

Green Alley Partnership - Spring 2018

GREEN ALLEY PARTNERSHIP

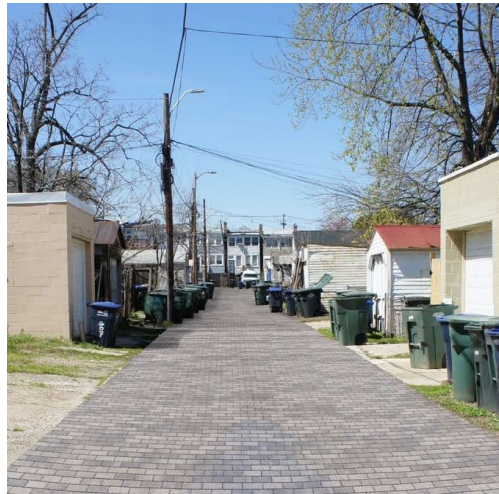
Mayor Muriel Bowser is implementing an initiative for construction, improvement, and repairs of alleys across the District of Columbia. This is a core activity for the District Department of Transportation (DDOT) to help improve the condition, functionality, safety and accessibility of the neighborhoods' alley network. DC Water through its DC Clean Rivers Project (DCCR) is partnering with DDOT on a green alley partnership to construct permeable pavement in one alley in Ward 2 within the Potomac River sewershed and six alleys in Wards 1 and 4 within the Rock Creek sewershed.

Permeable pavement is a Green Infrastructure (GI) technique that mimics natural conditions to capture (working like a sponge), filter and slow down stormwater runoff before it enters the combined sewer system. Other GI techniques include bioretention (rain gardens) and rain barrels, which are being implemented through other DCCR GI Projects. Residents and ratepayers will benefit through newly reconstructed alleys and by the implementation of GI helping to prevent combined sewer overflows (CSOs) into the Potomac River and Rock Creek.

Example of a typical alley receiving permeable pavement under the Green Alley Partnership:



Typical alley before construction



Typical alley with permeable pavement after construction

ANTICIPATED SCHEDULE

Kick Off—April 20, 2017

Construction work anticipated to be completed in 2018

CONTACT INFO

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PARTNERSHIP AT GLANCE

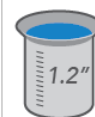
LOCATIONS

One alley in Ward 2 within Potomac River sewershed and 6 alleys in Wards 1 & 4 within Rock Creek sewershed.

PARTNERSHIP BENEFITS

- Improves the environment by reducing pollution going into the District's rivers
- Saves money by DDOT and DC Water working together
- Saves time by restoring the alleys and implementing GI at the same time
- Supports Sustainability DC Plan
- Reduces construction disruption by restoring the alleys and implementing GI at the same time
- Beautifies neighborhoods by improving the pavement condition of alleys
- Improves pedestrian safety by improving pavement in alleys
- Reduces localized drainage issues on alleys by implementing permeable pavement that absorbs stormwater runoff

PERMEABLE PAVEMENT WILL MANAGE



1.2" inches of stormwater runoff from 3.1 impervious acres

PROJECT PROGRESS



To identify the seven alleys receiving permeable pavement, visit the Project's website:
www.dewater.com/greenalleys

GREEN ALLEY PARTNERSHIP PROJECT AREAS with one alley in the Potomac River GI Project Area and six alleys in the Rock Creek GI Project Area to receive permeable pavement through the DDOT and DC Water Green Alley Partnership:



Potomac River GI Project Area



Rock Creek GI Project Area

THE DC CLEAN RIVERS PROJECT (DCCR) is DC Water's massive infrastructure program to reduce combined sewer overflows (CSOs) into the District's waterways — the Anacostia and Potomac Rivers and Rock Creek. It includes green infrastructure and more than 18 miles of tunnels that are larger than the Metro tunnels and are constructed more than 100 feet below the ground. The tunnels are designed to capture CSOs during heavy rain events and transport the flows to the Blue Plains Advanced Wastewater Treatment Plant for treatment.

With the DC Clean Rivers Project, DC Water will improve our waterways by reducing CSO volume system wide by 96% in the average year and by 98% to the Anacostia River alone. DC Clean Rivers Project will also provide flood relief to neighborhoods in the Northeast Boundary section of the city, such as Bloomingdale, LeDroit Park, Trinidad and Ivy City.

Goal:

96%

Reduction of system-wide CSO volume

98%

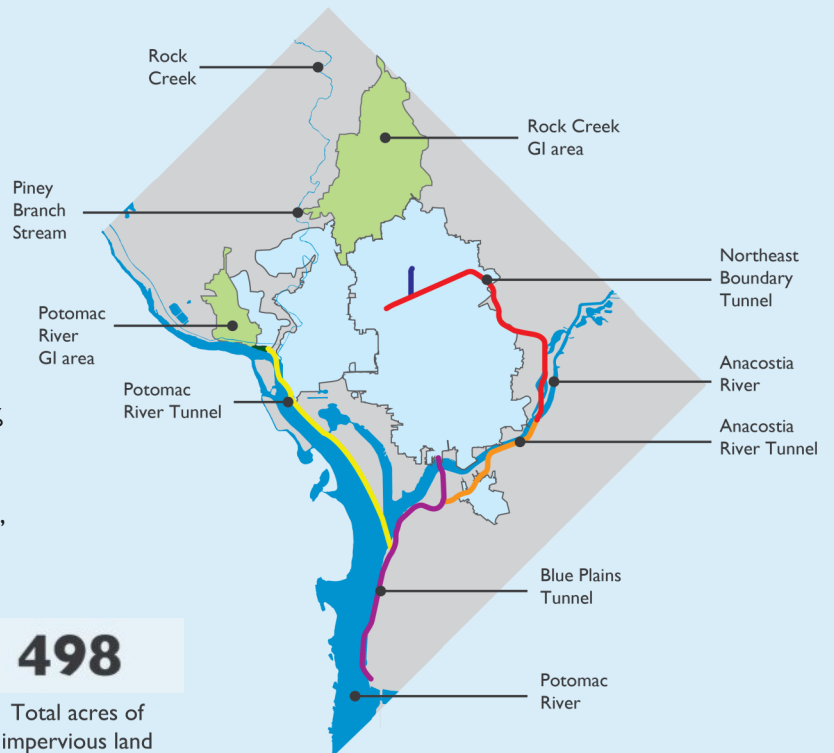
Reduction of CSO volume to the Anacostia

18

Linear miles of tunnels, over 100 ft below the ground

498

Total acres of impervious land managed by GI



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