

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY
PENNVEST APPLICATION FORMS**

City of Philadelphia

City of Philadelphia - East Park Booster Pumping Station

512033172410-CW

11/15/2024

DESCRIPTION

PROJECT DESCRIPTION

What is the project type?	Drinking Water
What is the project name?	City of Philadelphia - East Park Booster Pumping Station
What is the project's Primary County?	Philadelphia
What is the project's Primary Municipality?	Philadelphia City
What is the application type?	Traditional Construction
What is the project stage?	Construction
Is this related to a previous advanced funding application through PENNVEST?	No
If yes, enter the project name or number.	

COMMENTS

SYSTEM

SYSTEM DESCRIPTION

What type of system is this?	Existing System
What is your NPDES number?	PA-0026689, PA-0026671, PA-0054712
What is your PWSID number?	1510001
Do you own the system?	Yes
If no, explain	
Do you operate the system?	Yes
if no, explain	
Do you maintain the system?	Yes
If no, explain	
Will you construct the system?	Yes

If no, explain

Does this project include costs associated with the purchase of system capacity from another entity (i.e. capital contribution)? No

If yes, explain

Does this project include costs associated with the construction of capacity in your system for use and/or purchase by other entity (ies) (i.e. capital contribution)? No

If yes, explain

Is, or does the Applicant intend to be, a party to any inter-municipal agreements which affect this project or your system? Yes

Has the applicant issued debt or borrowed money, or does the applicant intend to issue debt or borrow money, under a trust indenture (i.e. Bonds)? Yes

Do you charge residential or commercial user fees? Yes

COMMENTS

FUNDING

REQUESTED PENNVEST AMOUNT

This is your requested PENNVEST amount. \$68,775,000.00

COMMITTED OTHER SOURCES OF FUNDS

Source Type	Source Name	Source Amount	Funding Comments
		\$	
	Total:	\$0.00	

ESTIMATED TOTAL PROJECT COST

This is your estimated total project cost. \$68,775,000.00

COMMENTS

PROJECT CONTACTS

City of Philadelphia		Legal Entity	
Address: 1401 John F. Kennedy Boulevard Philadelphia, PA 19107		Email: Phone: 2156854948	
SAP Vendor Number: 177575013	DUNS: 133889241	Federal ID/FIN: 236003047	

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		Phone Ext:	

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		Phone Ext:	

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	Phone Ext:

Yangalay, Lawrence	Borrower
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	Phone:
	Phone Ext:

PROJECT SITE(S)

East Park Booster Pumping Station	Primary Site
Address: 3199 West Girard Avenue Philadelphia, PA 19130	Latitude: 39.9754995 Longitude: -75.1880530

PROJECT PLAN

PROJECT PLAN

Planning Consultation Date	06/01/2019
Planning Completion Date	04/01/2022
Design Start Date	04/01/2022
Design Completed Date	10/01/2024
Date Obtained All Needed DEP Permits	10/15/2024
Anticipated Construction Start Date	10/01/2025
Anticipated Construction End Date	11/01/2029

Letter of No Prejudice Issued by PENNVEST

PROJECT PHASE

Phase Name	Design Complete	Obtain All Permits	Start Construction	End Construction

COMMENTS

NARRATIVE : DESCRIPTION

NARRATIVE DESCRIPTIONS

Describe the problem that this project will correct or resolve. Please be specific and include such discussion points as the cause and impact of the problem, permit exceedances or compliance related problems, if any and/or any additional operational issues caused or contributed by the identified problem(s).

The existing East Park Booster Pumping Station (EPBPS) was constructed in 1937 and has not received any major upgrades since its initial construction. The station is currently operational thanks to frequent maintenance from PWD, but all of the pumps, motors, piping, and valves are 90 years old so they are definitely being pushed to the limits of their lifespan. Additionally only 13.2 kV electrical gear (and therefore motors) are available at the site, and one of the reasons for a new building is the space to put in 13.2kV to 4.16kV transformers. This will improve equipment reliability and most importantly worker safety. Some of this high voltage gear is also not to code.

The station serves the only interconnection between the West and Central Philadelphia water distribution systems, pumping approximately 7 million gallons of supplementary water to the Belmont Gravity district overnight. In cases of emergency, the EPBPS would be the only station that can provide water to west Philadelphia. Due to its age and lack of redundancies, the Philadelphia Water Department and JMT have designed a new pumping station with similar capacities, but increased resilience in times of emergency. The new station is designed around the existing station's capacities and will have four pumps with a rated capacity of 24 MGD to support and improve operations.

Describe the scope of the project. List in quantitative terms what is planned to be constructed, rehabilitated and decommissioned. For Example: 'The 12,000 feet of 8-inch waterline will be replaced, one 200,000 gallon standpipe will be constructed, the current Market Street Pump Station will be decommissioned, a new 250 gallon per minute duplex pump station will be constructed on Leisure Street, 44 hydrants will be replaced...'

At 33rd and Girard, a new pumping station site will be constructed. The existing station will be decommissioned by modifying the site piping and changing the existing building to office and storage space for PWD.

- New Pump Station
 - o Two-story, 40-foot-tall building
 - o 11,350 ft²
 - o Install Four (4) 24 MGD booster pumps
 - o Install Twelve 30" double disc gate valves
 - o Install Five (5) 30" tilting disc gate valves
 - o Install Six (6) 48" double disc gate valves
 - o Install approximately 250 LF 48" piping
 - o Install approximately 270 LF 30" piping
 - o Install approximately 30 LF 24" piping
 - o Install new HVAC system
 - o Install new floor drain system
 - o Interior restroom
 - o Install new electrical equipment on both first and second floors
 - o Interior lighting
- Exterior Station Site
 - o Install approximately 1,200 LF 48" suction and discharge piping
 - o Install two air release valves at suction pipe high points
 - o Install approximately 65 LF 5" wastewater service piping
 - o Install approximately 800 LF stormwater management piping (varying sizes)
 - o Install underground stormwater detention basin
 - o Install two 13,200 V to 4160V transformers
 - o Install one 2.25 MW emergency generator and load bank
 - o Install underground electrical duct banks, raceways, and wiring
 - o New driveway off 33rd street
 - o Install two electrical vehicle chargers
 - o Landscaping with native perennial plants, shrubs, and trees.
 - o Install four new concrete valve vaults
 - o Install one (1) 48" venturi meter
 - o Install approximately 100 LF 1-1/2" copper pipes to and from Venturi meter
 - o Install four (4) 48" double disc gate valves

- o Install one (1) 36" double disc gate valve
- o Install one (1) 48" butterfly valve
- o Install new ornamental site fencing, with three personnel gates and one vehicle gate
- o Install new site sign
- o Install new exterior lighting
- Existing Station Exterior
- o Install approximately 40 LF gas service (reconfigured, connected to existing service)
- o Remove all three (3) 25 MGD pumps
- o Remove three (3) 30" cone valves
- o Remove three (3) 24" butterfly valves
- o Remove three (3) 24" tilting disc check valves
- o Remove approximately 100 LF 30" process piping
- o Remove approximately 350 LF 48" process piping
- o Remove approximately 35 LF 54" process piping
- o Remove five (5) concrete valve vaults, including valves and piping
- o Install four (4) concrete valve vaults, including valves and piping
- ? One (1) 54" butterfly valve
- ? One (1) 48" butterfly valve
- ? One (1) 36" butterfly valve
- ? One (1) 48" plug valve
- o Install approximately 35 LF 54" process piping
- o Install approximately 220 LF 48" process piping
- o Install approximately 45 LF 36" process piping
- o Reinstall site fencing
- Station decommissioning (after new station is in operation)
- o Remove all electrical equipment
- o Provide low voltage 120/240V electrical service
- o Fill in pipe trenches in floors with concrete
- o Remove two (2) 48" double disc gate valves
- o Remove one (4) 30" cone valves
- o Remove one (1) 36" cone valve
- o Remove one (1) 30" butterfly valve
- o Remove approximately 30 LF 24" process piping
- o Remove approximately 60 LF 30" process piping
- o Remove approximately 110 LF 48" process piping
- o Fill three vaults to grade after equipment is removed
- o Install approximately 305 LF 2" water service
- o Remove existing 185 LF 6" wastewater service
- o Install approximately 185 LF 6" wastewater service

Describe the cost effectiveness of this project. List physical and administrative alternatives and selected alternatives and justify proposed alternative. Include all issues discussed in Planning Consultation related to cost effectiveness.

Through the course of design, two alternatives were compared to determine the best outcome for the project: rehabilitating the existing station, or constructing a new station with built-in redundancies.

- A four-pump retrofit of the existing station, including:
 - o Multiple, long duration station outages which present major operational risk.
 - o Replacing the three (3) existing 25 MGD booster pumps with four (4) 20 MGD booster pumps.
 - o Keeping the existing 13.2kV electrical service due to lack of space for transformers.
 - o Upgrading electrical equipment for new pumps and lighting.
 - o Bringing a redundant suction header through south side of station.
 - o Reconfiguring pipe trenching in station interior.
 - o Rehabilitating valves and vaults.
 - o Installing a new backup generator.
- The construction of a new booster pumping station, including:
 - o Only one, short duration station outage presenting less operational risk.
 - o Construction of a new station building located on a new site approximately 400 feet northwest of the existing site.
 - o Installation of four (4) 25 MGD booster pumps.
 - o Installation of an outdoor emergency generator.
 - o Installation of one suction header coming from each transmission main, for two suction headers total.
 - o Installation of two discharge headers connecting to the existing 48" transmission main in Girard Ave.
 - o Protection of the existing 6-ft storm sewer.
 - o Design of foundation type based on soil borings and storm sewer.
 - o Installation of two (2) independent 4160 V electrical services for redundant power to the station, and a connection port for a portable generator.
 - o Construction of a new access driveway off N. 33rd Street.

A cost analysis was conducted by JMT to compare the two above alternatives. The findings of this analysis were documented in the Cost-Effectiveness Analysis Report, included as part of this application. Through this study, it was found that the net present value cost (Operations and Maintenance (O&M) Costs and Capital Costs) would be \$39.5 million for the Four Pump Retrofit of Existing Station, and \$62.4 million for the New Booster Pumping Station.

However, despite the higher costs, the design of a new station allows for public drinking water redundancies which could not be provided by the existing station. Critically, the retrofit requires multiple, long duration station outages which present major operational risk. These risks were deemed unacceptable to PWD as it risked safe drinking water for all of West Philadelphia. Future redundancies include the installation of two (2) separate suction and discharge headers, allowing for one header to be shut down for maintenance without disrupting station operations. The new station is also designed to allow for half of the pumps to be shut down at one time for maintenance or emergencies, while the other half of the station remains operational. These designed redundancies allow for greater flexibility at the station and reduce risks to the BG district in times of emergency. PWD selected the New Booster Pumping Station for this project. While this alternative is not the most economical, the non-cost-related considerations weighed in the Cost-Effectiveness Analysis Report played a key role in the final decision. This station will provide fewer risks during construction for the BG system it serves, and provides better the level of service in the future. Additionally, during the design a Second Opinion Analysis was conducted by an engineer who was not involved with the project and he concurred with the design as being standard and efficient.

COMMENTS

DRINKING WATER SUPPORTING PROJECT INFORMATION

Category/Subcategory	Total
Pump Station / New Pumps Design (Capacity in GPM)	

PROBLEM DESCRIPTION

Unfiltered Water Source:	No
Ground water source under influence of Surface Water:	No
Insufficient pressure in distribution system:	No
Inadequate water storage volume in system:	No
Insufficient yeild of the existing water source:	No
Additional Capacity required due to service area growth and development:	No
Antiquated, undersized, or leaky distribution lines:	No
Contamination of existing wells:	No
If applicable, surveyed malfunction rate of on-lot septic systems(%):	0
Treatment plant does not meet current or future treatment standards:	No
Deterioration or disrepair of existing facilities:	Yes

COMMENTS

PROJECT SPECIFIC DATA : LAND USE

LAND USE

Has the area served by this project been covered by an adopted municipal comprehensive plan?	Yes
Is this project located in an area where there is an adopted county comprehensive plan?	Yes
Is there an adopted multi-municipal or multi-county comprehensive plan for the area(s) covered by this project?	No

Is there an adopted county or municipal zoning ordinance or a joint municipal zoning ordinance for the area covered by this project? Yes

Is the proposed project consistent with these comprehensive plans and/or zoning ordinances? Yes

Is the project consistent with county agricultural preservation efforts. No

COMMENTS

PROJECT SPECIFIC DATA : DRINKING WATER SUPPORTING PROJECT INFORMATION

DRINKING WATER COST BREAKDOWN

Planning & Design Only :	\$0.00	0.00%
Source Development Amount:	\$0.00	0.00%
Transmission Amount:	\$0.00	0.00%
Treatment Amount:	\$0.00	0.00%
Finished Water Storage Amount:	\$0.00	0.00%
Distributed System Amount:	\$0.00	0.00%
Pump Stations Amount:	\$68,775,000.00	100.00%
Meters Amount:	\$0.00	0.00%
Safety/Security Amount:	\$0.00	0.00%
Purchase of Systems Amount:	\$0.00	0.00%
Restructing Amount:	\$0.00	0.00%
Land Acquisiton Amount:	\$0.00	0.00%
Total:	\$68,775,000.00	

DRINKING WATER COMPLIANCE

Does the project help to bring the facility back into compliance with existing or future State or Federal regulatory requirements?

No

If yes, enter what percentage of the project meets that criteria:

Does the project help the facility to maintain current compliance?

Yes

If yes, enter what percentage of the project meets that criteria:

95%

Does the project help the facility to achieve compliance with upcoming requirements?

No

If yes, enter what percentage of the project meets that criteria

Does the project assist the facility with other non-compliance related activities?

Yes

If yes, enter what percentage of the project meets that criteria:

5%

DRINKING WATER ENHANCEMENT

Does the project help enhance well capacity? (source development/upgrade)

No

If yes, the impact is:

Does the project enhance treatment plant capacity?

No

If yes, the impact is:

Direct

Does the project enhance security measures at the drinking water facility?

Yes

If yes, the impact is:

Direct

Does project enhance public safety? (Fire hydrants and related)

No

If yes, the impact is:

COMMENTS

DRINKING WATER BENEFITS

COMMUNITY HEALTH (DRINKING WATER)

Explain any existing environmental condition that will be addressed with the project (example: sludge handling facility).

N/A

How will this project improve the quality of life for the system customers?

SOURCE WATER PROTECTION (DRINKING WATER)

If this project WILL increase the available water, please explain.

If this project promotes water conservation, please explain.

If this project includes or promotes water system consolidation, please explain efforts to consolidate/regionalize.

PUBLIC SAFETY (DRINKING WATER)

Will this project address replacement or major rehabilitation of an unsafe water supply storage tank? No

Does this project include installation or replacement of fire hydrants? No

Does this project include work to address workplace safety standards? Yes

Will this project address issues related to water source and/or system security? No

Will this project allow the system to meet fire codes - quantity/pressure for fire protection? No

PUBLIC HEALTH (DRINKING WATER)

Will this project eliminate critical or chronic health hazards?

Violation of Primary Maximum Contaminant Level (MCL)? List the contaminant along with the exceedance and frequency of exceedance, if applicable.

Presence of coliform or fecal coliform?

No water available at the tap?

Giardia or Cryptosporidium Cysts in the filtered water?

DEP COMPLIANCE (DRINKING WATER)

If this project satisfies a compliance order or to address a problem with acute health or safety hazards (example Primary MCL violation), please explain.

If this project satisfies compliance with issues where a compliance order has not been issued or that are not an acute health or safety hazard, please explain.

If this project has components that take proactive steps to maintain compliance and ensure adequate operation and maintenance of the water system, please explain?

COMMENTS

Construction of the station will allow for the installation of 13.2kV to 4.16kV transformers and switchgear, reducing station voltage and increasing safety for operators.

BENEFITS : NON-POINT SOURCE

NPS SUB TYPES

Not Applicable

EXPLANATION FOR OTHER NON-POINT SOURCE SUB TYPE

NPS COMPLIANCE WITH ACT 167 AND MS-4

Is the project in an MS-4 regulated community (with either a draft or final permit)?

If Yes, does the MS-4 permit require the work that is proposed in the funding application?

NPS PLANNING

Is your project addressing a Department of Environmental Protection approved 319 Watershed Implementation Plan (WIP), or contained in an Municipal Separate Storm Sewer System (MS4) Pollutant Reduction Plan (PRP), or Total Maximum Daily Load (TMDL) strategy plan that is submitted for an MS4 Notification of Intent (NOI) permit application.

If Yes, please explain:

If No, will your project implement Best Management Practices (BMP) identified as needed to improve water quality in a water quality plan?

If Yes, please explain:

URBAN RUNOFF PROJECTS

What is the total area treated by BMP in acres?

What is the impervious area treated by each BMP in acres?

What is the runoff or storage volume in acre-ft for each BMP?

AGRICULTURAL PROJECTS

How many animals are currently at the project site?

Explain what manure management controls or BMPs are currently being implemented and what is the state of their condition?

What is the name of the receiving stream and how far is the receiving stream from the project site?

Is the receiving stream impaired due to agriculture and/or sediment?

What is the estimated annual nitrogen reduction to the stream as a result of the project?

What is the estimated annual phosphorus reduction to the stream as a result of the project?

What is the estimated annual sediment reduction to the stream as a result of the project?

NPS SAFETY

If the project addresses a critical or on-going safety or health hazard, please explain.

BROWNFIELDS SYSTEM INFORMATION

Who owns the property to be remediated?

Does the project site have ACT 2 Clearance, or will the project site obtain ACT 2 Clearance as a result of project?

Will the owner's company be completing any of the construction (force account)?

Can you provide evidence that all federal supercrosscutters have been met? If so, please upload any evidence of federal supercrosscutters compliance.

Is the cost of acquiring the land to be remediated as part of this project?

Do you have a survey and title search of the real estate to be used for collateral; including title insurance policies and endorsements?

Do you have 'as is', 'as remediated' or 'as developed' appraisals of any real estate to be used for collateral?

NPS WATER QUALITY IMPACTS

Identify the receiving water(s) impacted by this project.

Describe the length stream or acres of lake that will show water quality improvement as a result of your project.

Is the receiving water(s) listed as impaired on the PA Integrated Water Quality and Assessment Report?

If Yes, list the causes of impairment.

If Yes, identify the benefits of the project on water quality.

If Yes, how are the benefits of the project linked to the impairment?

Is the receiving water(s) listed as high quality (HQ) or exceptional value (EV) by DEP?

If Yes, list the pollutant(s) to be a threat to the HQ/EV existing use.

If Yes, list the source of water quality data/report that documents the threat to HQ/EV.

If Yes, explain how the benefits of the project will remove the threat to HQ/EV.

The receiving water(s) or groundwater is not listed as impaired or HQ/EV by the DEP, but has identified water quality problems:

If Yes, list the source of water quality data, assessment report, or watershed plan that documents the water quality problems.

If Yes, explain how the project will have a direct and substantial benefit in addressing the documented water quality problems.

If Yes, will this project have direct pollutant benefits to waters beyond the immediate receiving waters (e.g. Chesapeake Bay Estuary, Gulf of Mexico, Lake Erie, or Delaware Estuary)? Please explain.

NPS COMPLIANCE

Has DEP taken enforcement action(order or consent order and agreement) or issued a Notice of Violation which requires the project?

Is there an approved Total Maximum Daily Load(TMDL) which requires reductions in the pollutants(s) to be controlled by the project?

COMMENTS

INCOME

COUNTY MUNICIPALITY & APPLICATION LEGISLATIVE

Primary	County	Municipality	System Served	Project Served	Households Served	Bulk
<input checked="" type="checkbox"/>	Philadelphia	Philadelphia City	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	432,268	<input type="checkbox"/>
					Total:	
					432268	

Primary	District	Congress Name	District	House Name	District	Senate Name
<input checked="" type="checkbox"/>	3	Evans, Dwight	195	Harris, Keith	3	Street, Sharif

BILLING

	Last Completed Audited Year	First Full Year After Project is Completed
	2023	2031
Estimate Population	1,567,258	1,567,258
Households served by System	432,268	432,268
Total EDUs served by system	837,412	837,412
Residential EDUs served by system	432,268	432,268
Average annual Residential bill	\$339.00	\$480.00
Total residential bills levied	\$146,383,236.00	\$207,439,880.00
Total residential bills collected	\$146,383,236.00	\$207,439,880.00
Total Commercial/Industrial bills levied	\$162,859,480.00	\$221,488,892.00
Total Commercial/Industrial bills collected	\$162,859,480.00	\$221,488,892.00

INCOME FOR GOVERNMENT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2023	2031
Total Bills Collected	\$309,242,715.00	\$428,928,772.00
Other Charges Collected	\$7,685,760.00	\$8,454,336.00
Total Operating Revenues	\$316,928,475.00	\$437,383,108.00
Non-Operating Revenues	\$13,444,973.00	\$14,789,470.00
Total Income	\$330,373,448.00	\$452,172,578.00

INCOME FOR PROFIT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2023	2031
Sales of Products	\$0.00	\$0.00
Investment Income	\$0.00	\$0.00
Rental Income	\$0.00	\$0.00
Other Income	\$0.00	\$0.00
Total Income	\$0.00	\$0.00

INCOME FOR NON-PROFIT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2023	2031

Provisions of Services	\$0.00	\$0.00
Government Grants Subsidies	\$0.00	\$0.00
Program Services	\$0.00	\$0.00
Investment Income	\$0.00	\$0.00
Contribution from Donors	\$0.00	\$0.00
Rental Income	\$0.00	\$0.00
Other Income	\$0.00	\$0.00
Total Income	\$0.00	\$0.00

OPERATING EXPENSES

	Last Completed Fiscal Year	First Full Year After Project Completed
	2023	2031
Labor Salaries Benefits	\$102,079,408.00	\$117,391,319.00
Utilities	\$0.00	\$0.00
Rent	\$0.00	\$0.00
Materials/Supplies	\$27,630,953.00	\$33,157,143.00
Cost of Goods Sold	\$0.00	\$0.00
Program Expenses	\$0.00	\$0.00
Administration Expenses	\$4,275,969.00	\$4,489,768.00
Professional Fees	\$48,448,188.00	\$49,901,634.00
Depreciation Expense	\$53,426,840.00	\$56,098,182.00
Other Expenses	\$0.00	\$0.00
Outside Services	\$0.00	\$0.00
Total (Minus Depreciation Expense)	\$182,434,518.00	\$204,939,864.00

NON-OPERATING EXPENSES

	Last Completed Fiscal Year	First Full Year After Project Completed
	2023	2031
Annual Debt Service Excluding This Project	\$66,864,000.00	\$101,228,064.00
Other Non-Operating Expenses	\$514,405.00	\$540,125.00
Total	\$67,378,405.00	\$101,768,189.00

NET CASH

	Last Completed Fiscal Year	First Full Year After Project Completed
	2023	2031
Total Cash	\$0.00	\$0.00

Total Cash Expenses	\$249,812,923.00	\$306,708,053.00
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Total Cash (Minus Total Cash Expenses)	\$0.00	\$0.00
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COMMENTS

Here is a list of municipalities served by PWD on the water side.

Main Sys Montgomery Abington Main Sys Montgomery Bryn Athyn Main Sys Montgomery Cheltenham Main Sys Montgomery Conshohocken Main Sys Montgomery Hatboro Main Sys Montgomery Horsham Main Sys Montgomery Jenkintown Main Sys Montgomery Lower Merion Main Sys Montgomery Lower Moreland Main Sys Montgomery Narberth Main Sys Montgomery Plymouth Main Sys Montgomery Rockledge **Main Sys Montgomery Springfield (Montco)** Main Sys Montgomery Upper Dublin Main Sys Montgomery Upper Merion Main Sys Montgomery Upper Moreland Main Sys Montgomery West Conshohocken Main Sys Montgomery Whitemarsh Main Sys Delaware Aldan Main Sys Delaware Aston Main Sys Delaware Chester Heights Main Sys Delaware Clifton Heights Main Sys Delaware Collingdale Main Sys Delaware Colwyn Boro Main Sys Delaware Darby Boro Main Sys Delaware Darby Twp Main Sys Delaware East Lansdowne Main Sys Delaware Eddystone Main Sys Delaware Edgmont Main Sys Delaware Folcroft Main Sys Delaware Glenolden Main Sys Delaware Haverford Main Sys Delaware Lansdowne Main Sys Delaware Marple Main Sys Delaware Media Main Sys Delaware Middletown (Delco) Main Sys Delaware Millbourne Main Sys Delaware Morton Main Sys Delaware Nether Providence Main Sys Delaware Newtown (Delco) Main Sys Delaware Norwood Main Sys Delaware Prospect Park Main Sys Delaware Radnor Main Sys Delaware Ridley Park Boro Main Sys Delaware Ridley Twp Main Sys Delaware Rose Valley Main Sys Delaware Rutledge Main Sys Delaware Sharon Hill **Main Sys Delaware Springfield (Delco)** Main Sys Delaware Swarthmore **Main Sys Delaware Thornbury (Delco)** Main Sys Delaware Tinicum (Delco) Main Sys Delaware Upper Darby Main Sys Delaware Upper Providence (Delco) Main Sys Delaware Yeadon Main Sys Chester Birmingham Main Sys Chester Charlestown Main Sys Chester East Bradford Main Sys Chester East Caln Main Sys Chester East Goshen Main Sys Chester East Whiteland Main Sys Chester Easttown Main Sys Chester Malvern Main Sys Chester Phoenixville Main Sys Chester Schuylkill **Main Sys Chester Thornbury (Chester)** Main Sys Chester Tredyffrin Main Sys Chester Upper Uwchlan Main Sys Chester Uwchlan Main Sys Chester Wallace Main Sys Chester West Chester Main Sys Chester West Goshen Main Sys Chester West Pikeland Main Sys Chester West Vincent Main Sys Chester West Whiteland Main Sys Chester Westtown Main Sys Chester Willistown Main Sys Bucks Bensalem Main Sys Bucks Bristol Boro Main Sys Bucks Bristol Twp Main Sys Bucks Lower Southampton Main Sys Bucks Upper Southampton Main Sys Bucks Warminster Main Sys Bucks Warwick (Bucks Co) Twp

DEBT

DEBT

Note Holder Date of Loan / Issued Original Principal Interest Rate Term Months

\$

COMMENTS

As of September 30, 2024, \$3,176,031,686 aggregate principal amount of Water and Wastewater Revenue Bonds is outstanding.

BUDGET INFORMATION

PROJECT BUDGET

Administrative Cost:	\$0.00
Legal Fees:	\$0.00
Financial/Accounting Charges:	\$0.00
Interest During Construction:	\$0.00
Engineering/Architecture Fees:	\$0.00
Permits:	\$0.00
Land	\$0.00
Construction	\$65,500,000.00
Contingency	\$3,275,000.00
Other Costs:	\$0.00
Total:	\$68,775,000.00

COMMENTS

RATES

RATES

Metered:	Monthly
Flat:	Not Selected Yet
Other:	Not Selected Yet

Explain special rate structure or agreement. Indicate if no rates apply for this project.

COMMENTS

The Water Department initiated a general rate increase proceeding (the "2023 Rate Proceeding") for Fiscal Years 2024 and 2025 by filing, on January 24, 2023, its Advance Notice of proposed changes in water, sewer, and stormwater rates and

related charges to take effect on or about September 1, 2023 and September 1, 2024. On February 23, 2023, the Water Department filed its Formal Notice of proposed changes in rates and charges. Standard prehearing conferences and orders were issued, and discovery requests and responses were submitted consistent with the prehearing order from the period of March through April 2023. Four public input hearings were conducted. Pursuant to the schedule, direct testimony was filed by interveners in the proceeding on April 12, 2023. Rebuttal testimony was filed by the Water Department on April 26, 2023. Hearings were held on May 2 through May 5, 2023 and briefs were filed on May 16, 2023. The Hearing Officer's report was delivered on May 30, 2023. Exceptions to the Hearing Officer's Report were filed on June 5, 2023. The Rate Board rendered its rate determination on June 21, 2023. The Rate Board authorized an increase in base rate revenues of \$61.022 million in Fiscal Year 2024 and an additional increase of \$57.015 million in Fiscal Year 2025. Taking into account the Rate Board's 2023 Annual TAP-R Adjustment Proceeding, the overall approved increases amount to \$172.5 million over Fiscal Years 2024 and 2025.

Water rates for general service customers of the Water Department consist of a service charge related to the size of the meter, plus a schedule of quantity charges for water use. Sewer rates for general service customers are similar. To more fairly reflect the burden on the System, stormwater charges are calculated based on a customer's property size and its relative imperviousness. A uniform stormwater charge based on the average size and imperviousness of residential properties is billed to residential customers.

Charges to non-residential and condominium customers are based on each property's specific size and impervious area.

Special rates with partial discounts are established pursuant to the Water Department's Rates and Charges for the following customers: (1) public and private schools which provide instruction up to or below the twelfth grade; (2) institutions of "purely public charity;" (3) places used for religious worship; (4) residences of eligible senior citizens; (5) universities and colleges; and (6) public housing properties of the Philadelphia Housing Authority. In addition, the Rate Board approved discounts of 100% on stormwater rates for eligible community gardens in 2016 and an exemption from water, sewer and stormwater rates for unoccupied properties of the Philadelphia Land Bank in 2018. Some real estate also is exempt from stormwater charges, including, cemeteries, residential sideyards, City-owned or City-controlled vacant lots or improvements, portions of Fairmount Park, streets, medians, sidewalks, and rightsof-way. Water and sewer charges, including stormwater charges, terminate when any vacant or unoccupied premises are acquired by the City and when property is acquired by the Philadelphia Housing Development Corporation or the Philadelphia Redevelopment Authority under provisions of the Philadelphia Code pertaining to vacant properties.

In addition to the special rates referenced above, the Water Department offers additional assistance and incentive programs to customers, which constitute either an Operating Expense of the Water Department or contra-revenue in the form of credits or reductions to customers' bills. The Tiered Assistance Program ("TAP") program was launched on July 1, 2017 and assists low-income households at or below 150% of the federal poverty level ("FPL") and those experiencing a special hardship, as discussed herein. Under the TAP program bills are tied to household income and do not fluctuate based on actual consumption.

