

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY  
PENNVEST APPLICATION FORMS**

**City of Philadelphia**

**Philadelphia City GSI in Saunders Park, Fairmount, South Philly,  
and Harrowgate**

**512033072111-CF**

**11/18/2021**

DESCRIPTION	
PROJECT DESCRIPTION	
What is the project type?	Stormwater
What is the project name?	Philadelphia City GSI in Saunders Park, Fairmount, South Philly, and Harrowgate
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	

The PWD GSI in South Philly, Saunders Park, Fairmount, and Harrowgate PennVEST application includes a total of 4 projects distributed across the areas of Philadelphia served by combined sewers with a total of 18.7 greened acres created. The projects include a combination of green stormwater infrastructure (GSI) to address the City’s Long Term Control Plan Update for Combined Sewer Overflow Control.

- 50180 Saunders Park Streets Improvements Package is composed of 8 GSI systems, a combination of stormwater bumpouts, tree trenches, and infiltration trenches, managing almost 3 acres of drainage area from the right-of-way in the West Philadelphia. The project will result in over 5 greened acres (stormwater storage metric) to count towards Philadelphia’s green stormwater compliance targets. The scope of work will be within the public right-of-way and includes excavation and infiltration testing; installation of inlets, piping, and stormwater storage features; new curbing, paving, and ADA ramps for the limits of disturbance; and the planting of trees and vegetation.
- 50215 Fairmount Neighborhood Bumpouts is composed of 7 GSI systems, a combination of stormwater bumpouts, tree trenches, and infiltration trenches, managing over 3 acres of drainage area from the right-of-way in the Fairmount and Francisville neighborhoods. The project will result in over 4 greened acres (stormwater storage metric) to count towards Philadelphia’s green stormwater compliance targets. The scope of work will be within the public right-of-way and includes excavation and infiltration testing; installation of inlets, piping, and stormwater storage features; new curbing, paving, and ADA ramps for the limits of disturbance; and the planting of trees and vegetation.
- 50219 Shunk Street Greening Improvements is composed of 12 GSI systems, a combination of stormwater bumpouts, tree trenches, and infiltration trenches, managing almost 4 acres of drainage area from the right-of-way in South Philadelphia. The project will result in 6 greened acres (stormwater storage metric) to count towards Philadelphia’s green stormwater compliance targets. The scope of work will be within the public right-of-way and includes excavation and infiltration testing; installation of inlets, piping, and stormwater storage features; new curbing, paving, and ADA ramps for the limits of disturbance; and the planting of trees and vegetation.
- 50234 I Street Green Corridor is composed of 7 GSI systems, a combination of stormwater bumpouts, tree trenches, and infiltration trenches, managing almost 2 acres of drainage area from the right-of-way in the Harrowgate and Kensington neighborhoods. The project will result in almost 3 greened acres (stormwater storage metric) to count towards Philadelphia’s green stormwater compliance targets. The scope of work will be within the public right-of-way and includes excavation and infiltration testing; installation of inlets, piping, and stormwater storage features; new curbing, paving, and ADA ramps for the limits of disturbance; and the planting of trees and vegetation.

SYSTEM	
SYSTEM DESCRIPTION	
What type of system is this?	Existing System
What is your NPDES number?	0026689, 0026662, 0026671, 0054712
What is your PWSID number?	PA1510001

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. \$6,825,000.00

## COMMITTED OTHER SOURCES OF FUNDS

Source Type	Source Name	Source Amount	Funding Comments
		\$	
	<b>Total:</b>	\$0.00	

## ESTIMATED TOTAL PROJECT COST

This is your estimated total project cost. \$6,825,000.00

## COMMENTS

## PROJECT CONTACTS

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

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

Breen, Joseph		Borrower Financial	
		<b>Email:</b> breenj@pfm.com	
		<b>Phone:</b> 2159542683	
		<b>Phone Ext:</b>	

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

Grace, Trisha		Borrower's Admin	
		<b>Email:</b> trisha.grace@phila.gov	
		<b>Phone:</b>	
		<b>Phone Ext:</b>	

<b>Gupta, Tuhin</b>	Engineer Admin
	<b>Email:</b> tgupta@cedarvilleeng.com
	<b>Phone:</b>
	<b>Phone Ext:</b>

<b>Hayden, Rebecca</b>	Project Specialist
	<b>Email:</b> rhayden@pa.gov
	<b>Phone:</b> 7177834488
	<b>Phone Ext:</b>

<b>Hildebrand, Paul</b>	Engineer Admin
	<b>Email:</b> paul.hildebrand@phila.gov
	<b>Phone:</b> 2675928015
	<b>Phone Ext:</b>

<b>Jameson, Jerry</b>	Engineer Admin
Cedarville Engineering Group	<b>Email:</b> jjameson@cedarvilleeng.com
	<b>Phone:</b> 2158022889
	<b>Phone Ext:</b>

<b>Linn, Chris</b>	Guest
	<b>Email:</b> clinn@dvrpc.org
	<b>Phone:</b> 2158705889
	<b>Phone Ext:</b>

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

<b>Primiani, Teresa</b>	Engineer Admin
	<b>Email:</b> tprimiani@cedarvilleeng.com
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	<b>Phone Ext:</b>

<b>Reitbauer, Amanda</b>	Engineer Admin
Cedarville Engineering Group	<b>Email:</b> areitbauer@cedarvilleeng.com
	<b>Phone:</b> 6107802949
	<b>Phone Ext:</b>

<b>Reitbauer, Amanda</b>	Engineer Admin
Cedarville Engineering Group	<b>Email:</b> areitbauer@cedarvilleeng.com
	<b>Phone:</b> 6107802949
	<b>Phone Ext:</b>

<b>Rich, Lawrence</b>	Borrower Financial
	<b>Email:</b> Lawrence.Rich@phila.gov
	<b>Phone:</b> 2155129588
	<b>Phone Ext:</b>

<b>Rogalski, Patricia</b>	Borrower's Admin
	<b>Email:</b> Patricia.rogalski@phila.gov
	<b>Phone:</b> 2672307084
	<b>Phone Ext:</b>

<b>Simmons, Jillian</b>	Engineer PE
	<b>Email:</b> Jillian.Simmons@phila.gov
	<b>Phone:</b>
	<b>Phone Ext:</b>

<b>Wenrich, Philip</b>	DEP HQ
	<b>Email:</b> phwenrich@pa.gov
	<b>Phone:</b>
	<b>Phone Ext:</b>

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

PROJECT SITE(S)

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

50234 I Street Green Corridor	
<b>Address:</b> 3465 I Street Philadelphia, PA 19134	<b>Latitude:</b> 40.000421 <b>Longitude:</b> -75.110426

50219 Shunk Street	
<b>Address:</b> 2556 South Warnock Street Philadelphia, PA 19148	<b>Latitude:</b> 39.917429 <b>Longitude:</b> -75.165472

50215 Fairmount Neighborhood	
<b>Address:</b> 846 North 21st Street Philadelphia, PA 19130	<b>Latitude:</b> 39.970490 <b>Longitude:</b> -75.172486

50180 Saunders Park Street	
<b>Address:</b> 3821 Baring Street Philadelphia, PA 19104	<b>Latitude:</b> 39.960641 <b>Longitude:</b> -75.198743

## PROJECT PLAN

### PROJECT PLAN

Planning Consultation Date 09/15/2021

Planning Completion Date 09/15/2021

Design Start Date 10/18/2020

Design Completed Date 10/18/2021

Date Obtained All Needed DEP Permits

Anticipated Construction Start Date 10/19/2022

Anticipated Construction End Date 10/19/2023

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).

This project will install green stormwater infrastructure (GSI) as part of the City of Philadelphia's Green City, Clean Waters program to meet Clean Water Act obligations to reduce combined sewer overflows. State and federal regulations require the City to reduce the amount of sewage discharged into our river when it rains. Philadelphia is taking many steps to meet these obligations, including GSI in areas served by combined sanitary and stormwater sewers. GSI include a range of soil-water-plant systems that intercept runoff, infiltrate, or evaporate a portion, and in some cases, release a portion slowly back to the sewer system. This reduces the stormwater burden on the City's combined sewer system and, ultimately, decreases combined sewer overflows to receiving waterbodies.

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 PWD GSI in South Philly, Saunders Park, Fairmount, and Harrowgate PennVEST application includes a total of 5 projects distributed across the areas of Philadelphia served by combined sewers. The projects include a combination of green stormwater infrastructure (GSI) to address the City’s Long Term Control Plan Update for Combined Sewer Overflow Control.

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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.

The Philadelphia Water Department GSI Unit has prepared a PWD GSI PennVEST Application Cost Effective Analysis and Project Useful Life document dated September 29, 2021 for this project. A copy of this document has been uploaded to this application as a Miscellaneous Document.

COMMENTS

NARRATIVE : STORMWATER SUPPORTING PROJECT INFORMATION

## STORMWATER/NPS SUPPORTING PROJECT INFORMATION

Category/Subcategory	Total
Storm Sewer Collection / Inlets (Number)	72
Other / Other	Trees and Vegetation
Other / Other	GSI Drainage Area 12 Acres
Street Flooding / Local Road(s) Flooding (Yes/No)	NO
Other / Other	18.7 Greened Acres

## COMMENTS

### BENEFITS : STORMWATER

#### STORMWATER COMPLIANCE WITH ACT 167 AND MS4

Is there a municipal stormwater ordinance in effect within the project area? Yes

Is the project within a Municipal Separate Storm Sewer System (MS4) designated area? No

Is the project designed to meet an MS4 permit requirement or part of an adopted Pollutant Reduction Plan?

Is the applicant a MS4 regulated entity? Yes

Upon completion of construction will the ownership, operation and maintenance for the stormwater project be conveyed to a MS4 entity? Yes

#### SAFETY (STORMWATER)

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

This project will involve the planting of trees and other vegetation. According to recent studies, there is a correlation to increased tree canopy and the reduction of crime. Levels of aggression and violence have been shown to be significantly lower among individuals who have some nearby nature.

#### COMMUNITY HEALTH (STORMWATER)

If this project provides a regional approach to stormwater management and facilities, please explain.

The trees and other vegetation being planted in these project locations will reduce the effects of priority heat vulnerability index locations by providing shade and overall absorption of heat. 1 out of 4 of the project locations are in at least 2nd priority heat vulnerability index areas. These projects will assist in decrease of the effects within those priority areas.

If this project addresses problems in multiple locations, please explain.

#### AQUATIC HEALTH (STORMWATER)

If the project directly corrects a water quality problem, please explain.

No.

If this project provides secondary benefits which improve or prevent water quality problems, please explain.

Yes. This project will reduce the stormwater burden on the City's combined sewer system and ultimately decrease combined sewer overflows to receiving waterbodies.

If this project is located in an area of karst topography and susceptible to sinkhole development, please explain.

No.

If the project is located in areas having no natural watercourse, please explain.

No.

#### INFRASTRUCTURE HEALTH (STORMWATER)

If the existing stormwater system is at the end of its useful life, please explain.

No.

If the existing system is undersized, please explain

No.

Does the applicant and/or municipality monitor and enforce illegal dumping into the stormwater system? Yes

Does the applicant and/or municipality have an active Asset Management Plan? Yes

#### COMPLIANCE (STORMWATER)

Has DEP taken enforcement action with an order or issued a Notice of Violation which requires the project? Yes

Is there an approved Total Maximum Daily Load (TMDL) which requires reductions in the pollutant(s) to be controlled by the project? 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 Govenor's Action Team, please identify the program and the municipality(ies) and county(ies).

N/A

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).

N/A

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

N/A

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

This project serves a City, the City of Philadelphia.

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"/>	490,000	<input checked="" type="checkbox"/>
Total: 0							
Primary	District	Congress Name	District	House Name	District	Senate Name	
<input checked="" type="checkbox"/>	2	Boyle, Brendan	152	Guenst, Nancy	1	Saval, Nikil	

BILLING

	Last Completed Audited Year	First Full Year After Project is Completed
	2020	2025
Estimate Population	1,584,064	1,584,064
Households served by System	490,000	490,000
Total EDUs served by system	0	0
Residential EDUs served by system	0	0
Average annual Residential bill	\$801.00	\$801.00
Total residential bills levied	\$0.00	\$0.00
Total residential bills collected	\$676,498,000.00	\$676,498,000.00
Total Commercial/Industrial bills levied	\$0.00	\$0.00
Total Commercial/Industrial bills collected	\$43,164,000.00	\$43,164,000.00

## INCOME FOR GOVERNMENT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2020	2025
Total Bills Collected	\$719,662,000.00	\$719,662,000.00
Other Charges Collected	\$13,656,000.00	\$13,656,000.00
Total Operating Revenues	\$733,318,000.00	\$733,318,000.00
Non-Operating Revenues	\$23,717,000.00	\$23,717,000.00
Total Income	\$757,035,000.00	\$757,035,000.00

## INCOME FOR PROFIT ENTITY

	Last Completed Fiscal Year	First Full Year After Project Completed
	2020	2025
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
	2020	2025
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
	2020	2025
Labor Salaries Benefits	\$299,356,000.00	\$299,356,000.00
Utilities	\$0.00	\$0.00
Rent	\$0.00	\$0.00
Materials/Supplies	\$38,465,000.00	\$38,465,000.00

Cost of Goods Sold	\$0.00	\$0.00
Program Expenses	\$0.00	\$0.00
Administration Expenses	\$3,189,000.00	\$3,189,000.00
Professional Fees	\$125,163,000.00	\$125,163,000.00
Depreciation Expense	\$125,834,000.00	\$125,834,000.00
Other Expenses	\$0.00	\$0.00
Outside Services	\$0.00	\$0.00
Total (Minus Depreciation Expense)	\$466,173,000.00	\$466,173,000.00

#### NON-OPERATING EXPENSES

	Last Completed Fiscal Year	First Full Year After Project Completed
	2020	2025
Annual Debt Service Excluding This Project	\$87,106,000.00	\$87,106,000.00
Other Non-Operating Expenses	\$32,237,000.00	\$32,237,000.00
Total	\$119,343,000.00	\$119,343,000.00

#### NET CASH

	Last Completed Fiscal Year	First Full Year After Project Completed
	2020	2025
Total Cash	\$757,035,000.00	\$757,035,000.00
Total Cash Expenses	\$585,516,000.00	\$585,516,000.00
Total Cash (Minus Total Cash Expenses)	\$171,519,000.00	\$171,519,000.00

COMMENTS

Explain other charges, non-operating revenues and identify sources of the above information:  
Bulk Agreements with FY20= Revenues totaling \$43.164.000 million and is listed as total commercial.  
Other Operating Revenue FY20 = interest income + small grant  
Other Non-Operating Expense FY20 = items removed from fixed assets of the system.  
All Water and Wastewater Revenue Bonds (other than Subordinated Bonds) are equally and ratably secured under the General Ordinance. No Subordinated Bonds are Outstanding under the General Ordinance.  
Pursuant to the General Ordinance, the City pledges and assigns to the Fiscal Agent, in trust, for the security and payment of all Water and Wastewater Revenue Bonds (other than Subordinated Bonds) issued under or subject to the General Ordinance, and grants to the Fiscal Agent, in trust, a lien on and security interest in all Project Revenues and amounts on deposit in or standing to the credit of the Water and Wastewater Funds (other than the Rebate Fund).  
The Fiscal Agent must hold and apply the security interest in and lien on Project Revenues and funds and accounts, in trust, for the equal and ratable benefit and security of all present and future holders of Water and Wastewater Revenue Bonds (other than Subordinated Bonds). The General Ordinance provides that such pledge also may be for the benefit of the provider of a Credit Facility or a Qualified Swap (as defined therein), or any other person who undertakes to provide monies for the account of the City for the payment of principal or redemption price of and interest on any series of Water and Wastewater Revenue Bonds (other than Subordinated Bonds), on an equal and ratable basis with the holders of Water and Wastewater Revenue Bonds (other than Subordinated Bonds).

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

COMMENTS

As of June 30, 2021, \$2,279,749,157 aggregate principal amount of Water and Wastewater Revenue Bonds are 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	\$6,500,000.00
Contingency	\$325,000.00
Other Costs:	\$0.00
Total:	\$6,825,000.00

## 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.

#### General Rates, Special Rates and the TAP Program

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. Under the TAP program, monthly bills for water, sewer, and stormwater usage and service charges are as follows:

Income Fixed Charge %\*  
50% of FPL or lower at 2% of the household income \$12.00 minimum bill  
Above 50% and at or below 100% At 2.5% of the household income  
Above 100% and at or below 150% FPL 3% of the household income  
Above 150% FPL, with proof of hardship 4% of the household income A special hardship can be increase in household size, loss of a job lasting more than 4 months, serious illness lasting more than 9 months, death of primary wage earner, domestic violence, other circumstances that threaten household's access to necessities of life.  
Residential Monthly Water and Sewer Rate Charges

he table below shows monthly water and sewer rate charges for Fiscal Years 2018 through 2022 and is based, in each case, on a typical residential customer with a 5/8-inch meter using 500 cubic feet per month.

Typical Residential									
Monthly Water and Sewer and Stormwater Rate Charges									
Effective Date Water Sewer									
Stormwater Service Charge Total Percentage									
Change									
9/1/2021	\$23.34	\$16.85	\$16.86	\$12.10	\$69.15	3.6%			
5/8" Meter Residential									
500 Cu. Ft. Monthly	10/1/2020	22.69	16.02	15.80	12.22	66.73	-0.4		
9/1/2019	22.76	16.21	15.80	12.22	66.99	1.0			
9/1/2018	22.76	15.88	15.53	12.16	66.33	-0.3			

COMMENTS