			
		2 - 6" Butterfly Valve			
		2 - 4" Check Valve			
		2 - 4" Butterfly Valve			
348	Other	Electrical and HVAC Wiring and Controls	1973	See Footnote 1	

Footnotes:

[1] The original construction cost of the water treatment plant, booster station, and finished water storage tanks built in 1973 was \$2,527,558. The original construction cost per component is not known.



APPENDIX E
FINISHED WATER STORAGE
TANK ASSETS

NARUC Code	Description		Original Year Installed	Age	Original Cost
Finished Water Storage Tank					
330	Distribution Reservoirs	2 - 2 MG Steel Tanks (110' Diameter x 28' Height)	1973	45	See Footnote 1
		20" Screened Roof Vent (each)			
		Cage Ladder (each)			
		8" Steel Overflow Pipe (each)			
		24" Roof Hatch (each)			
24" Shell Hatch (each)					
Valve Pits					
304	Structure	2 - 10' x 7'-6" x 6'-6" Concrete Valve Pit	1973	45	See Footnote 1
		5' x 2'-6" Double Leaf Hatch (each)			
		12" Ductile Iron Influent/Effluent Piping (each)			
		6" Cast Iron Drain Piping (each)			
		2" Sump			
		1 - 12" Butterfly Valve (each)			
1 - 6" Butterfly Valve (each)					

Footnotes:

- {1} The original construction cost of the water treatment plant, booster station, and finished water storage tanks built in 1973 was \$2,527,558. The original construction cost per component is not known.

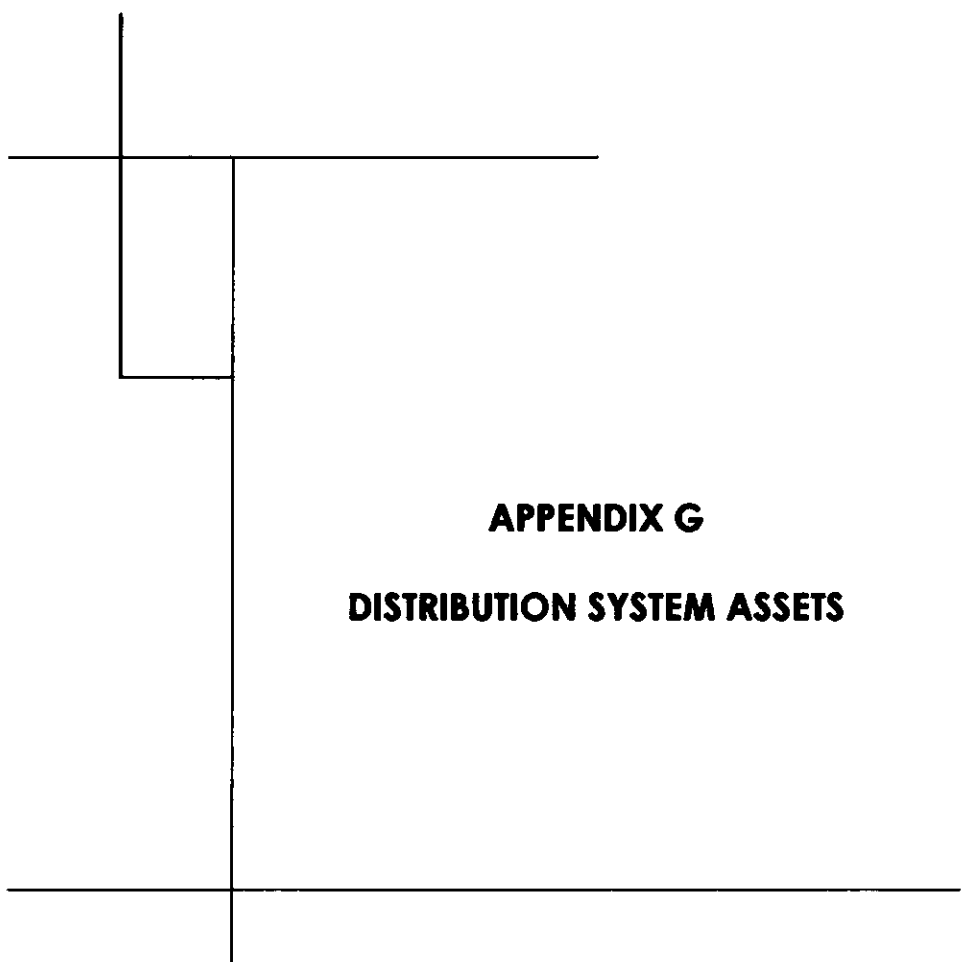


APPENDIX F
INTERCONNECTION ASSETS

NARUC Code	Description		Original Year Installed	Age	Original Cost
Interconnection with Suez (3. 19th Street)					
304	Structure	15'-8.5" x 6' x 6' Concrete Metering Chamber	2010	8	See Footnote 1
		1 - 54" x 48" Access Hatch			
309	Piping and Appurtenances	6" Ductile Iron Piping and Fittings			
		2 - 6" Gate Valve			
		1 - 6" Flow Control Valve (Cla-Val; Model 4001)			
336	Backflow Prevention Devices	1 - 6" Backflow Preventer (Watts; Model Series 709)			
334	Meters	1 - 6" Flow Meter (Sensus)			
348	Other	Electric Unit Heater			

Footnotes:

- (1) Component included in the \$2,959,000 construction cost of the water treatment plant improvement project. Work include refurbishing of the clarifier and filter units. This cost is shown in the Water Treatment Plant Assets "Clarification System" category.



APPENDIX G
DISTRIBUTION SYSTEM ASSETS

Distribution System Assets ⁽¹⁾

Installation Years 1903 - 1910 ⁽²⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	1,106	L.F.	\$ 383	111	
	2	6" Ductile Iron Pipe	5,798	L.F.	\$ 2,261	111	
	3	8" Ductile Iron Pipe	3,720	L.F.	\$ 2,095	111	
	4	10" Ductile Iron Pipe	4,523	L.F.	\$ 3,528	111	
	5	4" Gate Valve	5	Ea.	\$ 50	111	
	6	6" Gate Valve	16	Ea.	\$ 218	111	
	7	8" Gate Valve	9	Ea.	\$ 193	111	
	8	10" Gate Valve	4	Ea.	\$ 139	111	
335	9	Fire Hydrant Assembly	18	Ea.	\$ 1,131	111	
354	10	Excavation And Aggregate Backfill	15,147	L.F.	\$ 3,938	111	
	11	Surface Restoration	15,147	L.F.	\$ 5,513	111	
Total					\$ 19,449	\$ 1,556 ⁽¹⁾	

Installation Years 1911 - 1920 ⁽²⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	374	L.F.	\$ 194	102	
	2	6" Ductile Iron Pipe	1,068	L.F.	\$ 623	102	
	3	8" Ductile Iron Pipe	733	L.F.	\$ 617	102	
	4	12" Ductile Iron Pipe	5,837	L.F.	\$ 7,183	102	
	5	4" Gate Valve	3	Ea.	\$ 45	102	
	6	6" Gate Valve	6	Ea.	\$ 122	102	
	7	8" Gate Valve	1	Ea.	\$ 32	102	
	8	12" Gate Valve	16	Ea.	\$ 1,145	102	
335	9	Fire Hydrant Assembly	18	Ea.	\$ 1,690	102	
354	10	Excavation And Aggregate Backfill	8,012	L.F.	\$ 3,113	102	
	11	Surface Restoration	8,012	L.F.	\$ 4,359	102	
Total					\$ 19,123	\$ 1,530 ⁽¹⁾	

Installation Years 1921 - 1930 ⁽²⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	6,414	L.F.	\$ 4,798	92	
	2	6" Ductile Iron Pipe	6,934	L.F.	\$ 5,836	92	
	3	8" Ductile Iron Pipe	2,050	L.F.	\$ 2,492	92	
	4	10" Ductile Iron Pipe	420	L.F.	\$ 707	92	
	5	12" Ductile Iron Pipe	3,697	L.F.	\$ 6,568	92	
	6	4" Gate Valve	26	Ea.	\$ 559	92	
	7	6" Gate Valve	28	Ea.	\$ 825	92	
	8	8" Gate Valve	10	Ea.	\$ 463	92	
	9	10" Gate Valve	3	Ea.	\$ 224	92	
	10	12" Gate Valve	10	Ea.	\$ 1,033	92	
335	11	Fire Hydrant Assembly	25	Ea.	\$ 3,390	92	
354	12	Excavation And Aggregate Backfill	19,515	L.F.	\$ 10,949	92	
	13	Surface Restoration	19,515	L.F.	\$ 15,329	92	
Total					\$ 53,173	\$ 4,254 ⁽¹⁾	

Distribution System Assets ⁽¹⁾

Installation Years 1941 - 1950 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	1,299	L.F.	\$ 1,730	72	
	2	4" Gate Valve	3	Ea.	\$ 115	72	
335	3	Fire Hydrant Assembly	1	Ea.	\$ 241	72	
354	4	Excavation And Aggregate Backfill	1,299	L.F.	\$ 1,298	72	
	5	Surface Restoration	1,299	L.F.	\$ 1,817	72	
Total					\$ 5,202		\$ 416 ⁽¹⁾

Installation Years 1951 - 1960 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	10" Ductile Iron Pipe	618	L.F.	\$ 3,460	62	
354	2	Excavation And Aggregate Backfill	618	L.F.	\$ 1,153	62	
	3	Surface Restoration	618	L.F.	\$ 1,615	62	
Total					\$ 6,228		\$ 498 ⁽¹⁾

Installation Years 1961 - 1970 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	267	L.F.	\$ 1,019	52	
	2	6" Ductile Iron Pipe	258	L.F.	\$ 1,108	52	
	3	4" Gate Valve	2	Ea.	\$ 219	52	
	4	6" Gate Valve	2	Ea.	\$ 301	52	
354	5	Excavation And Aggregate Backfill	525	L.F.	\$ 1,503	52	
	6	Surface Restoration	525	L.F.	\$ 2,104	52	
Total					\$ 6,255		\$ 500 ⁽¹⁾

Installation Years 1971 - 1980 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	2,269	L.F.	\$ 19,486	42	
	2	6" Ductile Iron Pipe	12,362	L.F.	\$ 119,436	42	
	3	8" Ductile Iron Pipe	11,528	L.F.	\$ 160,880	42	
	4	10" Ductile Iron Pipe	6,492	L.F.	\$ 125,446	42	
	5	12" Ductile Iron Pipe	3,412	L.F.	\$ 69,593	42	
	6	16" Ductile Iron Pipe	462	L.F.	\$ 11,407	42	
	7	4" Gate Valve	12	Ea.	\$ 2,963	42	
	8	6" Gate Valve	41	Ea.	\$ 13,864	42	
	9	8" Gate Valve	36	Ea.	\$ 19,130	42	
	10	10" Gate Valve	10	Ea.	\$ 8,588	42	
	11	12" Gate Valve	3	Ea.	\$ 3,559	42	
	12	16" Gate Valve	1	Ea.	\$ 3,650	42	
335	13	Fire Hydrant Assembly	38	Ea.	\$ 59,150	42	
354	14	Excavation And Aggregate Backfill	36,525	L.F.	\$ 235,259	42	
	15	Surface Restoration	36,525	L.F.	\$ 329,363	42	
Total					\$ 1,181,775		\$ 165,449 ⁽²⁾

Distribution System Assets ⁽¹⁾

Installation Years 1981 - 1990 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	4" Ductile Iron Pipe	351	L.F.	\$ 5,441	32	
	2	6" Ductile Iron Pipe	5,398	L.F.	\$ 94,135	32	
	3	8" Ductile Iron Pipe	762	L.F.	\$ 19,194	32	
	4	12" Ductile Iron Pipe	1,662	L.F.	\$ 61,187	32	
	5	16" Ductile Iron Pipe	1,466	L.F.	\$ 65,334	32	
	6	4" Gate Valve	4	Ea.	\$ 1,783	32	
	7	6" Gate Valve	17	Ea.	\$ 10,376	32	
	8	8" Gate Valve	5	Ea.	\$ 4,796	32	
	9	12" Gate Valve	8	Ea.	\$ 12,401	32	
	10	16" Gate Valve	8	Ea.	\$ 52,704	32	
335	11	Fire Hydrant Assembly	13	Ea.	\$ 36,525	32	
354	12	Excavation And Aggregate Backfill	9,639	L.F.	\$ 112,063	32	
	13	Surface Restoration	9,639	L.F.	\$ 156,888	32	
Total					\$ 632,827		\$ 88,596 ⁽²⁾

Installation Years 1991 - 2000 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	6" Ductile Iron Pipe	7,301	L.F.	\$ 167,085	22	
	2	8" Ductile Iron Pipe	3,867	L.F.	\$ 127,829	22	
	3	6" Gate Valve	32	Ea.	\$ 25,631	22	
	4	8" Gate Valve	18	Ea.	\$ 22,656	22	
335	5	Fire Hydrant Assembly	23	Ea.	\$ 84,802	22	
354	6	Excavation And Aggregate Backfill	11,168	L.F.	\$ 170,388	22	
	7	Surface Restoration	11,168	L.F.	\$ 238,543	22	
Total					\$ 806,934		\$ 117,171 ⁽²⁾

Installation Years 2001 - 2010 ⁽¹⁾							
NARBC Code	Item No.	Description	Est. Qty.	Unit	Estimated Original Cost ⁽¹⁾	Age	Overhead Costs
331	1	6" Ductile Iron Pipe	555	L.F.	\$ 17,269	12	
	2	8" Ductile Iron Pipe	23,914	L.F.	\$ 1,074,768	12	
	3	10" Ductile Iron Pipe	964	L.F.	\$ 59,989	12	
	4	12" Ductile Iron Pipe	8,534	L.F.	\$ 560,564	12	
	5	16" Ductile Iron Pipe	1,517	L.F.	\$ 120,624	12	
	6	6" Gate Valve	2	Ea.	\$ 2,178	12	
	7	8" Gate Valve	96	Ea.	\$ 164,284	12	
	8	10" Gate Valve	2	Ea.	\$ 5,531	12	
	9	12" Gate Valve	19	Ea.	\$ 52,549	12	
	10	16" Gate Valve	4	Ea.	\$ 47,017	12	
335	11	Fire Hydrant Assembly	55	Ea.	\$ 275,708	12	
354	13	Excavation And Aggregate Backfill	35,454	L.F.	\$ 735,421	12	
	14	Surface Restoration	35,454	L.F.	\$ 1,029,589	12	
Total					\$ 4,145,491		

Distribution System Assets ⁽¹⁴⁾

Installation Years 2011 - 2018 ⁽¹⁾							
MARUC Code	Item No.	Description	Est. Qty.	Unit	Actual Costs	Age	Overhead Costs
331	1	2016 Pine/Harrisburg Streets Replacement Project ⁽¹⁾	-	-	\$ 1,386,505	2	228,174 ⁽¹³⁾
	2	2017 Mulberry/Bessemer Replacement Project ⁽¹⁾	-	-	\$ 172,952	1	75,890 ⁽¹³⁾
	3	2017 Uges Water Main Installation Project ⁽¹⁰⁾	-	-	\$ -	1	40,900 ⁽¹³⁾
Total					\$ 1,559,457		344,924
Total					\$ 8,445,914		\$ 1,305,242

Footnotes:

- [1] Estimated using HRG's projects with known costs or using RSMears Data. Original cost calculated by determining construction cost in 2018 dollars and using the ENR's historical cost index to adjust the cost to the installation year. Information provided spanned a decade as shown and; therefore, average ENR index for that given decade was used.
- [2] New water main construction. Lengths do not include water main pipe that has been replaced.
- [3] 33,147 feet of water main was new construction, 3,378 feet of water main was replaced.
- [4] 8,833 feet of water main was new construction, 806 feet of water main was replaced.
- [5] 1,156 feet of water main was new construction, 10,091 feet of water main was replaced.
- [6] 2,898 feet of water main was new construction, 32,586 feet of water main was replaced.
- [7] 1,783 feet of water main was new construction, 5,773 feet of water main was replaced.
- [8] The 2016 Pine/Harrisburg streets water project included replacing approximately 5,205 feet of 8-inch diameter water main. Majority of the project was performed in PennDOT's right-of-way. Also, approximately \$312,630 of water service line replacement was part of this project. The \$312,630 is not included in the dollar amount shown in the table because the water service lines are owned by the property owners. This project also included sanitary sewer work but the cost shown in the table is only for the water system work. The costs shown in the table does not include pavement restoration because the paving was performed by PennDOT as part of their paving project.
- [9] The 2017 Mulberry/Bessemer water project included replacing approximately 840 feet of 6-inch diameter water main. This project also included sanitary sewer work, but the cost shown in the table is only for the water system work. The cost includes pavement restoration.
- [10] The 2017 UGIES project included installing approximately 1,511 feet of 20-inch water main. The actual cost is not known, but it is estimated at \$481,665. This project was built and paid for by the developer and dedicated to the Authority.
- [11] Estimated at 8% of original cost for engineering design.
- [12] Estimated at 14% of original cost that consists of 8% for engineering design, 4% for permitting and 2% for bidding.
- [13] Actual engineering expense.
- [14] The estimated linear foot of water pipe shown was obtained from a WaterCAD model that consists of a GIS map performed in 2003 and information collected between 2003 through 2016 from Steelton Borough Authority staff. HRG can not confirm the accuracy of the information. To the best of HRG knowledge, the approximate lengths are the most accurate data available at the time of preparing this report. The total length does not include abandoned pipe, private pipe, or fire hydrant laterals, etc.

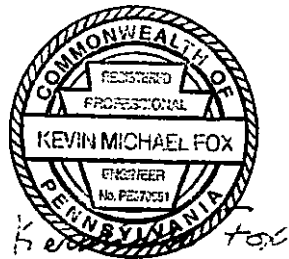
Response 4.b.

Steelton Borough Authority
Borough of Steelton, Dauphin County, PA
Water System Assets

Utility Plant Held for Future Use:

Comment: Provide an inventory of plant held for future use or a signed and sealed statement from the engineer in responsible charge of the Engineer's Assessment that the water system does not contain plant held for future use.

Answer: To the best of my knowledge the parcels that will be transferred from Steelton Borough Authority to the buyer does not contain any plant held for future use.



1-11-2019

66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019

Missing Application Information

5. Checklist Item No. 18.a – Please provide evidence (i.e., copies of rules and rates, resolutions, and/or ordinances) that confirms the current rates charged by Steelton for metered industrial; metered private fire protection; unmetered private fire protection; public and private hydrants; and public fire protection customers, apart from the rates applicable to UGI Energy Services, LLC, identified in the Application’s Appendix A-18-a. If these rates are lower than those proposed by PAWC after closing or if rates are not charged, PAWC’s pro forma tariff in the Application’s Appendix A-13 will need to be revised to match Steelton’s existing rates.

Response: The current rates charged by Steelton for all classes, including metered industrial customers, are provided in Appendix A-18-a. See revised *pro forma* Tariff Supplement No. XX to Tariff Water PA P.U.C. No. 5 of PAWC, Water Division, attached and identified as Appendix A-13 Revised, correcting Original Page 16.7 to remove language excepting Industrial. A separate redline version of the *pro forma* Tariff Supplement No. XX to Tariff Water PA P.U.C. No. 5 of PAWC, Water Division, is also included with the response to indicate the revisions made.

Steelton does not currently charge separate rates for metered private fire protection, unmetered private fire protection, public and private hydrants, and public fire protection customers, apart from the rates applicable to UGI Energy Services, LLC. However, Steelton’s Board has approved by resolution, pursuant to Section 6.04(c) of the APA, that PAWC will have the option post-closing to adopt public fire hydrant rates, and unmetered private fire service rates and metered private fire service rates, consistent with PAWC’s tariffed Zone 1 rates. The Commission recently approved a similar agreement in connection with the acquisition by SUEZ Water Pennsylvania Inc. of the Township of Mahoning water system pursuant to 66 Pa. C.S. §1102(a) and 66 Pa. C.S. §1329 at Docket Nos. A-2018-3003517 and A-2018-3003519 (Order entered December 28, 2018). PAWC respectfully submits that PAWC’s adoption of public and/or private fire service rates is a substantive legal issue to be determined during the course of this proceeding to approve the Application and is not one of perfection of the application filing requirements.

Supplement No. xx to
Tariff Water-PA P.U.C. No. 6

PENNSYLVANIA-AMERICAN WATER COMPANY
(hereinafter referred to as the "Company")
D/B/A
Pennsylvania American Water

RATES, RULES AND REGULATIONS

**GOVERNING THE DISTRIBUTION AND SALE OF
WATER SERVICE**

IN CERTAIN MUNICIPALITIES AND TERRITORIES LOCATED ADJACENT THERETO IN:

ADAMS, ALLEGHENY, ARMSTRONG, BEAVER, BERKS, BUCKS,
BUTLER, CENTRE, CHESTER, CLARION, CLEARFIELD, CLINTON, COLUMBIA,
CUMBERLAND, DAUPHIN, FAYETTE, INDIANA, JEFFERSON, LACKAWANNA,
LANCASTER, LAWRENCE, LEBANON, LUZERNE, MCKEAN, MONROE, MONTGOMERY,
NORTHAMPTON, NORTHUMBERLAND, PIKE, SCHUYLKILL, SUSQUEHANNA,
UNION, WARREN, WASHINGTON, WAYNE, AND YORK COUNTIES.

Issued: xxxxx xx, xxxx

Effective: xxxxx xx, xxxx

Issued by:
Jeffrey McIntyre, President
Pennsylvania American Water
800 West Hersheypark Drive
Hershey, PA 17033

<https://www.amwater.com/paaw/>

The tariff authorizes Pennsylvania-American Water Company to furnish water service to the public in the Borough of Steelton and a portion of Swatara Township. (Refer to pages 2, 4, 5, 9, 16.7 and 31.1)

NOTICE

PENNSYLVANIA-AMERICAN WATER COMPANY

LIST OF CHANGES

This tariff supplement authorizes Pennsylvania American Water Company to begin to offer or furnish water service to the public in the Borough of Steelton and a portion of Swatara Township as ordered by the Pennsylvania Public Utility Commission at Docket No. A-xxxx - xxxxxx entered xxxxx xx, xxxx.

PENNSYLVANIA-AMERICAN WATER COMPANY

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(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

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(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

TERRITORIES SERVED

(By State Region and Company Water District)
(All territories are subject to Rate Zone 1 unless otherwise noted)

Central Pennsylvania

Berwick District

Columbia County

The Boroughs of Berwick and Briar Creek and the Township of Briar Creek

Luzerne County

The Borough of Nescopeck and the Township of Salem

Frackville District

Schuylkill County

The Borough of Frackville and adjacent territory in West Mahanoy, Butler, New Castle Townships and portions of Mahanoy and Walker Townships.

Hershey/Palmyra District

Dauphin County

Portions of the Townships of Conewago, Derry (which includes the area commonly referred to as "Hershey"), Londonderry, and West Hanover; adjacent territory in South Hanover,

Lebanon County

The Borough of Palmyra and the Townships of Annville, North Annville, North Londonderry, South Annville and South Londonderry

Lake Heritage District

Adams County

The Townships of Mount Joy, Mount Pleasant and Straban

Mechanicsburg District

Cumberland County

The Boroughs of Camp Hill, Lemoyne, New Cumberland, Shiremanstown, West Fairview and Wormleysburg and the Townships of East Pennsboro, Hampden, Lower Allen, Silver Spring and portions of Upper Allen Township

York County

Portions of Townships of Fairview and Newberry

Milton/White Deer District

Northumberland County – Rate Zone 1 and Rate Zone 3 (McEwensville)

The Boroughs of McEwensville, Milton, Northumberland and Watsonstown and portions of the Townships of Delaware, East Chillesquaque, Point, Turbot, Upper Augusta and West Chillesquaque

Union County

The Borough of Lewisburg and portions of the Townships of Buffalo, East Buffalo, Gregg, Kelly and White Deer

Steelton District

Dauphin County

The Borough of Steelton and a portion of Swatara Township.

(C)

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

SCHEDULE OF RATES

RATE ZONE 5 - GENERAL METERED SERVICE
FOR ALL RATE CLASSES

(C)

APPLICABILITY

The rates as set forth below apply in the Steelton service territory served under this tariff for service rendered on and after the Effective Date shown at the bottom of this page.

AVAILABILITY

The rates under this schedule are available to all customers in all rate classes.

METERED SERVICE

All water supplied by the Company under this rate schedule for any and all purposes except, Qualified Private Fire Hydrants and Public Fire Hydrants, shall be metered. All meters shall be read monthly or bimonthly and the water used shall be paid for in accordance with the following schedule of rates.

RATE

Service Charge For All Rate Classes

The following monthly service charge shall apply based on the size of meter required to render adequate service, as determined by the Company:

<u>Size of Meter</u>	<u>Service Charge Per Month</u>
5/8 inch	\$ 14.78
3/4 inch	14.78
1 inch	32.37
1-1/4 inch	58.29
1-1/2 inch	58.29
2 inch	84.20
3 inch	191.06
4 inch	249.52
6 inch	399.23
8 inch	579.97

Consumption Charges For All Rate Classes

The following rates shall apply per 100 gallons per month:

	<u>Service Charge</u>
First 1,700 gallons per month	
Next 18,300 gallons per month	\$.8260
Next 30,000 gallons per month	\$.9120
All Over 50,000 gallons per month	\$.7880

(C) means Change

Issued: xxxxx xx, xxxxx

Effective Date: xxxxx xx, xxxxx

PENNSYLVANIA-AMERICAN WATER COMPANY

SCHEDULE OF RATES

PRIVATE FIRE SERVICE -- METERED

(C)

APPLICABILITY

The rates under this schedule apply in the Steelton Service Territory.

AVAILABILITY

The rates under this schedule are available to UGI Energy Services LLC located at the West Franklin Street Liquefied Natural Gas Facility.

RATE

Service Charge

The following monthly service charge shall apply based on the size of meter required to render adequate service, as determined by the Company:

<u>Size of Meter</u>	<u>Service Charge Per Month</u>
16 inch	\$ 1,159.94
18 inch	1,304.93
20 inch	1,449.92

Consumption Charges For All Rate Classes

The following rates shall apply per 100 gallons per month:

	Service Charge
First 1,700 gallons per month	
Next 18,300 gallons per month	\$.8260
Next 30,000 gallons per month	\$.9120
All Over 50,000 gallons per month	\$.7880

(C) means Change

Issued: xxxxx xx, xxxxx

Effective Date: xxxxx xx, xxxxx

Redline Version

Supplement No. xx to
Tariff Water-PA P.U.C. No. 5

PENNSYLVANIA-AMERICAN WATER COMPANY
(hereinafter referred to as the "Company")
D/B/A
Pennsylvania American Water

RATES, RULES AND REGULATIONS

GOVERNING THE DISTRIBUTION AND SALE OF
WATER SERVICE

IN CERTAIN MUNICIPALITIES AND TERRITORIES LOCATED ADJACENT THERETO IN:

ADAMS, ALLEGHENY, ARMSTRONG, BEAVER, BERKS, BUCKS,
BUTLER, CENTRE, CHESTER, CLARION, CLEARFIELD, CLINTON, COLUMBIA,
CUMBERLAND, DAUPHIN, FAYETTE, INDIANA, JEFFERSON, LACKAWANNA,
LANCASTER, LAWRENCE, LEBANON, LUZERNE, MCKEAN, MONROE, MONTGOMERY,
NORTHAMPTON, NORTHUMBERLAND, PIKE, SCHUYLKILL, SUSQUEHANNA,
UNION, WARREN, WASHINGTON, WAYNE, AND YORK COUNTIES.

Issued: XXXX XX, XXXX

Effective: XXXX XX, XXXX

Issued by:
Jeffrey McIntyre, President
Pennsylvania American Water
800 West Hersheypark Drive
Hershey, PA 17033

<https://www.amwater.com/paaw/>

The tariff authorizes Pennsylvania-American Water Company to furnish water service to the public in the Borough of Steelton and a portion of Swatara Township. (Refer to pages 2, 4, 5, 9, 16.7 and 31.1)

NOTICE

PENNSYLVANIA-AMERICAN WATER COMPANY

LIST OF CHANGES

This tariff supplement authorizes Pennsylvania American Water Company to begin to offer or furnish water service to the public in the Borough of Steelton and a portion of Swatara Township as ordered by the Pennsylvania Public Utility Commission at Docket No. A-xxxx - xxxxxx entered xxxxx xx, xxx.

Issued: xxxxx xx, xxx

Effective Date: xxx xx, xxx

PENNSYLVANIA-AMERICAN WATER COMPANY

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(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

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(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

TERRITORIES SERVED

(By State Region and Company Water District)
(All territories are subject to Rate Zone 1 unless otherwise noted)

Central Pennsylvania

Berwick District

Columbia County

The Boroughs of Berwick and Briar Creek and the Township of Briar Creek

Luzerne County

The Borough of Nescopeck and the Township of Salem

Frackville District

Schuylkill County

The Borough of Frackville and adjacent territory in West Mahanoy, Butler, New Castle Townships and portions of Mahanoy and Walker Townships.

Hershey/Palmyra District

Dauphin County

Portions of the Townships of Conewago, Derry (which includes the area commonly referred to as "Hershey"), Londonderry, and West Hanover; adjacent territory in South Hanover,

Lebanon County

The Borough of Palmyra and the Townships of Annville, North Annville, North Londonderry, South Annville and South Londonderry

Lake Heritage District

Adams County

The Townships of Mount Joy, Mount Pleasant and Straban

Mechanicsburg District

Cumberland County

The Boroughs of Camp Hill, Lemoyne, New Cumberland, Shiremanstown, West Fairview and Wormleysburg and the Townships of East Pennsboro, Hampden, Lower Allen, Silver Spring and portions of Upper Allen Township

York County

Portions of Townships of Fairview and Newberry

Milton/White Deer District

Northumberland County – Rate Zone 1 and Rate Zone 3 (McEwensville)

The Boroughs of McEwensville, Milton, Northumberland and Watsonstown and portions of the Townships of Delaware, East Chillesquaque, Point, Turbot, Upper Augusta and West Chillesquaque

Union County

The Borough of Lewisburg and portions of the Townships of Buffalo, East Buffalo, Gregg, Kelly and White Deer

Steelton District

(C)

Dauphin County

The Borough of Steelton and a portion of Swatara Township.

(C) means Change

PENNSYLVANIA-AMERICAN WATER COMPANY

SCHEDULE OF RATES

**RATE ZONE 5 - GENERAL METERED SERVICE
FOR ALL RATE CLASSES EXCEPT INDUSTRIAL**

(C)

APPLICABILITY

The rates as set forth below apply in the Steelton service territory served under this tariff for service rendered on and after the Effective Date shown at the bottom of this page.

AVAILABILITY

The rates under this schedule are available to all customers in all rate classes.

METERED SERVICE

All water supplied by the Company under this rate schedule for any and all purposes, except Industrial, Qualified Private Fire Hydrants and Public Fire Hydrants, shall be metered. All meters shall be read monthly or bimonthly and the water used shall be paid for in accordance with the following schedule of rates.

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Next 30,000 gallons per month	\$.9120
All Over 50,000 gallons per month	\$.7880

(C) means Change

Issued: xxxxx xx, xxxxx

Effective Date: xxxxx xx, xxxxx

PENNSYLVANIA-AMERICAN WATER COMPANY

SCHEDULE OF RATES

PRIVATE FIRE SERVICE - METERED

(C)

APPLICABILITY

The rates under this schedule apply in the Steelton Service Territory.

AVAILABILITY

The rates under this schedule are available to UGI Energy Services LLC located at the West Franklin Street Liquefied Natural Gas Facility.

RATE

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20 inch	1,449.92

Consumption Charges For All Rate Classes

The following rates shall apply per 100 gallons per month:

	<u>Service Charge</u>
First 1,700 gallons per month	
Next 18,300 gallons per month	\$ 8260
Next 30,000 gallons per month	\$ 9120
All Over 50,000 gallons per month	\$ 7680

(C) means Change

Issued: XXXX XX, XXXX

Effective Date: XXXX XX, XXXX

Document comparison by Workshare 9.5 on Monday, January 14, 2019 12:24:33 AM

Input:	
Document 1 ID	file://T:\Desktop - 2018\Desktop Folders\Steelton Borough Authority\Steelton Deficiency Letter\ORIGINAL Appendix A-13.docx
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Deletion	
Moved from	
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Split/Merged cell	
Padding cell	

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	Count
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Deletions	3
Moved from	0
Moved to	0
Style change	0
Format changed	0

Total changes	3
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66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019

Missing Application Information

6. Checklist Item No. 20.a – Please provide a copy of Steelton’s Public Water Supply Permit No. 7220036 for its water treatment plant referenced on page 3 of PAWC Statement No. 2 contained in the Application’s Appendix A-14.

Response: The reference “public water supply permit no. 7220036” on lines 19-20, page 3 of PAWC Statement No. 2 should be “public water supply identification number 7220036”. PAWC will amend Statement No. 2 accordingly when entering the testimony into the record.

**66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019**

Missing Application Information

7. Checklist Item No. 20.a. – Please provide a copy of Steelton’s Safe Drinking Water Act (SDWA) Operation Permit No. 2272501-A dated July 7, 1997, referenced on page 1 of the Consent Order and Agreement provided as part of the Application’s Appendix A-20-e.

Response: See SDWA Operation Permit No. 2272501-A dated July 30, 1997, attached hereto and to be included as part of Appendix A-20-e. A request has been made to DEP for SDWA Operation Permit No. 2272501-A dated July 7, 1997.



Pennsylvania Department of Environmental Protection

One Ararat Boulevard
Harrisburg, PA 17110-9333
July 30, 1997

Southcentral Regional Office

717-657-4692
Fax-717-657-4446

Paul Wintergrass, Water Plant Superintendent
Steelton Borough Water Authority
123 N. Front St.
Steelton, PA 17113

Re: Public Water Supply
Permit Amendment No. 2272501
Steelton Borough Water Authority
Steelton Borough, Dauphin County

Dear Mr. Wintergrass:

We are amending Permit No. 2272501 under Section 109.503(b)(2) of the Safe Drinking Water Regulations to show the following:

1. Change in polymers from Magnifloc 990N to MRFLOC 1734,
2. Replacement of filter media and underdrain system (Leopold) in filter nos. 1, 3 and 4.

We are making the modules, plans, specifications, documentation and all correspondence part of the permit documentation on this case. You should do likewise with your copies.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD user may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in Braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.



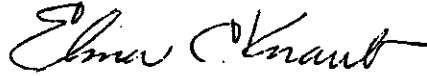
Paul Wintergrass

-2-

July 30, 1997

If you have any questions, you can contact Mr. Thomas Filip at the above number.

Sincerely,



Elmer C. Knaub
Program Manager
Water Supply Management Program

cc: Thomas K. Mellott, HRG

bcc: Thomas Shaul
~~Thomas Filip~~
Central Office
Harrisburg District Office
File
T

**66 Pa. C.S. Section 1329 Application Completeness Review
of Pennsylvania-American Water Company Acquisition of
Steelton Borough Authority Water System Assets at Docket No. A-2019-3006880
Dated: January 9, 2019**

Missing Application Information

- 8. Checklist Item No. 20.a. – Please provide a copy of Steelton’s SDWA Construction Permit No. 2209510 dated April 6, 2010, referenced on page 2 of the Consent Order and Agreement provided as part of the Application’s Appendix A-20-e.**

Response: See SDWA Construction Permit No. 2209510 dated April 6, 2010, attached hereto and to be included as part of Appendix A-20-e.



Pennsylvania Department of Environmental Protection

909 Elmerton Avenue
Harrisburg, PA 17110-8200

APR - 6 2010

Southcentral Regional Office

717-705-4708
FAX-717-705-4930

Mr. John M. DeSanto, Borough Secretary-Treasurer
Steelton Borough Authority
123 North Front Street
Steelton, PA 17113

Re: Public Water Supply
PWSID No. 7220036
Construction Permit No. 2209510
Steelton Borough Authority
Steelton Borough, Dauphin County

Dear Mr. DeSanto:

Issuance of the enclosed construction permit is authorized in accordance with the provisions of the laws of the Commonwealth. Our office should be notified at least 30 days prior to the completion of construction so that an inspection can take place. The proposed facilities may not be placed into service until you obtain a separate public water system operation permit from the Department.

The most up-to-date regulations for Public Water Supplies, which we believe are self-explanatory, can be found at the following web address:

<http://www.pacode.com/secure/data/025/chapter109/chap109toc.html>

Please have your authorized representative and supervising engineer complete the enclosed Certificate of Construction/Modification Form and submit it to our office when requesting our inspection. Please make provisions to comply with certification before construction begins.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.



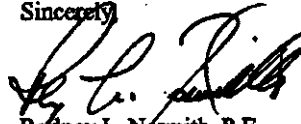
APR - 6 2010

Mr. John M. DeSanto, Borough Secretary-Treasurer -2-
Steelton Borough Authority

If you want to challenge this action, your appeal must reach the Board within 30 days. You do not need a lawyer to file an appeal with the Board. Important legal rights are at stake, however, so you should show this document to a lawyer at once. If you cannot afford a lawyer, you may qualify for free Pro Bono representation. Call the Secretary to the Board (717-787-3483) for more information.

If you have any questions, please contact Mr. Thomas Filip of this office.

Sincerely,



Rodney L. Nesmith, P.E.
Program Manager
Water Supply Management Program

Enclosures

cc: Vaughan S. Leer, P.E., Navarro & Wright Consulting Engineers, Inc.

APR - 6 2010

Mr. John M. DeSanto, Borough Secretary-Treasurer -3-
Steelton Borough Authority

bcc: Thomas Shaul
Thomas Filip
Central Office
Harrisburg District Office
File - 2c
T

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY MANAGEMENT
PUBLIC WATER SUPPLY PERMIT

NO. **2209510**

<p>A. PERMITTEE: (Name and Address)</p> <p>Steelton Borough Authority 123 North Front Street Steelton, PA 17113</p>	<p>B. PROJECT/PLANT LOCATION</p> <p>Municipality Steelton Borough County Dauphin County</p>																																													
<p>C. THIS PERMIT APPROVES FOR: 1. <input checked="" type="checkbox"/> CONSTRUCTION 2. <input type="checkbox"/> OPERATION OF FACILITIES AS INDICATED BELOW: Approved Under Construction Permit No. _____</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 33%;">Source</th> <th style="text-align: left; width: 33%;">Facilities</th> <th style="text-align: left; width: 33%;">BVRB</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Well(s)</td> <td><input type="checkbox"/> Impoundment</td> <td><input type="checkbox"/> Bottled Water System</td> </tr> <tr> <td><input type="checkbox"/> Spring(s)</td> <td><input checked="" type="checkbox"/> Settling</td> <td><input type="checkbox"/> Bulk Water Hauling System</td> </tr> <tr> <td><input type="checkbox"/> Surface Water</td> <td><input checked="" type="checkbox"/> Filtration</td> <td><input type="checkbox"/> Vended Water System</td> </tr> <tr> <td><input type="checkbox"/> Finished Water</td> <td><input type="checkbox"/> Iron and Manganese Treatment</td> <td><input type="checkbox"/> Retail Water Facility</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Softening</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> Fluoridation</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> Distribution Facility</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> General Corrosion Control</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> Corrosion Control for Lead/Copper</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> Disinfection</td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Pump Station(s)</td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Transmission Lines</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/> Finished Water Storage</td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Other <u>Raw water intake</u></td> <td></td> </tr> </tbody> </table> <p>KNOWN AS: <u>Filter treatment plant improvements</u></p>		Source	Facilities	BVRB	<input type="checkbox"/> Well(s)	<input type="checkbox"/> Impoundment	<input type="checkbox"/> Bottled Water System	<input type="checkbox"/> Spring(s)	<input checked="" type="checkbox"/> Settling	<input type="checkbox"/> Bulk Water Hauling System	<input type="checkbox"/> Surface Water	<input checked="" type="checkbox"/> Filtration	<input type="checkbox"/> Vended Water System	<input type="checkbox"/> Finished Water	<input type="checkbox"/> Iron and Manganese Treatment	<input type="checkbox"/> Retail Water Facility		<input type="checkbox"/> Softening			<input type="checkbox"/> Fluoridation			<input type="checkbox"/> Distribution Facility			<input type="checkbox"/> General Corrosion Control			<input type="checkbox"/> Corrosion Control for Lead/Copper			<input type="checkbox"/> Disinfection			<input checked="" type="checkbox"/> Pump Station(s)			<input checked="" type="checkbox"/> Transmission Lines			<input type="checkbox"/> Finished Water Storage			<input checked="" type="checkbox"/> Other <u>Raw water intake</u>	
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	<input checked="" type="checkbox"/> Other <u>Raw water intake</u>																																													
<p>LIMIT OF AUTHORIZATION</p> <p>YOU ARE HEREBY AUTHORIZED TO CONSTRUCT OR OPERATE, AS INDICATED ABOVE, PROVIDED THAT FAILURE TO COMPLY WITH CHAPTER 109, OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OR THE TERMS OR CONDITIONS OF THIS PERMIT SHALL VOID THE AUTHORITY GIVEN TO THE PERMITTEE BY THE ISSUANCE OF THE PERMIT.</p> <p>THE PLANS, SPECIFICATIONS, REPORTS AND SUPPORTING DOCUMENTS SUBMITTED AS PART OF THE PERMIT APPLICATION BECOME PART OF THE PERMIT.</p> <p>NO DEVIATIONS FROM APPROVED PLANS OR SPECIFICATIONS AFFECTING THE TREATMENT PROCESS OR QUALITY OF WATERS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT.</p> <p>THIS PERMIT IS ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION UNDER THE AUTHORITY OF THE PENNSYLVANIA SAFE DRINKING WATER ACT, THE ACT OF MAY 1, 1984 (P.L. 286, NO. 43). OPERATION SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 109 ADOPTED UNDER THE AUTHORITY IN SECTIONS 4 AND 6(e) OF THE PENNSYLVANIA SAFE DRINKING WATER ACT.</p> <p>THIS PERMIT IS SUBJECT TO THE ATTACHED SPECIAL CONDITIONS: <u>1, 2, 3, 4 and 5</u></p>																																														
<p>PERMIT ISSUED</p> <p>Date <u>APR 6 2010</u></p>	<p>DEPARTMENT OF ENVIRONMENTAL PROTECTION</p> <p>By <u>Rodney L. Nesmith, P.E.</u> Title <u>Program Manager</u></p>																																													

WATER SUPPLY MANAGEMENT PROGRAM
Steelton Borough Authority
Construction Permit No. 2209510

Page 2

Steelton Borough
Dauphin County

This permit is issued subject to all Department of Environmental Protection Rules and Regulations now in force and the following Special Conditions:

1. Prior to issuance of an Operation Permit, the facilities shall be properly disinfected in accordance with 25 PA Code, Chapter 109.711 of the Safe Drinking Water regulations and the most recent procedures established by the American Water Works Association (AWWA). The facilities shall be tested for total coliforms in accordance with AWWA standards. The samples shall be analyzed by a Department-accredited laboratory. Two copies of the satisfactory microbiological test results shall be submitted with the *Certificate of Construction/Modification*.
2. Prior to issuance of an Operation Permit, if the submerged surface of any facility is coated/painted, the facilities shall be sampled and tested for volatile organic chemical (VOC) content before it is placed into service. The facilities shall be filled with water for at least 24 hours prior to the collection of the VOC sample. The sample shall be analyzed by a Department-accredited laboratory. Two copies of the satisfactory VOC test results shall be submitted with the *Certificate of Construction/Modification*.
3. Upon completion of construction in accordance with the approved plans and specifications, the permittee shall submit the "Certificate of Construction/Modification" to the Department. Certification shall state that the work was completed in accordance with the approved plans and specifications and shall be signed by the professional engineer or other person responsible for the work. Certification shall include that adequate operation and maintenance information for the approved facilities is available, on site, for use by the public water system's personnel.
4. Prior to returning a filter unit or clarifier to service, an operation permit for that facility must first be obtained from the Department.
5. Per 25 Pa. Code § 109.703(b)(4), filter-to-waste is required at all conventional filter plants, unless the water supplier requests other operating techniques to minimize the initial increase in turbidity when a filter is placed in service. These techniques shall be justified by a filter performance study approved by the Department. If the Authority does not plan to filter-to-waste, a performance study shall be submitted to the Department explaining in detail all operating techniques that will be routinely used to reduce the startup turbidity spike and provide supporting data including corresponding standard operating procedures (SOPs).

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATER SUPPLY MANAGEMENT

INTERNAL REVIEW AND RECOMMENDATIONS

Name of Applicant	Steelton Borough Authority	Project Location	Steelton Borough Dauphin County	APS ID No.	710202	Permit No.	2209510
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BRIEF DESCRIPTION OF PROJECT AND DISCUSSION (Use Additional Sheets if Necessary)

This permit is in response to an application filed with the Department on December 11, 2009 for renovations at the Borough's filter plant, raw water pump station and installation of a new transmission main.

The work to be accomplished by this project includes the construction of an interconnection with United Water, installation of a new sluice gate valve and raw water screening system at the raw water pump house, replacement of the filter siphon structure and filter media for all four (4) filters, replacement of some metal in the clarifiers along with the sludge rake arms and mechanical drive unit, repainting of the clarifiers and filters, installation of 1,460 ft of new 16" finished water transmission line from the filter plant to the distribution system and a repair to the raw water intake.

Further clarifications of some items of this project are as follows:

1. *Repair of raw water intake:* When the raw water line intake line was originally constructed it was placed immediately below a large stormwater line discharging rainwater to the river. Heavy flows have eroded all the cover material as well as created a deep hole below the line. The raw water line is currently suspended in this hole. This portion of the project will fill in the hole and cover the line with concrete to provide protection to the line.
2. *United interconnection:* This interconnection will be located on South 19th Street. The interconnection will consist of a 6' x 14' below grade concrete meter chamber with a 6" Watts DCBA backflow preventer (Series 709 DCDA), 6" gate valve, 6" Cla-Val flow control valve and a 6" Sensus meter. Approximately 630' of 8" pipe will be needed to connect the two systems.
3. *Raw water pump station:* The brick walls of the wetwell will be remortared to reduce leakage. A new sluice gate will be installed to replace the existing leaky gate. Also, the existing wire mesh debris screen will be replaced with Hydro-Flo screen and washing compactor manufactured by Hydro-Dyne Engineering, Inc. This will incorporate a self-cleaning 'belt' type screen to remove materials and particles larger than 1/4".
4. *Filter Units:* The primary filter repairs will be made to the central core which uses a vacuum system for flow splitting and filter backwashing. The existing carbon steel has corroded to the point where the metal had delaminated and is fragile. This structure will be replaced with one made of stainless steel. In addition, all filter media will be replaced while each filter is out of service.

While one filter is under renovation, the remaining filters will be covered by a tarp to minimize potential contamination by debris and airborne particles as they settle. The tarps will be anchored such that the plant staff will be able to access the filters and observe the filters during operation.

Since the filters would be out-of-service for repairs/modifications, the Department requested the Authority to explain why filter-to-waste capability wasn't being provided. The following, per letter dated February 26, 2010, is the Authority's response:

"Consideration was given to the potential addition of a filter-to-waste capability at the plant; however there were several technical, spatial and economic factors discussed in more detail below that resulted in the filter-to-waste for being implemented.

"Operationally, the filter cells rely upon a single effluent discharge line that discharges to a common header for conveyance to the clear well. This effluent line is also utilized by each individual filter cell as a influent line for the water utilized in the backwash process. This combination of uses results in the requirement that implementation of a filter-to-waste line would require four (4) separate filter-to-waste lines be installed and associated valve on the existing common effluent lines and the new filter-to-waste line... Furthermore,

INTERNAL REVIEW AND RECOMMENDATIONS

Steelton Borough Authority
 Steelton Borough, Dauphin County
 Construction Permit No. 2209510
 Page 2

implementation is restricted by spatial constraints within the high-service / pump filter service room. In the current configuration there is approximately 12" of common effluent / backwash piping for each filter cell and then the appropriate fitting to manifold the cell discharge lines into the header, resulting in inadequate amount of space to install a tee and valve for a separate individual filter-to-waste line. Additionally the existing waste line is under the concrete floor. The turbidimeters also are situated approximately 2" from the header pipe, adding to the spatial constraints.

"Additionally, the plant operation adheres to the requirements of the Public Water Supply [Manual] Part V - Operations and Maintenance Section E [Section II Chapter 2 Section 2.1.E] titled Filtration paragraph 2.b relating to filter backwash in the absence of a filter-to-waste line. Operation staff leaves the filter cell out of service for a minimum of 30 minutes after backwashing to permit the media to settle and consolidate. Review of the operational data for the last two years relative to turbidity levels directly after the minimum 30 minute settling and consolidation stage indicate the highest level experienced at this time was 0.17 NTU and thus compliant with the requirements of the Safe Drinking Water Act and Enhanced Surface Water Treatment Rule.

"Therefore based upon the above discussion the concept of installing filter-to-waste capability on the Steelton Borough Authority's filters has been eliminated from further consideration."

5. **Clarifiers:** The units will be refurbished with at least the top two (2) ft of metal being replaced, including collector & outlet launders as well as the sludge rake arms due to severe corrosion. A new mechanical drive unit will be installed to ensure continued operation.
6. **Flow Meters:** Three new flow meters will be installed. Of these, two will replace existing meters. The new replacement meters include a 10" & 12" magnetic type raw water and finished water flow meters (Rosemount 8700 Series or Sparling FM 656 Series "Tiger-Mag EP" model) respectively. A 3" Sensus turbo meter (Model W 350 DRS) will also be installed to measure plant water flow.
7. **Painting:** The submerged surfaces of the filters and clarifiers will be painted as well as the backwash pump station piping and other piping throughout the filter plant. All surfaces in contact with water shall be painted with an ANSI/NSF Standard 61.

PNDI Database Searches (Nos. 20091221221579, 20091221221591, 20091221221592) were conducted on December 21, 2009. The first search indicated that no known impacts were anticipated, while the second and third searches resulted in a potential impact requiring further review by the PA Game Commission. The PA Game Commission indicated by letter, dated February 26, 2010, that no impacts were anticipated.

Act 67 & 68 Land Use notification letters were sent to Dauphin County, Swatara Township and the Borough of Steelton on December 9, 2009. The return receipt for Steelton was dated December 14, 2009 while the other receipts were signed but not dated.

This application was published in the February 13, 2010 issue of the Pennsylvania Bulletin. No Comments were received.

RECOMMENDATION and ACTION

Approved	Returned	Signature	Date
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Thomas J. Filip III, P.E. ENVIRONMENTAL ENGINEER <i>Thomas J. Filip III</i>	March 19, 2010
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Thomas E. Shanl, P.E. CHIEF, TECHNICAL SERVICES <i>Thomas E. Shanl</i>	3-31-2010
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rodney L. Neamith, P.E. PROGRAM MANAGER <i>Rodney L. Neamith</i>	4-6-2010

SS BOX

EMILY T. HICKS
717531-3211
PAWC
800 WEST HERSHEY PARK DRIVE
HERSHEY PA 17033

1 LBS

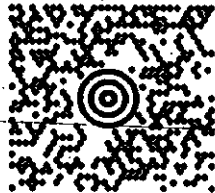
1 OF 1

DWT: 13,11,2

SHIP TO:

ROSEMARY CHIAVETTA, SECRETARY
717772-7777
PA PUBLIC UTILITY COMMISSION
400 NORTH STREET
COMMONWEALTH KEYSTONE BLDG, 2ND FL.
HARRISBURG PA 17120

SHIPPING



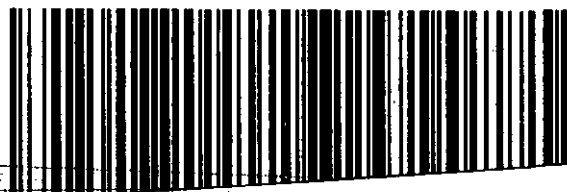
PA 171 9-20



UPS NEXT DAY AIR

TRACKING #: 1Z 172 3E2 01 9514 8036

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CMPC

To: CHIAVETA, R. PUC

Agency: PUC

Floor:

External Carrier: UPS 1 DAY AIR

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