

Community Listening Session

Spring 2024





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Who is the Philadelphia Water Department?

Philadelphia Water Department provides three critical services:

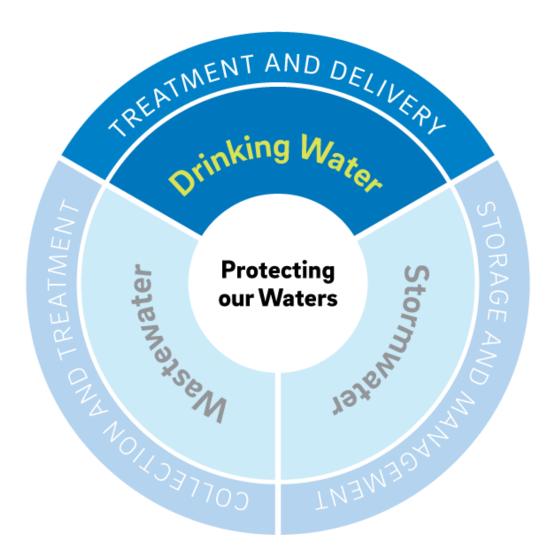


DRINKING WATER

STORMWATER MANAGEMENT WASTEWATER MANAGEMENT



This Community Listening **Session will** focus on Philadelphia's drinking water services.





PWD manages drinking water from **source and treatment** to **delivery** to **homes and businesses**. The most recent U.S Census data shows we serve an estimated **1.58 million people.**

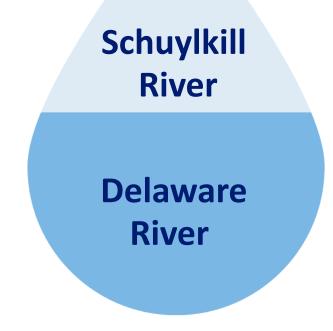




The City gets approximately...



of its water from the **Delaware River**. The rest comes from the **Schuylkill River***



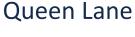
*Based on typical operating conditions



Before it reaches our homes and businesses, PWD treats Philadelphia's drinking water at one of three Water Treatment Plants.









Baxter/Queen Lane Mix



Belmont



Belmont primarily, also receives Baxter/Queen Lane Mix



*Based on typical operating conditions



PWD maintains a network of...

+3,100 miles

of water mains; about the same distance from here to Alaska





How PWD makes drinking water drinkable:



The River

Philadelphia's tap water comes from the Delaware and Schuvlkill Rivers.



Gravity Settling

The newly formed 'floc' settles by gravity and is removed from the bottom of the settling tanks.

Gravity Settling

River water is pumped to reservoirs to allow sediment to settle



Disinfection

Sodium Hypochlorite is added a second time to kill any remaining diseasecausing organisms.



Disinfection

Sodium hypochlorite is added to kill diseasecausing organisms



Filtration

Water flows through filters which remove even more microscopic particles.



Coagulation & Flocculation

Chemicals are added to make fine suspended particles slump together. Gentle mixing encourages clumps of floc.'

Final Treatment

Fluoride is added to help prevent tooth decay. Zinc Orthophosphate is added to minimize pipe corrosion and Ammonia is added to keep the disinfectant in the water and reduce chlorine taste and odor.



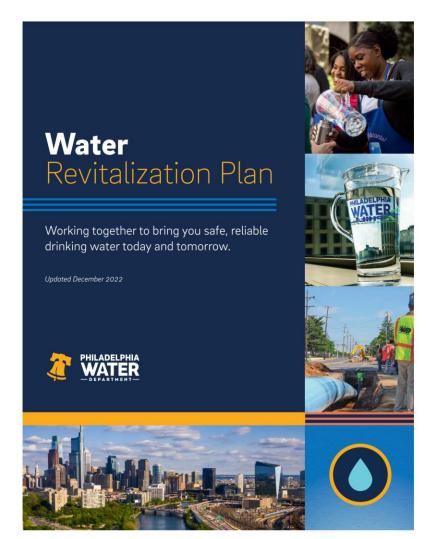


What is the Water Revitalization Plan?

Water Revitalization Plan

Building reliable infrastructure today for a resilient tomorrow

- This plan is the largest investment Philadelphia has made in our drinking water facilities in over a century.
- 25-year, multi-billion-dollar investment, to upgrade and expand Philadelphia's core drinking water infrastructure.





The WRP Stakeholder Advisory Group

Our SAG's role:

The Public Affairs Team selected committed community members to serve on the WRP Stakeholder Advisory Group.

Approximately 200 applicants submitted applications, resulting in a selection of 14 primary and 3 alternate members.

Serve as advocates for the Water Revitalization Plan and communicate program progress	Participate in quarterly meetings	Review and monitor program progress
Utilize voices and influence within the community to gain support for programs	Represent Philadelphia Water Department and SAG initiatives, in a positive manner	Gather input from the public as it relates to ongoing WRP projects

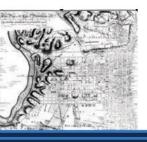


How We Got Here

Philadelphia's History of Water Revitalization



Philadelphia is founded. >



1793–98 Yellow fever kills thousands of residents.

1799-1822

Philadelphia forms a watering committee. The water works opened and expanded. >



1840s

Philadelphia buys land upstream along Schuylkill River to protect the water source.

1860-1909 1900-1912

Philadelphia's population doubles. Typhoid kills 27,000. Philadelphia builds five slow sand filtration plants. >



1914

The water supply is chlorinated. Typhoid and Cholera eradicated. >



PWD constructs new rapid sand filters and pump stations. >



1996

PWD joins the Partnership for Safe Water demonstrating optimized treatment process.

2019

PWD develops a forward-looking, 25-year Water Revitalization Plan that provides a clear path to deliver safe, clean, and affordable drinking water into the future.

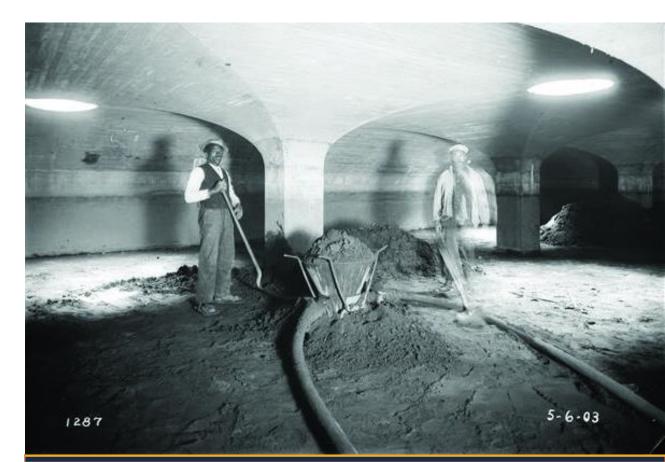


Aging Infrastructure

Philadelphia faces a challenge similar to other large cities across the country.

Ours and other cities must address aged facilities that present issues of:

- Potential reliability risks
- Increased need for emergency repairs
- Related risks of service interruptions and cost inefficiencies





Water Revitalization Plan Process





Our Goals

We used these criteria to evaluate each solution and help us identify potential risks.

Water quality Achieve present and future regulatory requirements	Capital availability Manage financial resources to make necessary investments in the water system while keeping rates affordable	Service pressure Provide reliable water pressure for system operation
Operability	Water quantity	Public inclusion
Ensure system-wide resiliency for	Provide long-term water supply	Engage customers throughout
a range of emergency conditions	to the service area	the process



Water Revitalization Plan

Plan Recommendations

Projects will include:

- Water treatment plant upgrades
- Pumping station rehabilitation and construction
- New transmission main piping





Key Plan Projects

The Water Revitalization Plan identified approximately 400 projects focused on the improvement of existing facilities and construction of several new facilities.

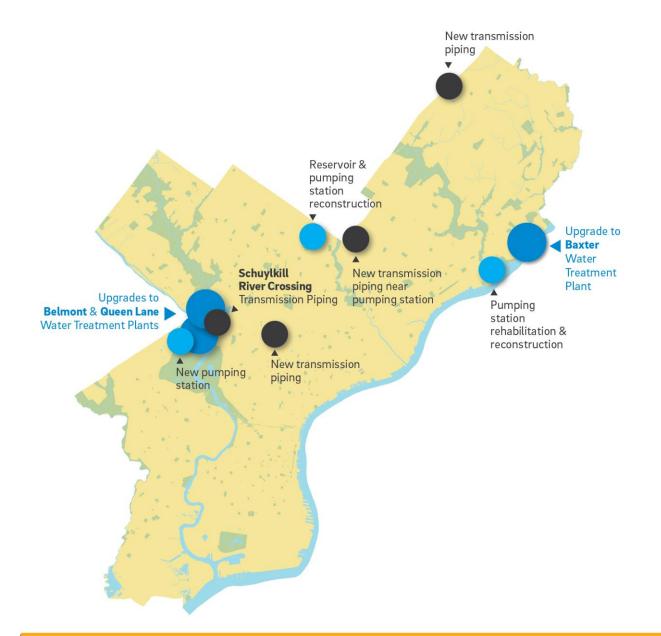
LEGEND



Water Treatment Plant



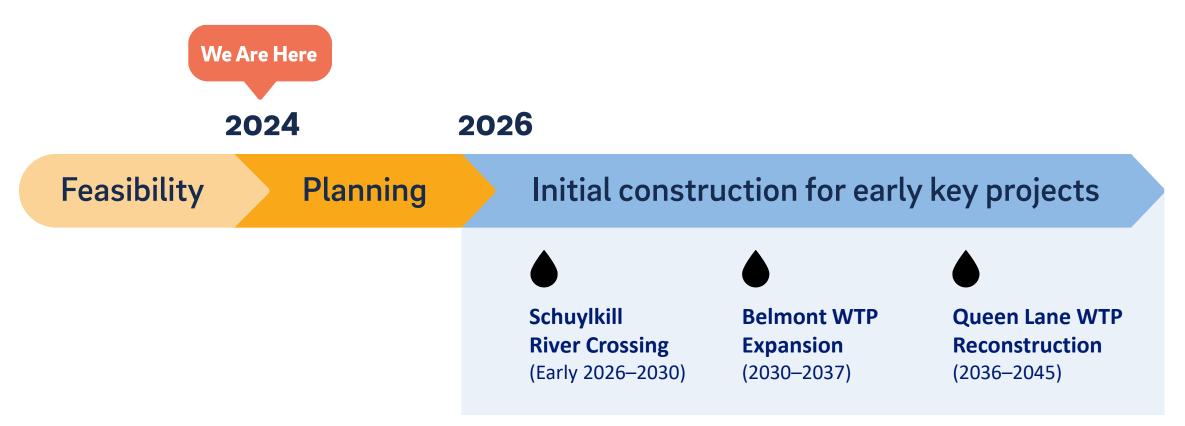






Launching the Plan

Projecting a phased, long-term approach







How will the Water Revitalization Plan benefit all Philadelphians?

For Our Residents

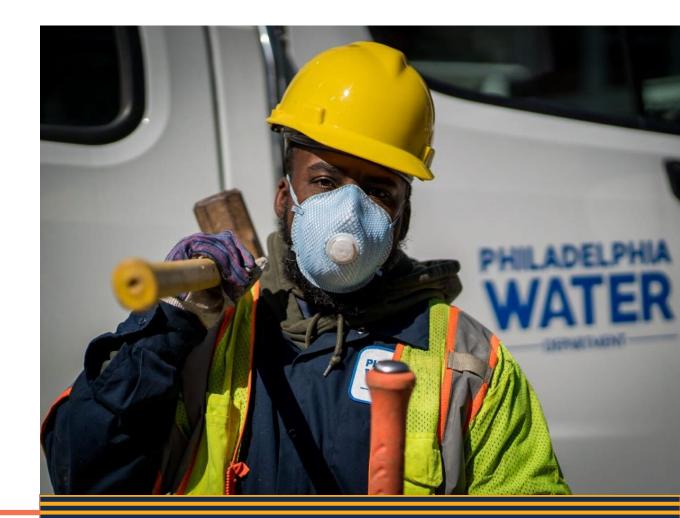
- Clean water on tap when you need it
 - Improved water service and a more reliable distribution system
- A focus on community
 - Best practices for construction ensure safe, clean worksites and minimize disturbances





For Our Economy

- Working with Philadelphians
 - Construction jobs in Philadelphia over the next 25 years.
- Your dollar goes further
 - Projects are scheduled to balance spending as efficiently as possible over time.
- A solid investment
 - Increased transparency of PWD's long-term capital needs.





For Our Future

- A commitment to health and safety
- An investment in future generations
 - Upgraded facilities to deliver safe, reliable drinking water supply for the next 50 years and beyond.





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Instagram: @phillyh2o X: @PhillyH2O Facebook: Philadelphia Water Department WRP Support: WRPsupport@phila.gov General Support: waterinfo@phila.gov <u>WRPsupport@phila.gov</u>

Water Revitalization Plan Newsletter:

public.govdelivery.com/accounts/PAPHILAWA TER/signup/36082



Water Revitalization Plan Landing Page:

water.phila.gov/projects/revitalization/

