

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY
PENNVEST APPLICATION FORMS**

**City of Philadelphia
City of Philadelphia 2024 Linear Assets - Sewer
512033132210-CS
02/22/2023**

DESCRIPTION	
PROJECT DESCRIPTION	
What is the project type?	Wastewater
What is the project name?	City of Philadelphia - 2024 Linear Assets - Sewer
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. \$44,876,716.00

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. \$44,876,716.00

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	

Allen, Valarie		Borrower Legal	
Ballard Spahr, LLP		Email:	allenv@ballardspahr.com
		Phone:	2157041422
		Phone Ext:	

Cavacini, Laura		Borrower Legal	
		Email:	cavacini@ballardspahr.com
		Phone:	2672517659
		Phone Ext:	

French, Christian		DEP Project Manager	
		Email:	chfrench@pa.gov
		Phone:	4842505178
		Phone Ext:	

Giffear, James		Borrower	
Philadelphia Water Department		Email:	jim.giffear@phila.gov
		Phone:	2153802132
		Phone Ext:	

Gupta, Tuhin		Engineer Admin	
		Email:	tgupta@cedarvilleeng.com
		Phone:	
		Phone Ext:	

Hayden, Rebecca		Project Specialist	
		Email:	rhayden@pa.gov
		Phone:	7177834488
		Phone Ext:	

Jameson, Jerry		Engineer Admin	
Cedarville Engineering Group		Email:	jjameson@cedarvilleeng.com

	Phone: 2158022889
	Phone Ext:

Kaniyampampil, Sebastian	Borrower's Admin
	Email: Sebastian.kaniyampampil@phila.gov
	Phone: 2156020644
	Phone Ext:

Kim, Peter	Borrower Legal
	Email: kimp@ballardspahr.com
	Phone:
	Phone Ext:

Linn, Chris	Guest
	Email: clinn@dvrpc.org
	Phone: 2158705889
	Phone Ext:

Mahoney, Elizabeth	DEP Chief
	Email: emahoney@pa.gov
	Phone: 4842505190
	Phone Ext:

Owen, Miles	Guest
Delaware Valley Regional Planning Commission	Email: mowen@dvrpc.org
	Phone:
	Phone Ext:

Primiani, Teresa	Engineer Admin
	Email: tprimiani@cedarvilleeng.com
	Phone:
	Phone Ext:

Quinlan, Ian	DEP Project Manager
	Email: iquinlan@pa.gov
	Phone: 4842505726
	Phone Ext:

Reitbauer, Amanda	Engineer Admin
Cedarville Engineering Group	Email: areitbauer@cedarvilleeng.com

	Phone: 6107802949
	Phone Ext:

Rogalski, Patricia	Borrower
	Email: Patricia.rogalski@phila.gov
	Phone: 2672307084
	Phone Ext:

Rogalski, Patricia	Borrower
	Email: Patricia.rogalski@phila.gov
	Phone: 2672307084
	Phone Ext:

Rosini, Angela	Engineer Admin
	Email: arosini@cedarvilleeng.com
	Phone: 2676646723
	Phone Ext:

Yangalay, Lawrence	Borrower
Philadelphia Water Department	Email: Lawrence.yangalay@phila.gov
	Phone:
	Phone Ext:

PROJECT SITE(S)

City of Philadelphia	Primary Site
Address: 1401 John F Kennedy Boulevard Philadelphia, PA 19102	Latitude: 39.9540966 Longitude: -75.1644793

40857 - Carlisle / 15th	
Address: 822 15th Avenue Prospect Park, PA 19076	Latitude: 39.890336 Longitude: -75.312993

40907 - Etting/Napa/ Corlies/Marston	
Address:	Latitude: 39.93695655

1322 South Corlies Street Philadelphia, PA 19146	Longitude: -75.1942815
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40926 - Amber/Braddock/Helen/Joyce

Address: 3518 Joyce Street Philadelphia, PA 19134	Latitude: 39.99753398 Longitude: -75.1032625
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40981 - Fitzgerald/American/Daly

Address: 428 Fitzgerald Street Philadelphia, PA 19148	Latitude: 39.91910998 Longitude: -75.1549618
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40987 - Broomall/Malcolm/56th etal

Address: 5619 Broomall Street Philadelphia, PA 19143	Latitude: 39.94353706 Longitude: -75.2331942
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41012 - 8th/Franklin

Address: 2427 South 8th Street Philadelphia, PA 19148	Latitude: 39.91874738 Longitude: -75.1606833
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41031 - Butler / Pike / Lawrence

Address: 443 West Butler Street Philadelphia, PA 19140	Latitude: 40.00893281 Longitude: -75.1360483
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41048 - Venango, Kensington - Frankford

Address: 3562 Stouton Street Philadelphia, PA 19134	Latitude: 40.00010201 Longitude: -75.1038411
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41075 - Shunk / Mildred / Darien / 9th / Hutchinson

Address: 2628 South Darien Street Philadelphia, PA 19148	Latitude: 39.91630625 Longitude: -75.1622566
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41077 - Brandywine / 19th / 23rd / Pennsylvania

Address: 2216 Brandywine Street Philadelphia, PA 19130	Latitude: 39.96489408 Longitude: -75.1751032
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41079 - Cantrell / Daly / Jackson / Winton / 8th	
Address: 1023 Jackson Street Philadelphia, PA 19148	Latitude: 39.92237368 Longitude: -75.1639277

41102 - Clarion / Iseminger / Juniper / 11th	
Address: 2424 South Iseminger Street Philadelphia, PA 19148	Latitude: 39.91968318 Longitude: -75.16797

41114 - Hoffman / Dudley / Mifflin / 4th / 5th . McKean	
Address: 523 Hoffman Street Philadelphia, PA 19148	Latitude: 39.92457778 Longitude: -75.1554033

41118 - Belmar / Beaumont / Florence / Litchfield	
Address: 5632 Litchfield Street Philadelphia, PA 19143	Latitude: 39.93980922 Longitude: -75.2294548

41127 - Fontain / 16th / Cleveland / Gratz	
Address: 2018 North Cleveland Street Philadelphia, PA 19121	Latitude: 39.98455308 Longitude: -75.1637191

41133 - Pine / Addison / Larchwood / Irving	
Address: 400-16 South 52nd Street Philadelphia, PA 19143	Latitude: 39.9536581 Longitude: -75.2272161

PROJECT PLAN
PROJECT PLAN

Planning Consultation Date	09/15/2022
Planning Completion Date	09/22/2022
Design Start Date	06/28/2020
Design Completed Date	06/28/2021
Date Obtained All Needed DEP Permits	06/28/2021
Anticipated Construction Start Date	06/05/2023
Anticipated Construction End Date	02/03/2025
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 sewer reconstruction aims to address sewer collapses and capacity issues. Sewer collapses can result in sewer backups through plumbing fixtures into homes and surface flooding through fresh air intakes. Sewer collapses can also result in street cave ins which can be hazardous to vehicle and pedestrian traffic. Undersized sewers can result in sewer surcharging and flooding during rain events. Addressing sewer deficiencies prior to collapse will minimize the risk to public health and reduce the impacts from street closures and emergency repairs.

Philadelphia has one of the oldest collection systems in the country. The collection system was constructed in two major phases. The first phase was from the 1890s through the 1930s which accounted for brick sewers that make up the combined sewer system. The second phase was from the 1950s through the 1970s which accounted for reinforced concrete and vitrified clay sewers in the MS4 area as the city expanded. The combined system comprises over 60% of the collection system and has a length weighted average age of 94 years. The average age of the separate storm sewer system (MS4) is 65 years which is mostly concentrated in northeast Philadelphia. Over 488 miles of sewer or 13% of the total system was constructed prior to 1900. The goal of the PWD Linear Asset Planning Program is to optimize the collector system operation by prioritizing sewer improvement projects within PWD's Capital Improvement Program.

The Philadelphia Water Department (PWD) owns over 3,368 miles of sewer mains throughout the City and is proposing the reconstruction of approximately 7.33 miles utilizing PENNVEST funding. PWD sewer main reconstruction comprises sewer main installation, manhole replacement or addition depending on the sewer length, replacement of the sewer slants to the curb trap, and surface restoration. Sewers that were selected for this project are targeted for reconstruction based on either the sewer condition and/or the hydraulic capacity. PWD at this time doesn't have a sewer asset risk model to assign a risk score to each asset. Instead, sewer assessment through CCTV Inspections and hydraulic studies are used to prioritize the locations. Sewers with major structural defects are selected for reconstruction after all renewal options are exhausted. Sewers that can be renewed via repairs or sewer lining technologies improve the age of the system without being cost prohibitive.

Sewer collapses can result in sewers backing up through plumbing fixtures or fresh air inlets or street cave-ins. Replacement and renewal of the sewer will reduce the frequency of collapses and minimize the risk to public health from wastewater exposure as well as reduce the impact from street closures required from emergency repairs.

There is a strong need for this project to replace the sewer and water lines to ensure safety, health, and longevity of the sewer systems.

Sewer Condition:

The sewer has been identified for reconstruction based on the results of CCTV Inspections. The amount and severity of the structural defects prevent rehabilitation of the sewer.

Sewer Hydraulics:

The sewer has been identified for reconstruction based on the hydraulic capacity of the sewer not meeting PWD's level of service.

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 replace, 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...'

The City will install 33,007 lf of sanitary sewer line (24,665 feet of 18" pipe, 5,286 feet of 21" pipe, 677 feet of 24" pipe, 652 feet of 27" pipe, 252 feet of 30" pipe, 860 feet of 36" pipe, 615 feet of 42" pipe) and perform lining of 3,375 of pipe.

Each section of this project is located within the roadways. The project work numbers and locations are:

40857 - Carlisle/15th

40907 - Etting/Napa/Corlies/Martson

40926 - Amber/Braddock/Helen/Joyce

40981 - Fitzgerald/American/Daly

40987 - Broomall/Malcolm/56th etal

41012 - 8th/Franklin

41031 - Butler/Pike/Lawrence

41048 - Venango, Kensington – Frankford

41075 - Shunk/Mildred/Darien/9th/Hutchinson

41077 - Brandywine/19th/23rd/Pennsylvania

41079 - Cantrell/Daly/Jackson/Winton/8th

41102 - Clarion/Iseminger/Juniper/11th

41114 - Hoffman/Dudley/Mifflin/4th/5th/McKean

41118 - Belmar/Beaumont/Florence/Litchfield

41127 - Fontain/16th/Cleveland/Gratz

41133 - Pine/Addison/Larchwood/Irving

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.

Program Level Alternative Analysis
These projects are to replace the existing aging sewer line. There is no alternative to replacement.

Site Scale Alternatives Analysis
No site scale alternatives were evaluated.

Project Useful Life
The project service life of the replaced sewer line is anticipated to be 100+ years which exceeds the PennVEST loan duration. PWD sewer lines typically have a service life that exceeds 80 years. It is anticipated that new pipes will last 80-200 years. The City's useful / depreciable life for the assets is approximately 50 years.

Cost Effective Analysis
Sewer selected for this project are among the City's oldest and were selected for reconstruction based on one of two triggers: (1) the results of CCTV Inspections showing pipe with an amount and severity of structural defects prevent rehabilitation of the sewer or (2) The sewer has been identified for reconstruction based on the hydraulic capacity of the sewer not meeting PWD's level of service. The Word document "Pennvest_project_triggers" uploaded as part of this application indicates the trigger for sewer replacement for each project location.

Conclusion
Replacement and modernization of the aged sewer will elevate the resilience and reliability of the City's sewer infrastructure to provide more reliable service.

COMMENTS

NARRATIVE : WASTEWATER SUPPORTING PROJECT INFORMATION

WATERWATER SUPPORTING PROJECT INFORMATION

Category/Subcategory	Total
Sanitary Sewer Lines / Rehab/Replace Lines (Feet)	39,600

COMMENTS

PROJECT SPECIFIC DATA : WASTEWATER SUPPORTING PROJECT INFORMATION

WASTEWATER COST BREAKDOWN

Secondary Treatment:	\$0.00	0.00%
Advanced Treatment:	\$0.00	0.00%
Treatment Greater Than Secondary:	\$0.00	0.00%
Infiltration/Inflow Reduction:	\$0.00	0.00%

Sanitary Sewer Replacement/Rehabilitation:	\$44,876,716.00	100.00%
New Collection Sewers:	\$0.00	0.00%
New Interceptors:	\$0.00	0.00%
Elimination/Correction of Combined Sewer Overflows:	\$0.00	0.00%
Storm Sewers:	\$0.00	0.00%
Recycled Water Distribution:	\$0.00	0.00%
Total:	\$44,876,716.00	

WASTEWATER COMPLIANCE

Will this project bring a wastewater facility into compliance with public health and water quality standards? No

Will this project install best management practices (BMP's) for a non-point source project? No

Will this project reclaim a brownfield site? No

If this project eliminates Combined Sewer Overflow(CSO) discharge points, how many?

If this project improves the water quality in a stream or streams, how many?

If this project eliminates malfunctioning on-lots septic systems, how many?

If this project eliminates raw sewage discharges from wildcat systems, how many?

COMMENTS

BENEFITS WASTEWATER

INFRASTRUCTURE HEALTH (WASTEWATER)

Will this project address hydraulic overloading that results in sewage backing up into basements of structures? No

Does the system have an up-to-date Emergency Response Plan? Yes

Does the system have an up-to-date Asset Management Plan? Yes

If the rates being charged by the system are NOT sufficient to implement the system's long term budget, please explain.

COMMUNITY HEALTH (WASTEWATER)

If this project WILL eliminate one or more existing National Pollutant Discharge Elimination System (NPDES) discharges, please explain.

Not applicable.

If this project WILL eliminate all NPDES - system permitted combined sewer overflow (CSO) points in a combined wastewater collection/conveyance, please explain.

Not applicable.

If this project WILL result in consolidation or regionalization of operational, maintenance, or monitoring functions with other discharges, please explain.

Not applicable.

PUBLIC HEALTH (WASTEWATER)

If this project eliminates on-lot disposal systems that have been confirmed as malfunctioning, how many were tested?

Not applicable.

Provide the percentage of confirmed malfunctions

Not applicable.

Will this project eliminate untreated or inadequately treated sewage discharged from collection and conveyance?	No
Will this project address Wet Weather discharges?	No
Will this project address Dry Weather discharges?	No

If any downstream public bathing beaches have been closed due to water quality standards directly related to this facility, please explain.

Not applicable.

If public water supply sources or private wells are subject to contamination that will be addressed by this project, please explain.

Not applicable.

AQUATIC HEALTH (WASTEWATER)

If this project eliminates a wildcat sewer system discharge, please explain:

Not applicable.

Number of EDU's in the project service area?

Work Order # Total Parcels Served

40857	148
40907	302
40926	326
40981	248
40987	338
41012	221
41031	95
41048	142
41075	316
41077	183
41079	389
41102	368
41114	302
41118	295
41127	203
41133	237

Number of EDU's served by wildcat sewers in the project service area?

0

Is this treatment facility hydraulically overloaded during dry weather? No

Is this treatment facility hydraulically overloaded during wet weather? No

Please name the surface water bodies impacted by this project and do these surface water bodies support cold or warm water fishery, please explain.

Not applicable.

DEP COMPLIANCE (WASTEWATER)

Is this project part of an approved Corrective Action Plan schedule to bring the wastewater facility into compliance with an NPDES permit? No

If this project satisfies a non-compliance consent order and agreement at a wastewater treatment facility or wastewater collection/conveyance facility, please explain.

Is this project necessary to upgrade treatment facilities as a result of an NPDES permit? No

COMMENTS

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

KEYSTONE BENEFITS

KEYSTONE BENEFITS

If any of the communities served by this project have been granted special economic designation by the Department of Community and Economic Development or by the Governor's Action Team, please identify the program and the municipality(ies) and county(ies).

Not applicable.

If any of the communities served by this project have been designated as distressed under the Municipalities Financial Recovery Act 47 of 1987, please identify the municipality(ies) and county(ies).

Not applicable.

If this project directly serves a Brownfield site as designated by the PA Department of Environmental Protection, please identify the site.

Not applicable.

If this project serves a City, Borough or 1st Class Township, please identify.

This project serves the City of Philadelphia.

COMMENTS

GREEN INFRASTRUCTURE COMPONENTS

GREEN INFRASTRUCTURE

If the project results in reduced (minimum 20%) water use, please explain.

Not applicable.

If the project recycles water, please explain.

Not applicable.

If the project reduces (minimum 20%) infiltration of water into sewer pipes being repaired/replaced, please explain.

If the project reduces (minimum 20%) leakage from the water pipes being repaired/replaced, please explain.

Not applicable.

Will this project reduce facility and/or better manage energy consumption?

If the project saves energy (minimum 20%), please explain.

Not applicable.

If this project generates energy, what percent?

Not applicable.

If the project infiltrates evapo-transpires or controls stormwater, please explain.

Not applicable.

If the project implements Ag BMP's, Low-Impact Development, wetland restoration or construction, greenhouse gas reduction, or applies differential uses of water treated to varying levels, please explain.

Not applicable.

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"/>	1,576,251	<input type="checkbox"/>
						Total: 1576251	
Primary	District	Congress Name	District	House Name	District	Senate Name	
<input checked="" type="checkbox"/>	3	Evans, Dwight	186	Harris, Jordan	8	Williams, Anthony	
<input type="checkbox"/>	2	Boyle, Brendan	180	Giral, Jose	2	Tartaglione, Christine	
<input type="checkbox"/>	3	Evans, Dwight	184	Fiedler, Elizabeth	1	Saval, Nikil	
<input type="checkbox"/>	3	Evans, Dwight	188	Krajewski, Rick	8	Williams, Anthony	
<input type="checkbox"/>	3	Evans, Dwight	195	Harris, Keith	3	Street, Sharif	
<input type="checkbox"/>	3	Evans, Dwight	190	Green, G. Roni	7	Hughes, Vincent	

BILLING

	Last Completed Audited Year	First Full Year After Project is Completed
	2021	2026
Estimate Population	1,576,251	1,576,251
Households served by System	415,317	415,317
Total EDUs served by system	1,305,838	1,305,838
Residential EDUs served by system	415,317	415,317
Average annual Residential bill	\$830.00	\$830.00
Total residential bills levied	\$0.00	\$0.00
Total residential bills collected	\$659,765.00	\$659,765.00
Total Commercial/Industrial bills levied	\$0.00	\$0.00
Total Commercial/Industrial bills collected	\$43,283.00	\$43,283.00

INCOME FOR GOVERNMENT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2021	2026
Total Bills Collected	\$703,048.00	\$703,048.00
Other Charges Collected	\$15,524.00	\$15,524.00
Total Operating Revenues	\$718,572.00	\$718,572.00
Non-Operating Revenues	\$1,095.00	\$1,095.00
Total Income	\$719,667.00	\$719,667.00

INCOME FOR PROFIT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2021	2026
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
	2021	2026
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
	2021	2026
Labor Salaries Benefits	\$276,722.00	\$276,722.00
Utilities	\$0.00	\$0.00
Rent	\$0.00	\$0.00
Materials/Supplies	\$35,235.00	\$35,235.00
Cost of Goods Sold	\$0.00	\$0.00
Program Expenses	\$0.00	\$0.00
Administration Expenses	\$3,233.00	\$3,233.00
Professional Fees	\$95,875.00	\$95,875.00
Depreciation Expense	\$134,748.00	\$134,748.00
Other Expenses	\$0.00	\$0.00
Outside Services	\$0.00	\$0.00
Total (Minus Depreciation Expense)	\$411,065.00	\$411,065.00

NON-OPERATING EXPENSES

	Last Completed Fiscal Year	First Full Year After Project Completed
	2021	2026
Annual Debt Service Excluding This Project	\$70,560.00	\$70,560.00
Other Non-Operating Expenses	\$20,071.00	\$20,071.00
Total	\$90,631.00	\$90,631.00

NET CASH

	Last Completed Fiscal Year	First Full Year After Project Completed
	2021	2026
Total Cash	\$719,667.00	\$719,667.00
Total Cash Expenses	\$501,696.00	\$501,696.00
Total Cash (Minus Total Cash Expenses)	\$217,971.00	\$217,971.00

COMMENTS

Households served and Population reflect estimates as of 7.1.21 and detailed:
<https://www.census.gov/quickfacts/philadelphiacitypennsylvania>.
 1,479,196 Sewer EDUs and 916,551 Water EDUs (EDU values represent the 5-year average (2017 to 2021) number of EDUs for that category.) EDU calculation = FY2021 analysis prepared by B&V.
 Annual Typical Residential Bill data as of FY21 \$69.15 * 12 = 829.80
 Annual Typical Residential Bill data as of most recent rate approval (FY23) = 73.62 * 12 = 883.44
 Estimated Allocations and billed as total system.
 Water = \$25
 Sewer = \$18.10
 Stormwater = \$18.05
 Service Charge = \$12.47
 Income / Revenues
 Commercial / Industrial = bulk (wholesale) contract revenues Of \$43.3M
 Other Charges = Operating grants of \$2.7M + Miscellaneous Operating Revenue of \$12.8M

DEBT

DEBT

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

COMMENTS

As of June 30, 2022, there was \$2,435,116,138 aggregate principal amount of Water and Wastewater Revenue Bonds are outstanding. Outstanding Indebtedness as of June 30, 2022*

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	\$42,739,730.00
Contingency	\$2,136,986.00
Other Costs:	\$0.00
Total:	\$44,876,716.00

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.

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 rights-of-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.

COMMENTS