

BUREAU OF TECHNICAL UTILITY SERVICES DATA REQUESTS

TO PENNSYLVANIA-AMERICAN WATER COMPANY

Docket No. A-2017-2606103

Data Request 1

Data Requests A-16 and A-17 refer to PAWC-WD Statement No. 3 in the Application's Appendix A-14.

A-16. Please provide a detailed estimate of the costs associated with implementing the Nine Minimum Control Plan (NMCP) and the Long Term Control Plan (LTCP) referenced in the Direct Testimony of David S. Kaufman.

Response: The anticipated costs for the LTCPs associated with Duquesne, Dravosburg, and Port Vue are found in the following attachments. We do not anticipate any material capital costs associated with implementing the NMCPs for the various municipalities

Responsible Witness: David Kaufman
Title: Vice President, Engineering

Date: July 14, 2017

LTCP Summary for Duquesne sewer system

Task Description	Anticipated Cost ⁽¹⁾
1. CSS upgrades	\$896,708
2. New automatic bar screen and bypass channel	\$289,261
3. New headworks building	\$1,859,945
4. New raw sewage pump station and controls	\$1,382,665
5. New raw sewage pump station piping and valve vault	\$1,440,518
6. New pump flow meter	\$57,852
7. Site gravity and force main piping	\$526,454
8. New CSO bypass treatment	\$3,005,417
9. Upgrade final clarifier equipment to maximize efficiency	\$1,541,180
10. Hydraulic improvements to WWTP inlet line	\$400,000
Anticipated Total Cost:	\$11,400,000

(1) Anticipated costs per MACM's LTCP, to be refined by PAWC post-close.

LTCP Summary for Dravosburg sewer system

Task Description	Anticipated Cost ⁽¹⁾
1. New raw sewage pump station	\$4,583,386
2. New force main	\$2,366,027
3. Modify existing aeration basins	\$1,236,787
4. Upgrades to eliminate sanitary discharges to mines	\$2,800,000
Anticipated Total Cost:	\$10,986,200

(1) Anticipated costs per MACM's LTCP. to be refined by PAWC post-close.

Initial Remedial Program for Port Vue sewer system

Task Description	Anticipated Cost ⁽¹⁾
1. Correct Grade 4 & 5 defects in Port Vue System	\$14,481,000
2. Inspect and repair defective manholes	\$700,000
3. Conduct flow monitoring program	\$140,000
4. Perform Hydraulic Characterization study	\$100,000
5. Develop LTCP to address deficiencies	\$200,000
6. Replace Glen Ave Lift Station	\$495,000
Anticipated Total Cost:	\$16,116,000

(1) Anticipated costs per MACM's LTCP, to be refined by PAWC post-close.