

ROCK CREEK PROJECT A 2018



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GREEN INFRASTRUCTURE PROGRAM A part of the DC Clean Rivers Project

ROCK CREEK PROJECT A

Rock Creek Project A is the first Green Infrastructure (GI) project constructed by the DC Clean Rivers Project to significantly reduce the level of pollution to Rock Creek produced by the discharge of stormwater runoff and sanitary sewer flows, known as combined sewer overflows (CSOs) from the combined sewer system during heavy rain and snow events. Rock Creek Project A involves the construction of innovative GI technologies that include bioretention (rain gardens) in planter strips and curb extensions, permeable pavement on streets and alleys, and downspout disconnection (including rain barrels). These practices will manage stormwater by taking advantage of the earth's natural processes, such as allowing the water to infiltrate into the soil, evaporate into the air, or for plants to use the water and expire it as vapor. In addition to managing stormwater, GI will contribute to beautifying the streetscape and making it safer and more welcoming for pedestrians, bicyclists and drivers.



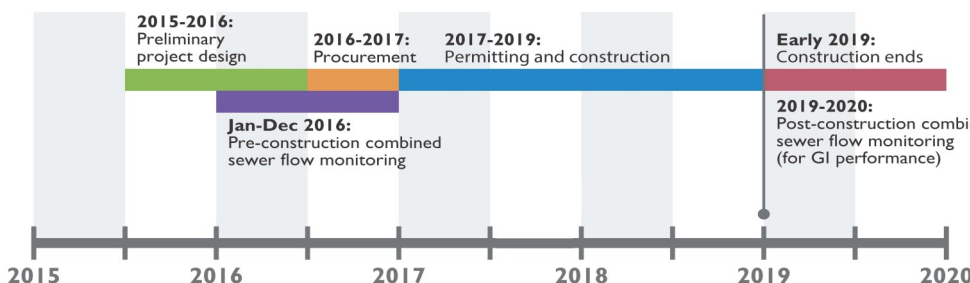
Rock Creek Project A area extends from Oglethorpe Street NW to Gallatin Street NW and 3rd Place NW to First Street NE.

Construction activities for Rock Creek Project A began in summer 2017 and will be completed in 2019. Construction work will be phased throughout the project area to minimize traffic and other construction impacts to the community.

From 2019 to 2020, the GI practices will be monitored and assessed to evaluate performance.

Rock Creek Project A project boundary

ANTICIPATED SCHEDULE



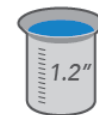
PROJECT AT GLANCE

PROJECT AREA

Oglethorpe Street NW to Gallatin Street NW and 3rd Place NW to First Street NE.

GREEN TECHNOLOGIES

- Permeable parking lanes
- Permeable alleys
- Bioretention curb extension (rain gardens)
- Bioretention planter strips (rain gardens)
- Targeted sewer separation

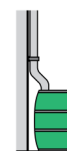


Inches of stormwater runoff managed from 20 impervious acres

COMMUNITY BENEFITS

- Local green jobs
- Create more green space
- Beautify neighborhoods
- Improve pedestrian safety
- Provide educational opportunities
- Reduce localized drainage issues on streets and alleys

GET INVOLVED



You can help **DRAIN the Rain!** The DC Clean Rivers Project is providing free downspout disconnections with a free rain barrel in your area. Find out if you are eligible to participate!

Visit dcwater.com/draintherain

PROJECT PROGRESS



To identify GI practices near you, visit the Project's website: dcwater.com/rockcreekgreen

WHEN AND WHAT TYPES OF GREEN INFRASTRUCTURE ARE BEING IMPLEMENTED IN MY NEIGHBORHOOD?

Rock Creek Project A will be built in three phases to optimize the construction process and minimize impacts to the community. DC Water's Contractor will implement phased construction for each block/street that includes GI practices with limited construction activities for each block/street; no block/street will be under construction during the entire duration of each implementation phase. The first construction phase began in summer 2017 and all construction will be completed by early 2019. The locations to receive GI are shown in the map below and include permeable pavement facilities in alleys, bioretention planters (rain gardens), bioretention curb extensions (rain gardens), and permeable pavement facilities in parking lanes. The description of each practice and maps displaying all phases are also found below.



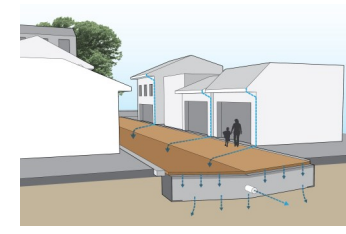
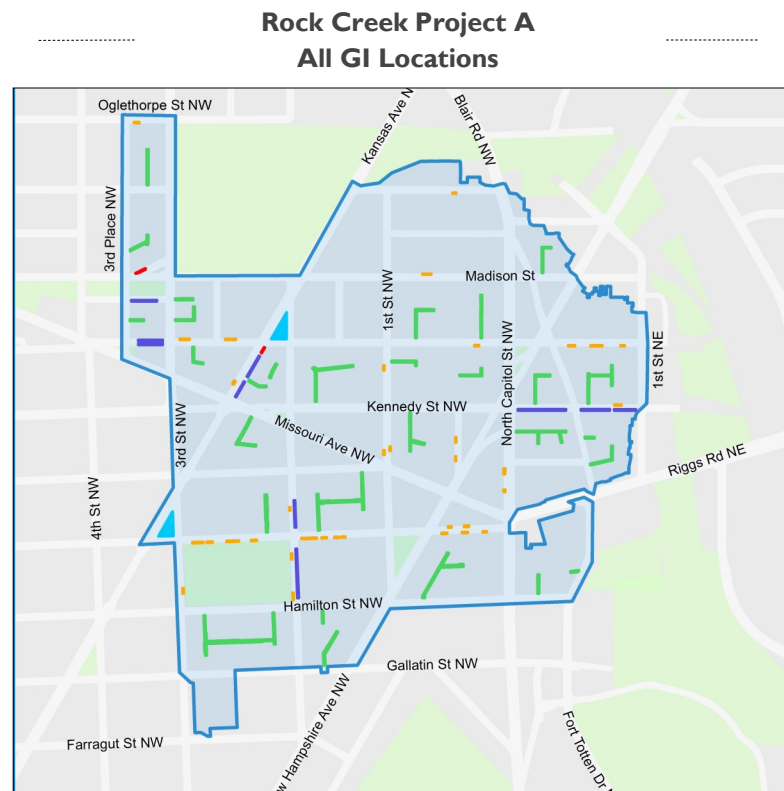
Planter Bioretention

Also known as a rain garden, planter bioretention captures and cleans stormwater runoff allowing it to infiltrate into the ground and slows down the excess stormwater before entering the combined sewer system.



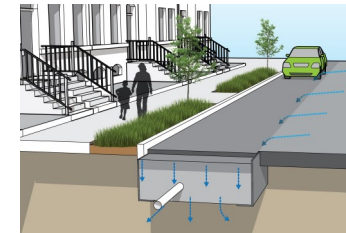
Curb Extension Bioretention

Extension of the curb with a bioretention or rain garden that collects stormwater runoff and allows it to infiltrate in the ground. It also serves to calm traffic since it is typically of the width of a parking lane but built in existing no parking spaces.



Alley Permeable Pavement

Also known as a green alley, permeable pavement (concrete, pavers or asphalt) allows stormwater runoff to infiltrate through the pavement and into the ground and slows down the excess stormwater before entering the combined sewer system.



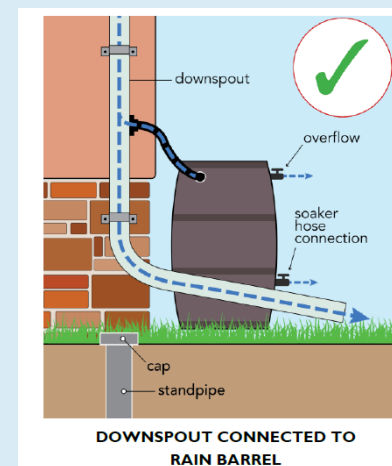
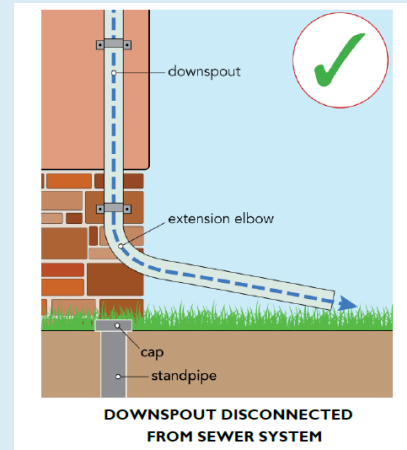
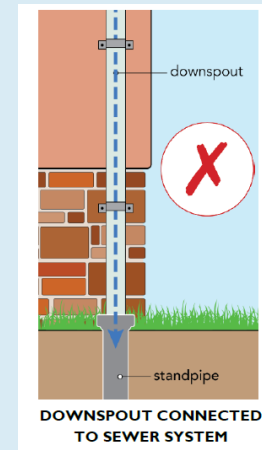
Parking Lane Permeable Pavement

Parking lane permeable pavement (concrete, pavers or asphalt) allows stormwater runoff to infiltrate through the pavement and slows down the excess stormwater before entering the combined sewer system.

HOW CAN YOU HELP CLEAN OUR RIVERS?

YOU can help reduce CSOs and help clean the District's rivers by disconnecting your downspout! Join us and **DRAIN the RAIN!** The DC Clean Rivers Project has launched a voluntary program for **FREE** downspout disconnections with **FREE** rain barrels in select areas. To find out if your property is eligible for this program, please visit: dcwater.com/draintherain

When a downspout is connected to the combined sewer system, it contributes to CSOs during heavy rain events. Downspouts can be disconnected from the sewer system and redirected to a lawn or permeable surface away from the property.

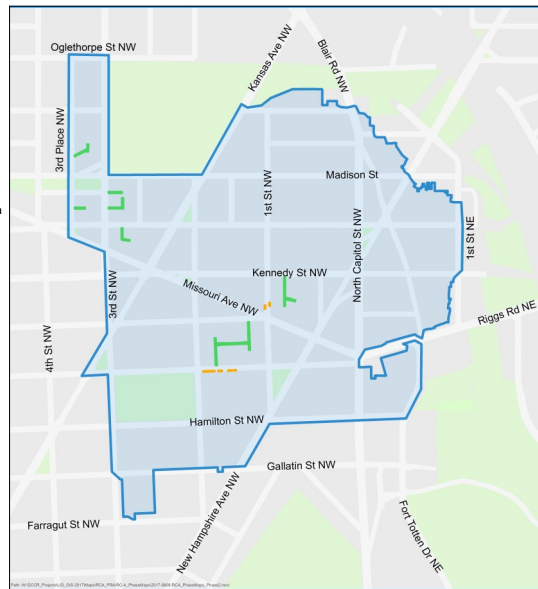


Downspouts can also be disconnected from the sewer system and connected to a rain barrel. The water collected can be used to water your lawn, plants and wash your car saving money on your water bill!

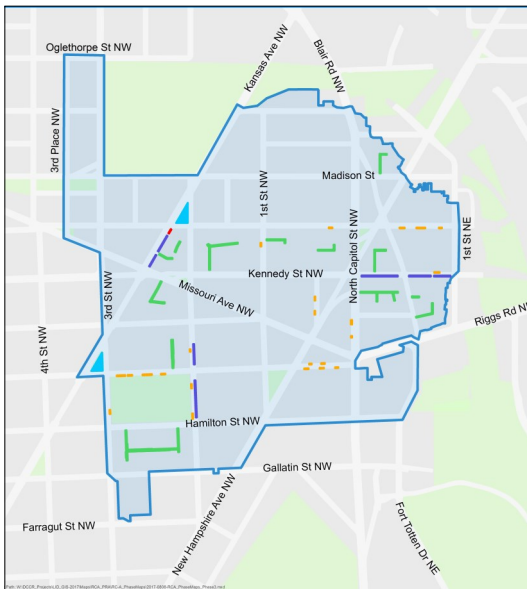
GI Locations- First Construction Phase



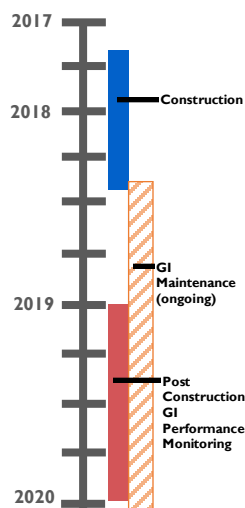
GI Locations- Second Construction Phase



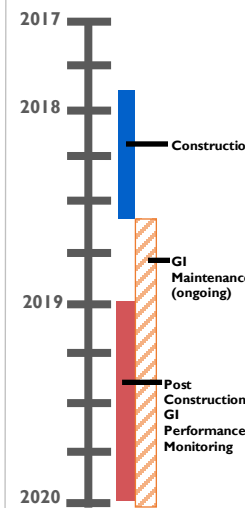
GI Locations- Third Construction Phase



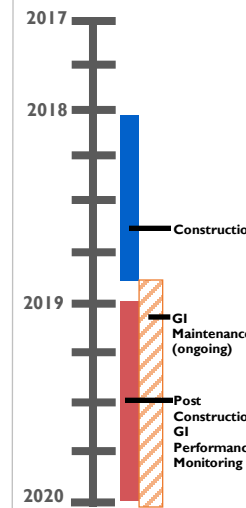
Anticipated Schedule



Anticipated Schedule

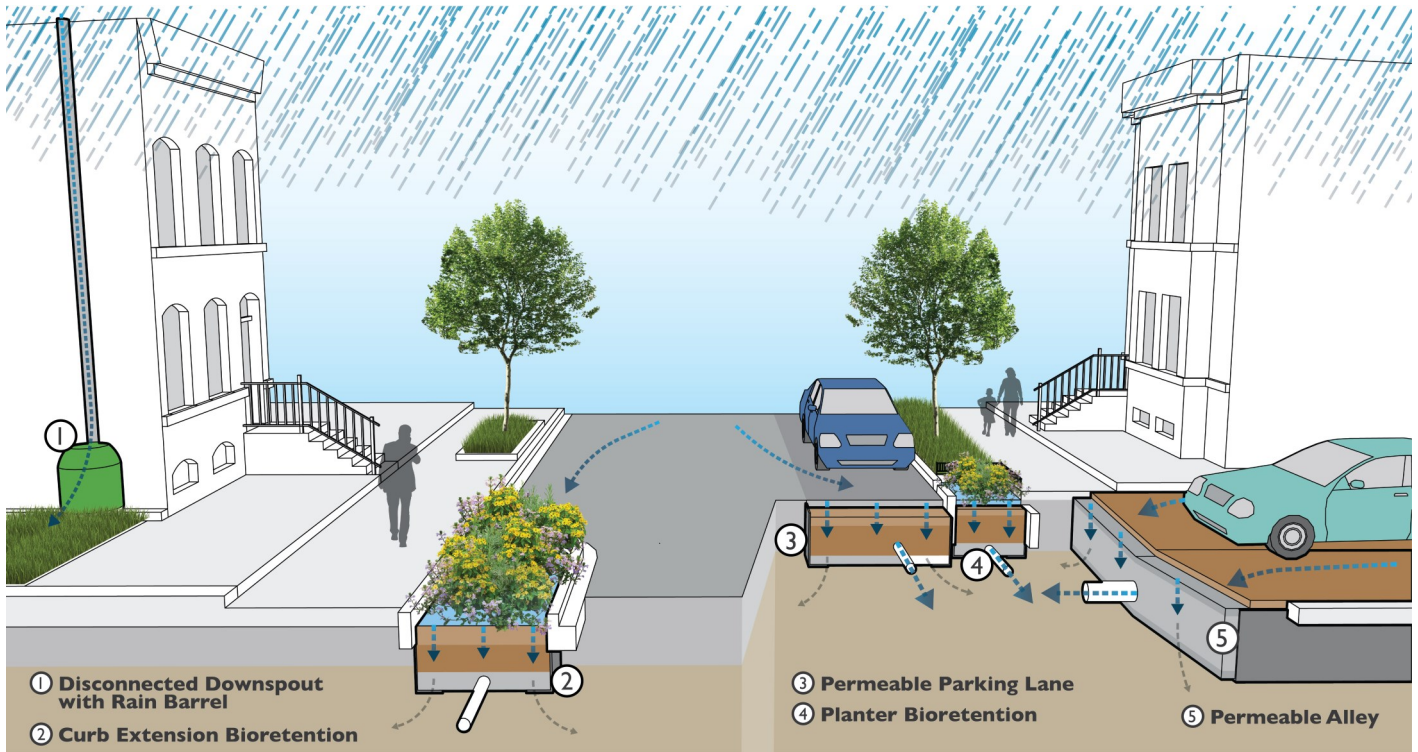


Anticipated Schedule



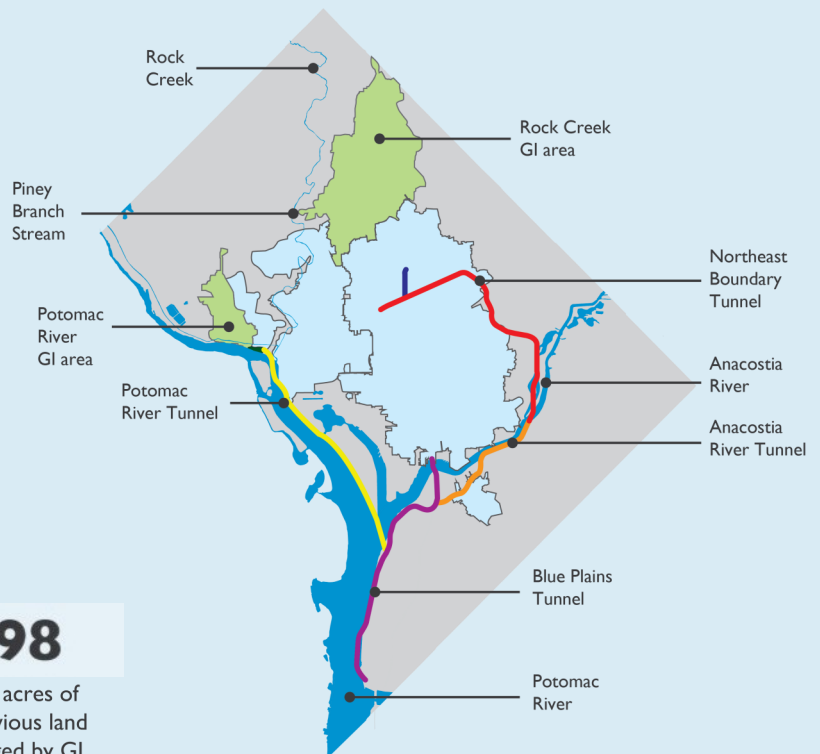
WHAT IS GREEN INFRASTRUCTURE?

GREEN INFRASTRUCTURE (GI) practices manage stormwater by taking advantage of the earth's natural processes. These include allowing water to infiltrate into the soil, evaporate into the air, or for plants to use the water and expire it as vapor. These practices can slow down, clean, and, in some cases, reduce stormwater runoff prior to it entering the combined sewer system.



THE DC CLEAN RIVERS PROJECT 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 District, such as Bloomingdale, LeDroit Park, Trinidad and Ivy City.



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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