



# Rock Creek Project C (RC-C) Green Infrastructure

## *Virtual Public Meeting #1*

April 8, 2024



Seth Charde, Senior Manager, Green Infrastructure Clean Rivers Project  
Eric Lienhard, Deputy Program Manager, Clean Rivers Project



Welcome! We're glad you're here!

- Welcome
- Introductions
- Participation Tips
- Purpose of Tonight's Meeting
- Clean Rivers Background
- Green Infrastructure Program
- Rock Creek Project C
  - Selection Criteria
  - Proposed Locations
  - What to Expect
- Questions
- Contact Information





Welcome! We're glad you're here!

## Greetings Neighbors!

Welcome to our Virtual  
Public Meeting



### Participation Tips:

- Online meetings are subject to your bandwidth limitations. If your connection to the meeting should freeze, please exit and reenter the meeting to refresh your connection.
- Participants may opt to turn on or off your video.
- All participant lines are muted to minimize disruptions.
- The **Questions and Answers (Q&A) period** will be held at the end of the presentation. **Please enter your questions via the Chat function throughout the meeting.**
- During the Q&A period of the meeting, questions from the Chat will be answered first, and if time permits, questions from the phone will be taken.
- **ONLINE PARTICIPANTS:** Send your questions to the Host by using the Chat mode.
- **PHONE PARTICIPANTS:** Press **\*5** to raise your hand. We will ask you to unmute using **\*6** when it's your turn to ask a question.
- Additional questions can be emailed to: [cleanriversgi@dcwater.com](mailto:cleanriversgi@dcwater.com)



# Purpose of Tonight's Meeting

## DC Clean Rivers Background

Seth Charde



## Purpose of Tonight's Meeting

- DC Water published a Draft Project Description on April 5, 2024, for Rock Creek Green Infrastructure (GI) Project C
  - DC Water's consent order requires solicitation of comments from the public on a draft Project Description for a minimum of 30 days
  - DC Water shall hold at least one public meeting regarding the Project Description
  - DC Water shall consider public comments received during the comment period and revise the Project Description as appropriate prior to finalizing and submitting to EPA
  - Project Description shall be finalized and published six (6) months prior to awarding the Project for Construction

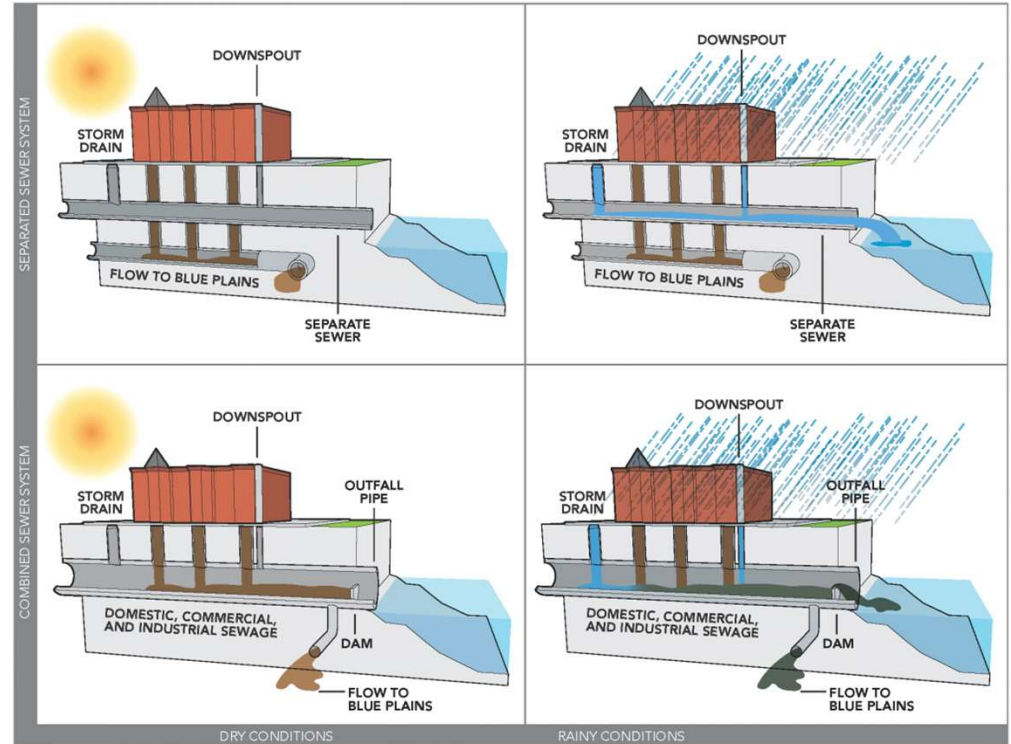
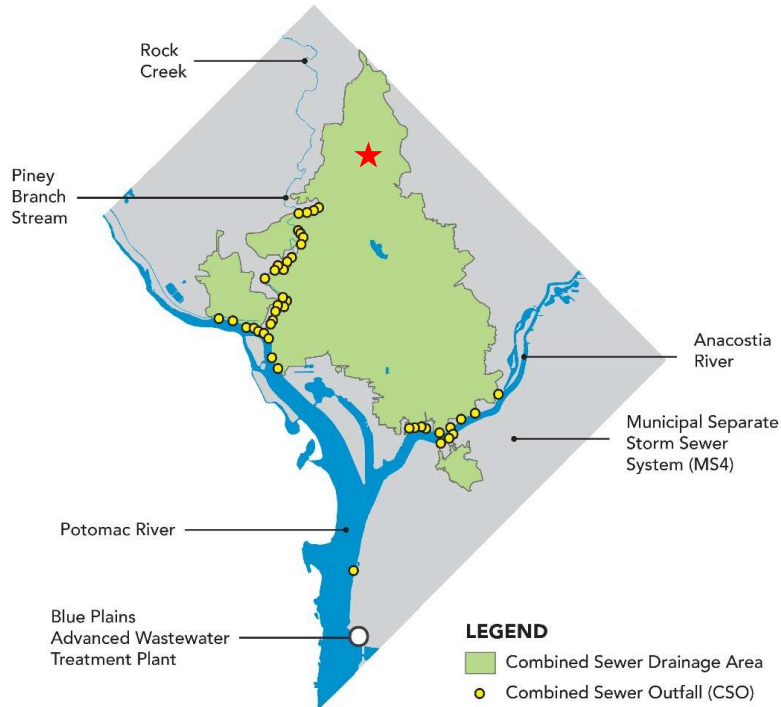
Rock Creek Project C is the third Green Infrastructure (GI) Project in the Rock Creek Sewershed to be built under a Federal Consent Decree to control 25 acres to the 1.2" retention standard (815,500 gallons)



# DC Water Background

- Multi-jurisdictional Authority provides:
  - Drinking water distribution for DC (from Washington Aqueduct)
  - Wastewater collection and treatment
  - Stormwater collection and conveyance
- Treats wastewater for 2.1 million people
- Operates the world's largest Advanced Wastewater Treatment Plant
  - Average daily capacity: 384 Million Gallons per Day (mgd)
  - Peak daily capacity: 780 mgd
- Serves a regional area of 725 square miles
- Independent of DC Government
- Primarily funded by user fees





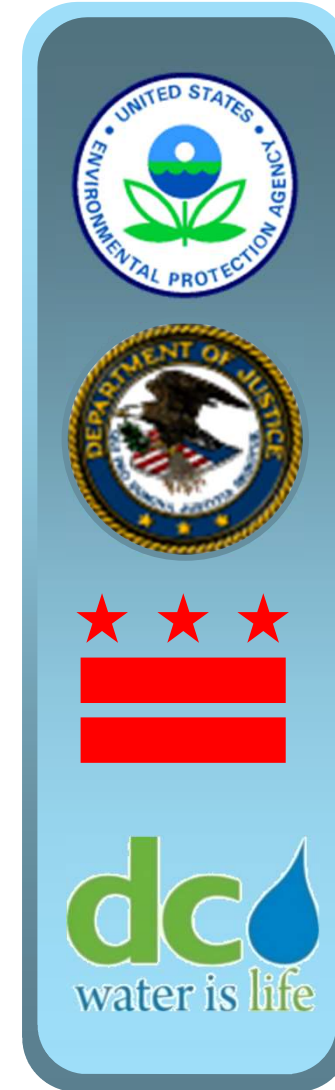
- 1/3 of area within District is served by combined sewers (12,478 acres)
- Combined Sewer Overflow (CSO) outfalls
  - 15 to Anacostia River
  - 8 to Potomac River
  - 23 to Rock Creek



# Combined Sewer System in the District

- Control combined sewer overflows to the:
  - Potomac River
  - Rock Creek
  - Anacostia River
- Relieve flooding in the Northeast Boundary Area
- Implemented under a Federal Consent Decree:
  - US Environmental Protection Agency (US EPA)
  - US Department of Justice (US DOJ)
  - District of Columbia
  - DC Water
- Significant stipulated penalties for missing schedule deadlines

**Fully operational by 2030**





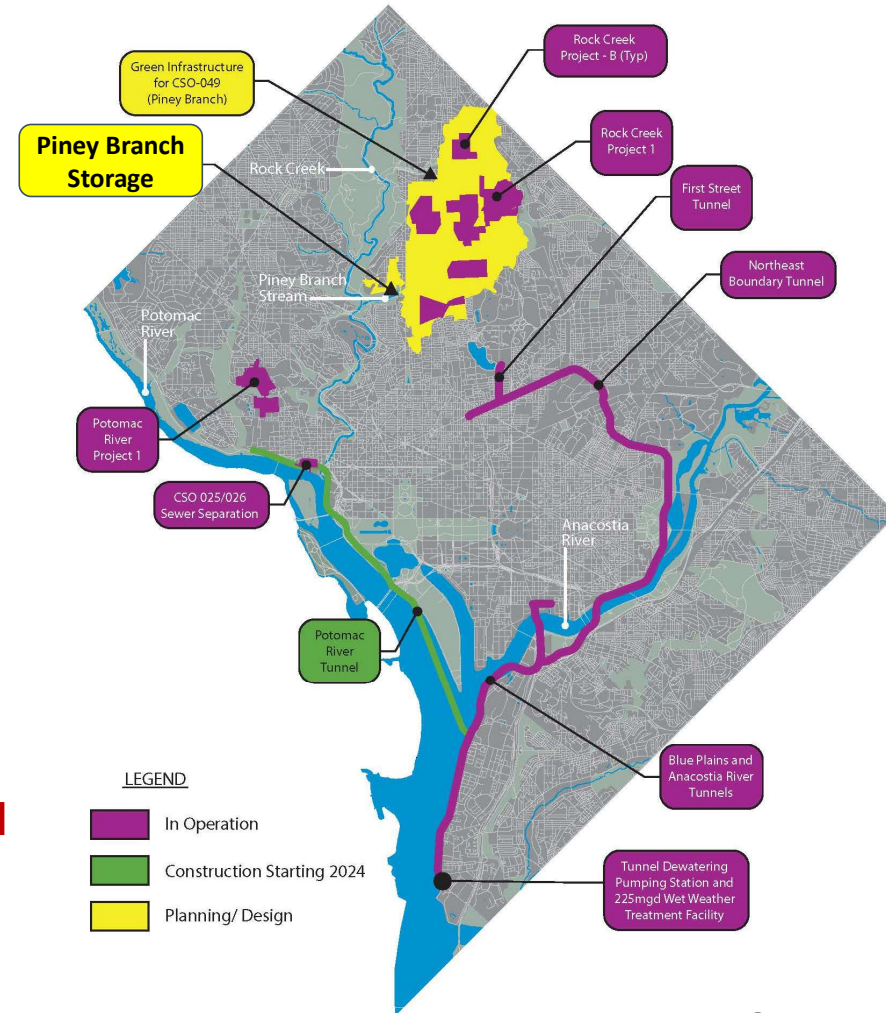


# DC Clean Rivers Project Update

## Current Program Status

Thank you for your help in making this program a success!

Area	Status
Anacostia	
Anacostia Tunnel System	<ul style="list-style-type: none"> <li>More than <b>16.8 billion gallons captured, 10,339 tons of trash/debris removed</b> March 2018 - Feb 2024</li> </ul>
Northeast Boundary Tunnel	<ul style="list-style-type: none"> <li>Tunnel commissioned September 15, 2023.</li> <li>Restoration and Paving ongoing.</li> </ul>
Potomac	
Potomac Tunnel	<ul style="list-style-type: none"> <li>Board approved design-build contract Oct 5, 2023</li> <li>Notice to Proceed issued November 9, 2023</li> </ul>
Rock Creek	
Green Infrastructure (GI) Project B	Completed – Certification letter issued to EPA on Dec. 5, 2023.
<b>Green Infrastructure (GI) Project C</b>	<ul style="list-style-type: none"> <li><b>Design ongoing</b></li> <li><b>Construction 2025-2027</b></li> </ul>
Green Infrastructure (GI) Project D	Construction 2028-2030
Piney Branch Storage	<ul style="list-style-type: none"> <li>Environmental Assessment underway</li> <li>Construction 2025-2029</li> </ul>



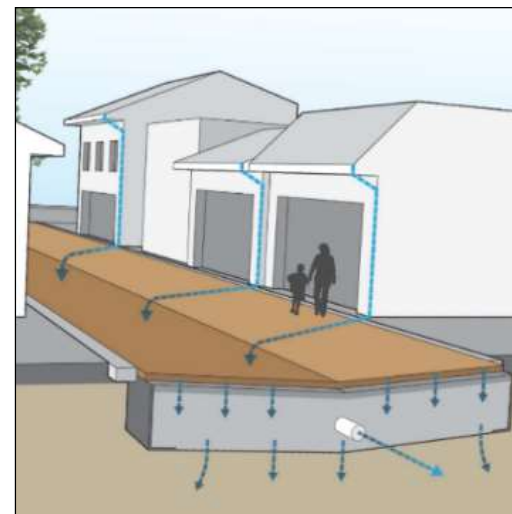
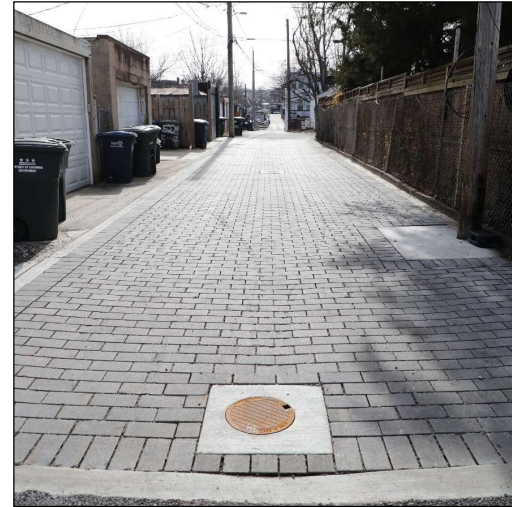


# Green Infrastructure Program




Eric Lienhard

# dc Green Infrastructure: Program Drivers

- Volume Management (Gallons)
  - Control Combined Sewer Overflows
- Cost Effectiveness
  - Responsibility to Rate Payers
- Maintenance/Asset Management
  - Safety
  - Aesthetics
  - Performance
- Outreach
  - Build Public Awareness and Stewardship
- Triple Bottom Line Benefits
  - Deliver Multiple Benefits to the Community



# dc Green Infrastructure: Program Requirements

Project	Impervious Acres Managed @ 1.2"	Place in Operation Deadline
Rock Creek Project 1	20	2019 
Rock Creek Project B	22	2024 
<b>Rock Creek Project C</b>	<b>25</b>	<b>2027</b> 
Rock Creek Project D	25	2029
<b>Total</b>	<b>92</b>	

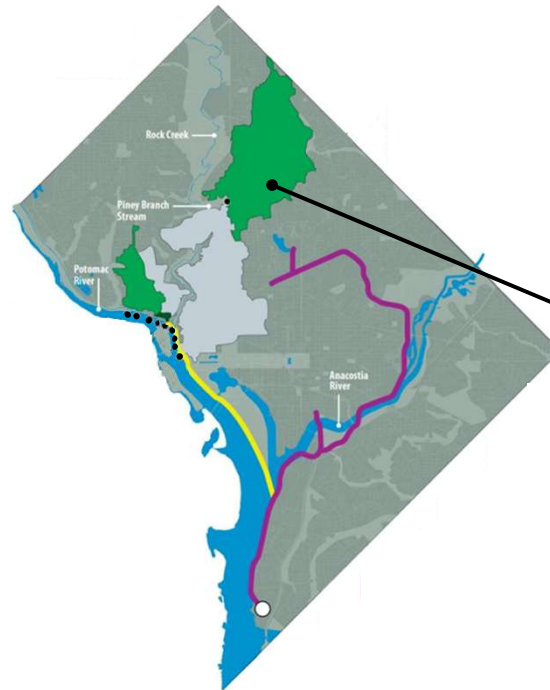
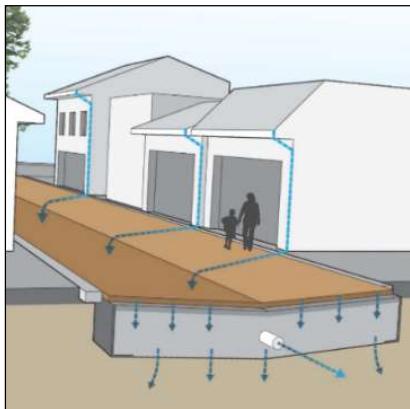
4.2-million-gallon storage to be constructed by 2030



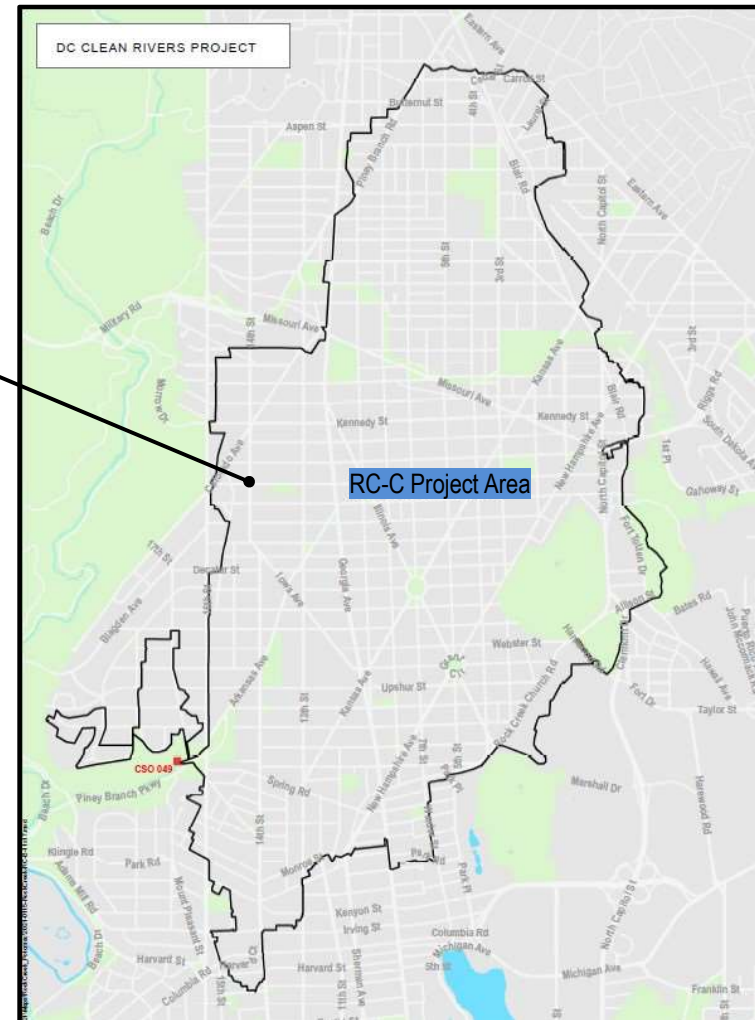
# Green Infrastructure: Rock Creek Project C (RC-C)



Alley Permeable Pavement  
Approx. 60 +/- Locations



- Manage 25 impervious acres
- Facilities can be anywhere in drainage area

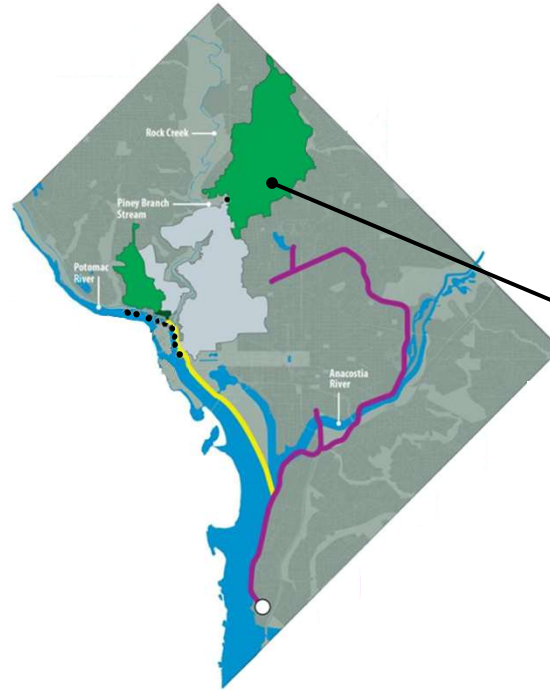
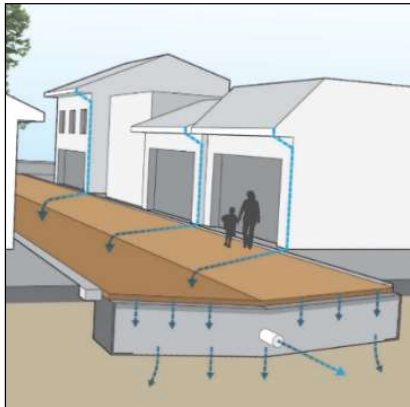




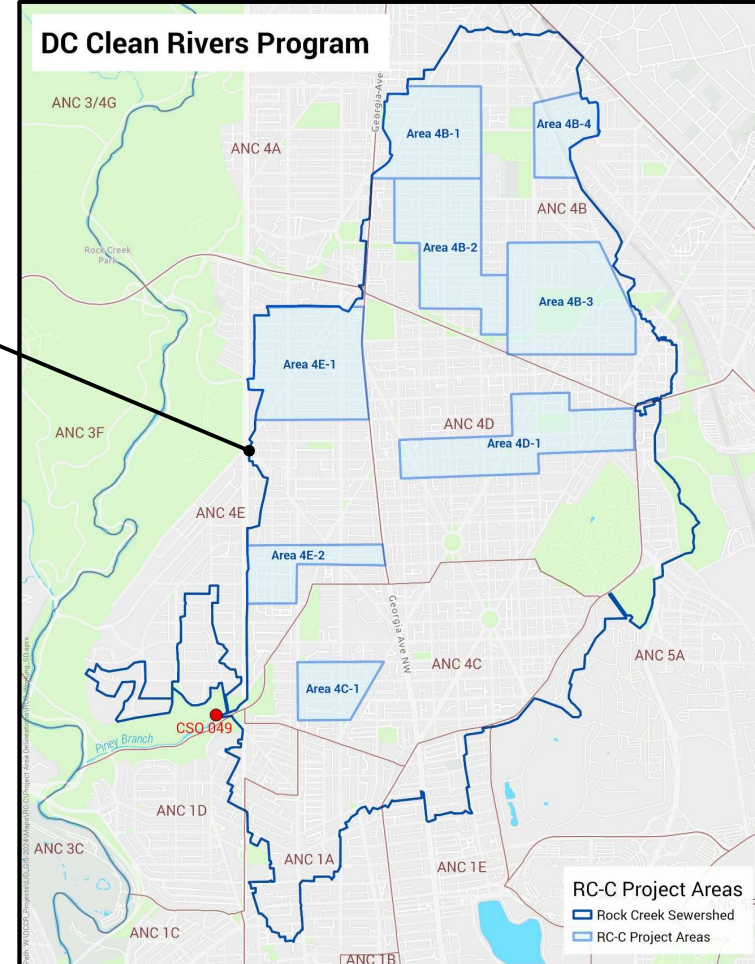
# Green Infrastructure: Rock Creek Project C (RC-C)



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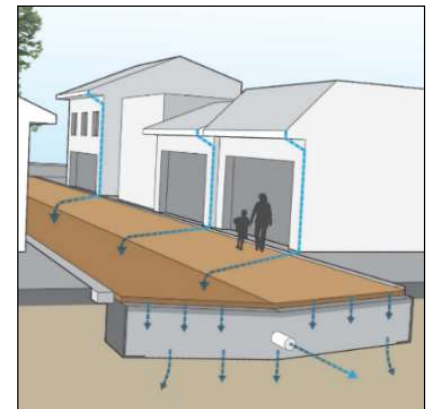
- Eight (8) Project Areas in 4 ANCs
- Anticipated Construction Dates:  
March 2025 – June 2027
- Construction Cost Estimate:  
\$15-\$21M





# Green Infrastructure: Rock Creek Project C (RC-C)

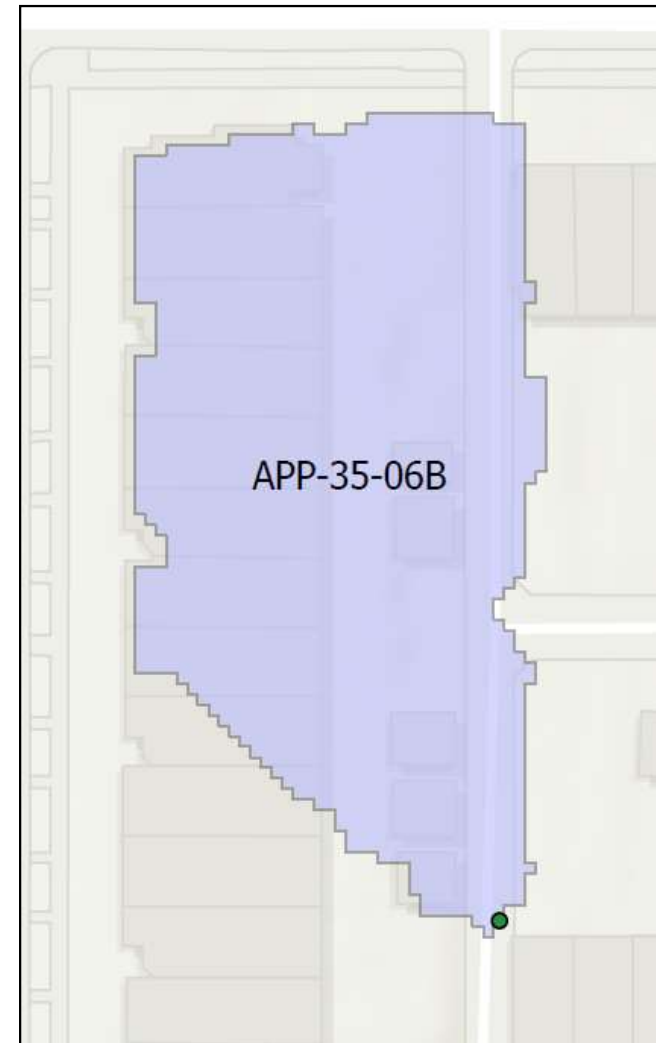
- Locations selected based on:
  - Contributing Drainage Area (CDA)
    - How much stormwater is generated and flowing into the alley
    - How “Clean” is the area (sediment, tree litter)
  - Constructability
    - Size and width of the alley
    - Avoidance of underground utilities
    - Accounting for overhead utilities
  - Other Constraints
    - Trees and Roots
    - Proximity to structures (houses, garages, retaining walls)





## Green Infrastructure: Rock Creek Project C (RC-C)

- Basis for Alley Permeable Pavement (APP) Sizing:
  - Volume of stormwater generated by the Contributing Drainage Area (CDA)
    - Pervious area (lawns, gravel parking pads)
    - Impervious area (alley, walkways, driveways)







## Green Infrastructure: Rock Creek Project C (RC-C)

- Basis for Alley Permeable Pavement (APP) Sizing:
  - Available Space and Restoration Requirements
    - Alley Permeable Pavement Section is only sized for the volume needed to be managed.
    - All disturbed sections of the alley not converted to permeable surface will be restored using concrete.
    - Alley sections not disrupted by the work will not be reconstructed by DC Water
      - DDOT is responsible for alley reconstruction outside this program
      - Residents are encouraged to call 311 to request traditional alley repairs and reconstruction.



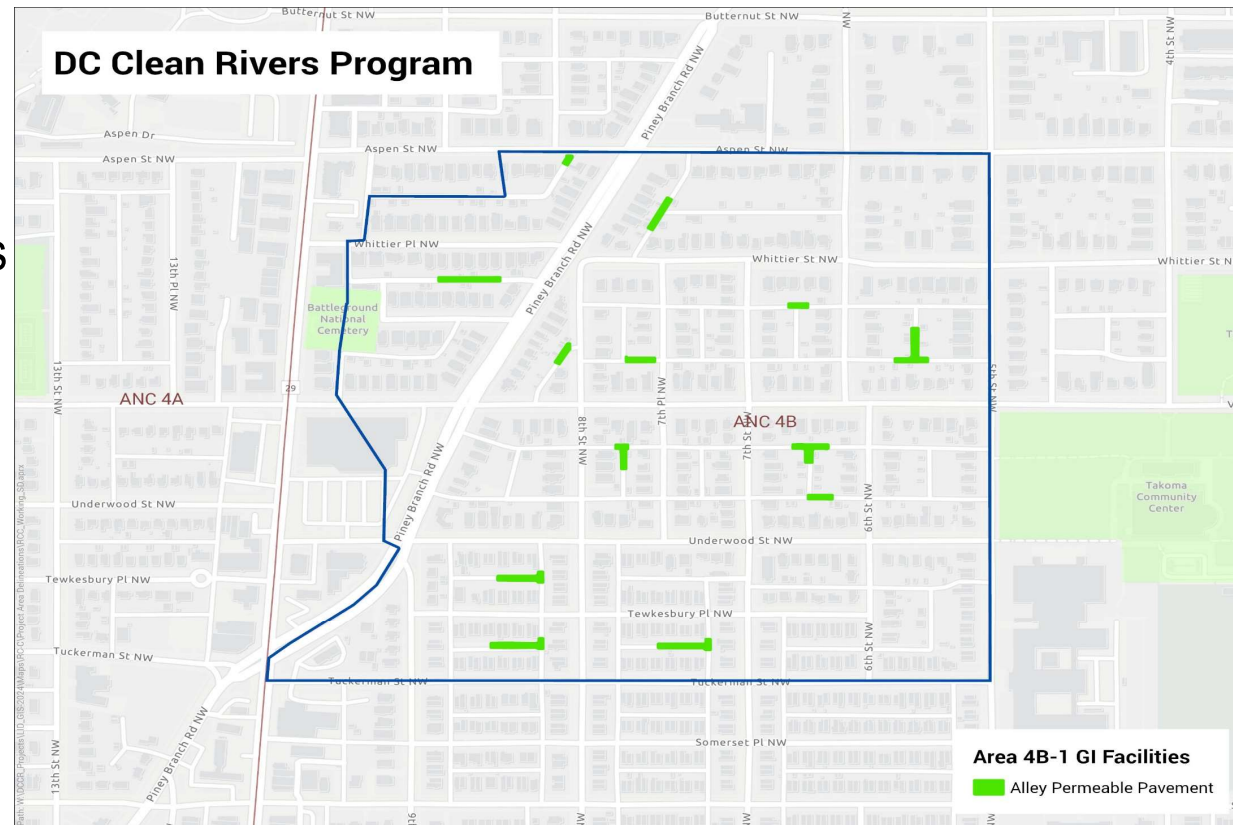


# Rock Creek Project C (RC-C): Project Area 4B-1

- ANC 4B
- Takoma
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Thirteen (13) Permeable Alleys



Project Area 4B-1

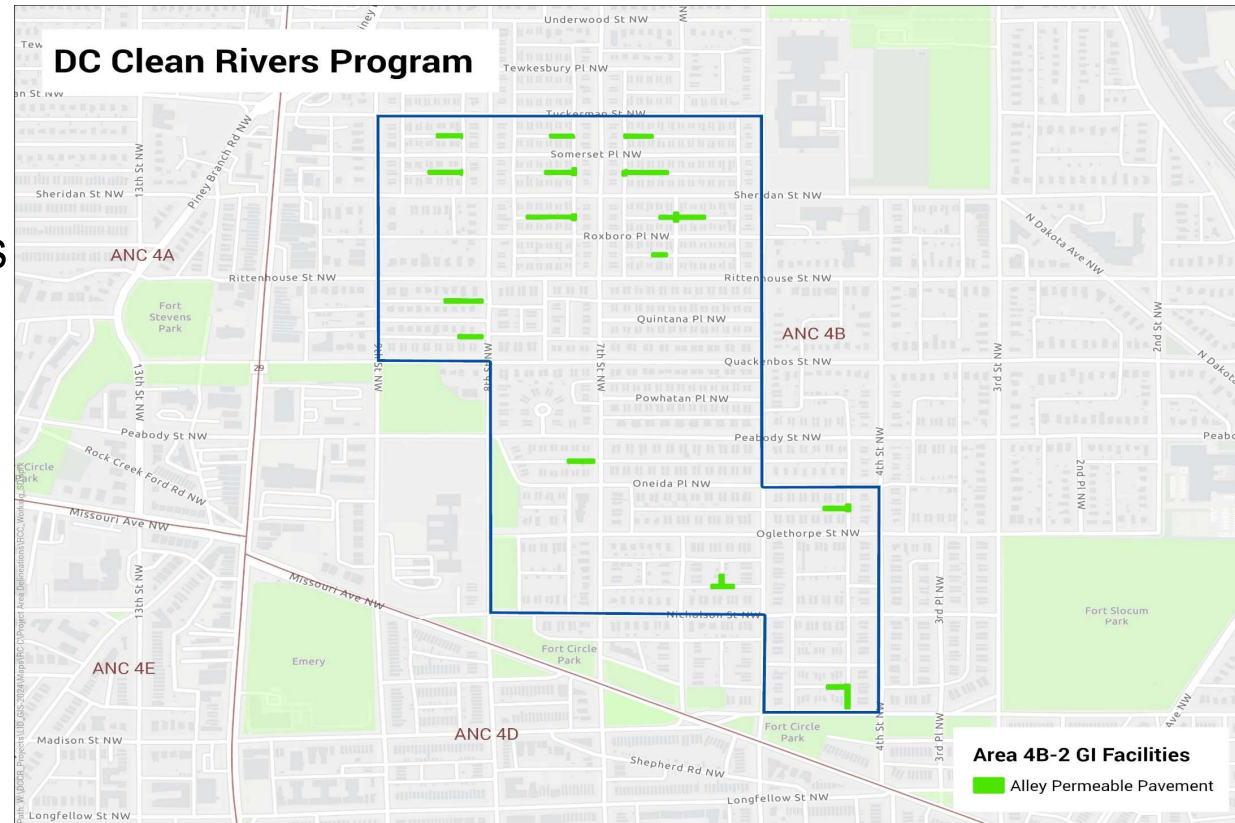


# Rock Creek Project C (RC-C): Project Area 4B-2

- ANC 4B
- Brightwood
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Fifteen (15) Permeable Alleys



Project Area 4B-2

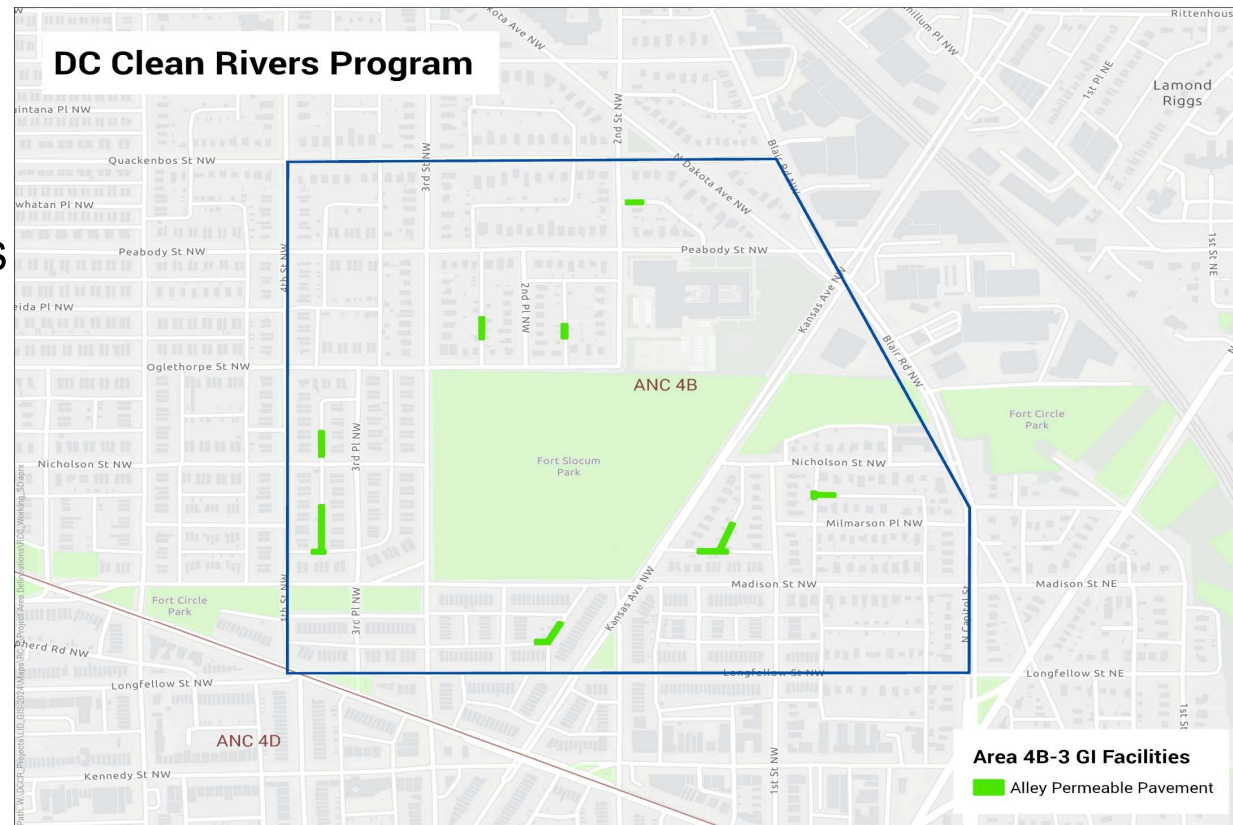


# Rock Creek Project C (RC-C): Project Area 4B-3

- ANC 4B
- Manor Park
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Eight (8) Permeable Alleys



Project Area 4B-3

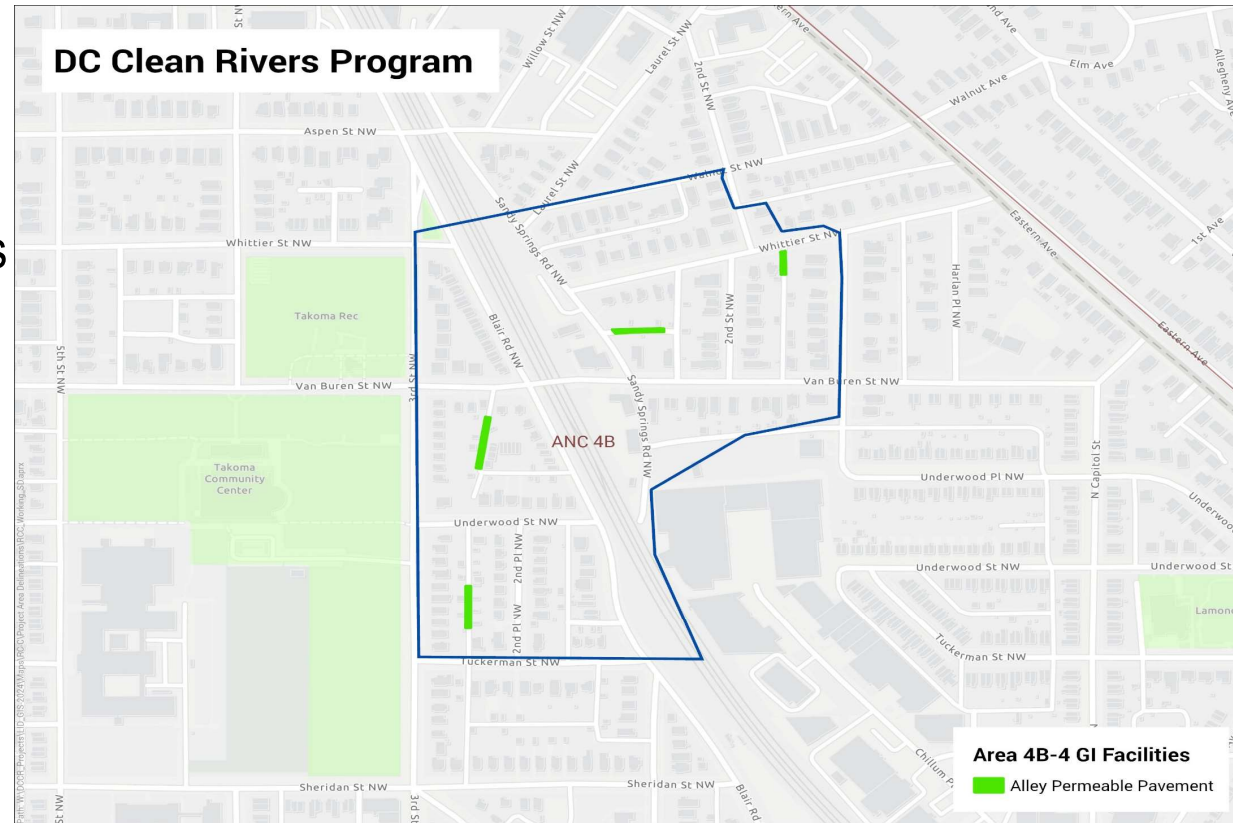


# Rock Creek Project C (RC-C): Project Area 4B-4

- ANC 4B
- Manor Park & Lamond Riggs
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Four (4) Permeable Alleys



Project Area 4B-4

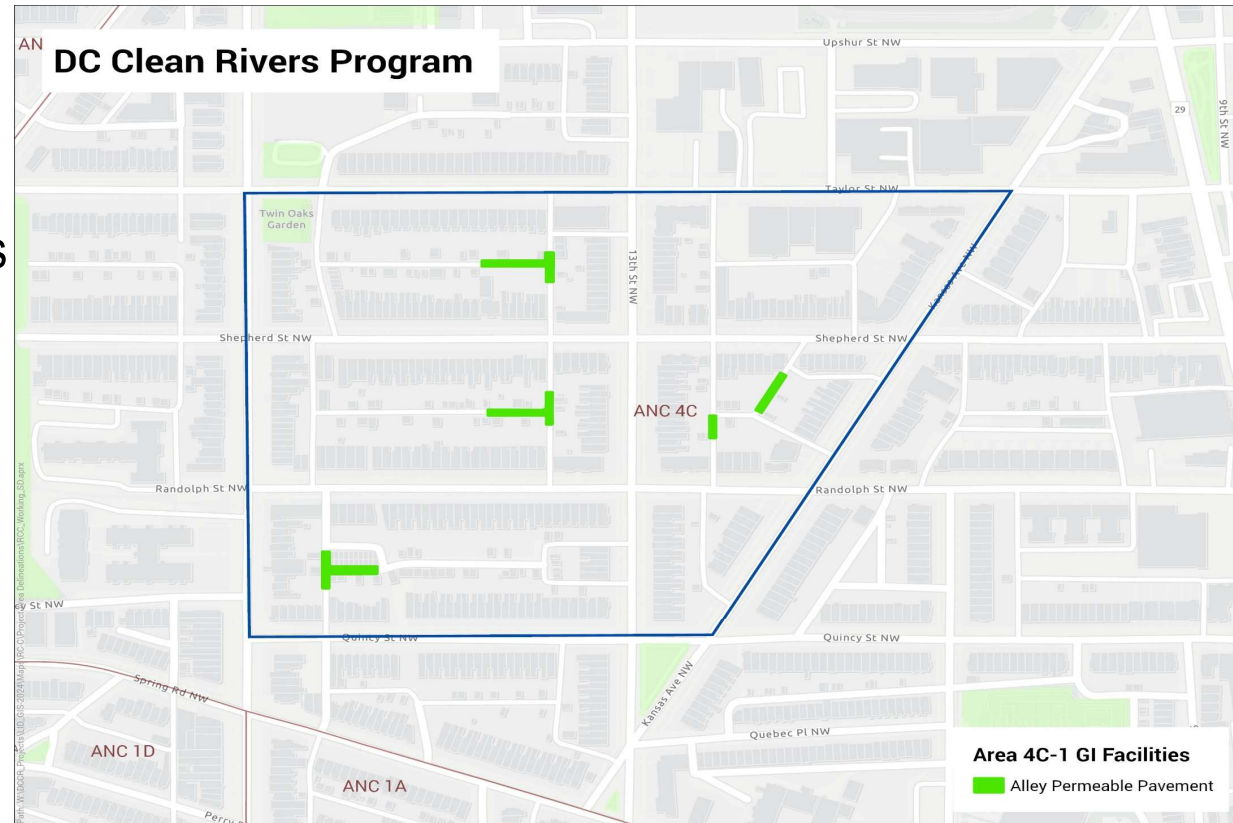


# Rock Creek Project C (RC-C): Project Area 4C-1

- ANC 4C
- Petworth
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Five (5) Permeable Alleys



Project Area 4C-1

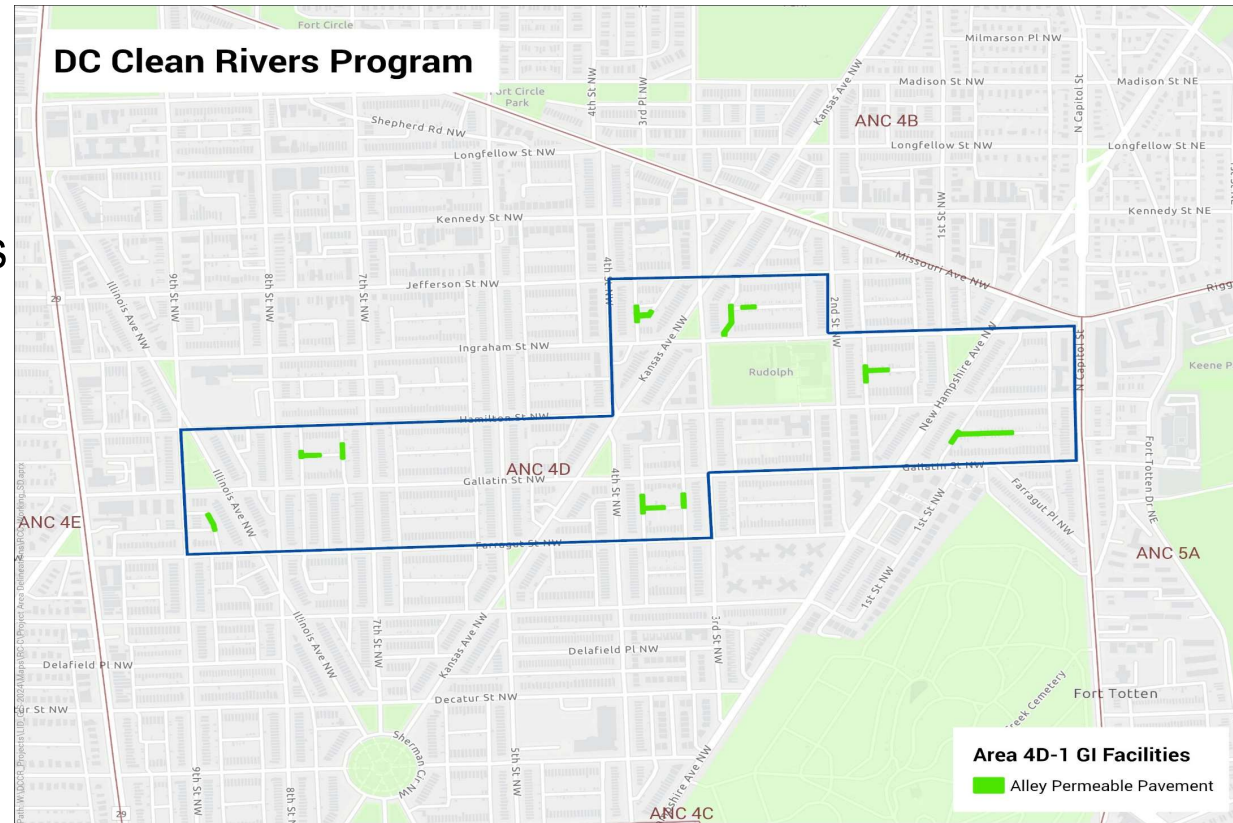


# Rock Creek Project C (RC-C): Project Area 4D-1

- ANC 4D
- Brightwood Park
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Nine (9) Permeable Alleys



Project Area 4D-1

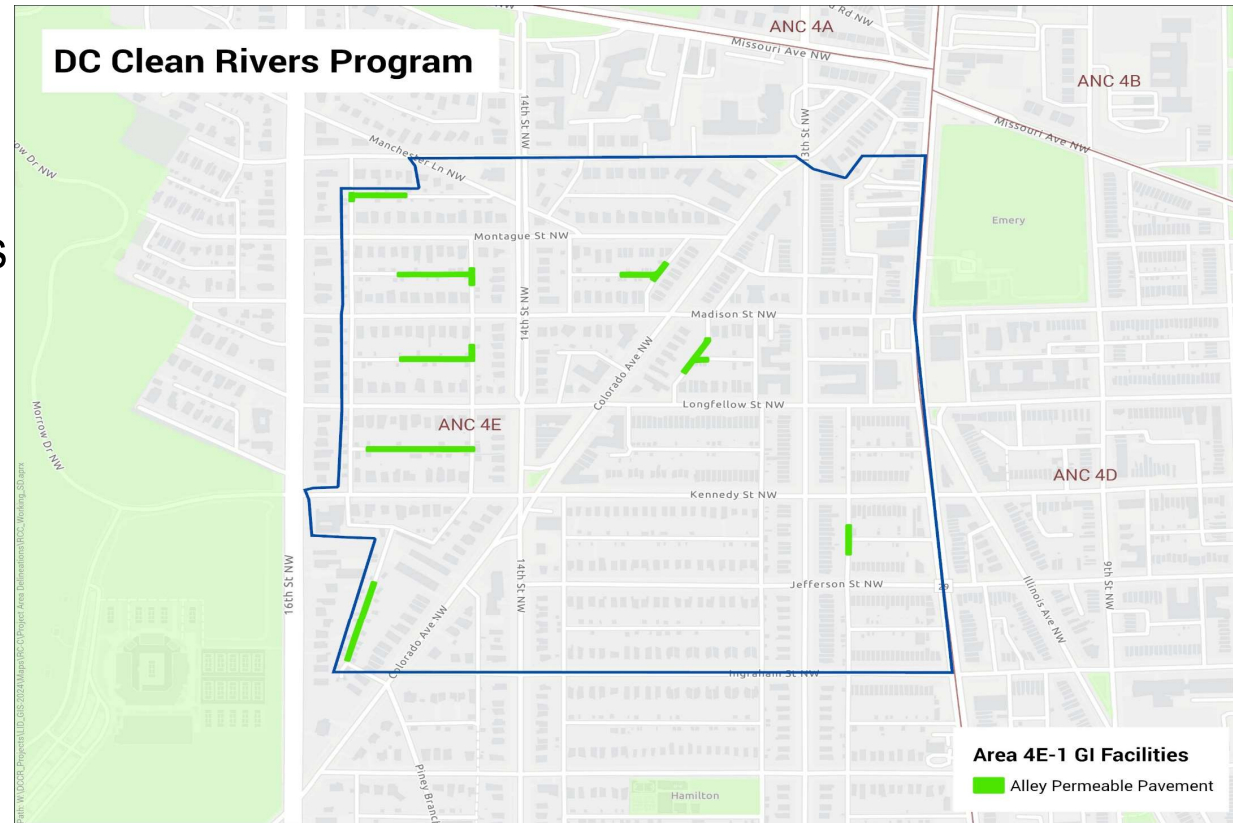


# Rock Creek Project C (RC-C): Project Area 4E-1

- ANC 4E
- 16<sup>th</sup> Street Heights
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Eight (8) Permeable Alleys



Project Area 4E-1



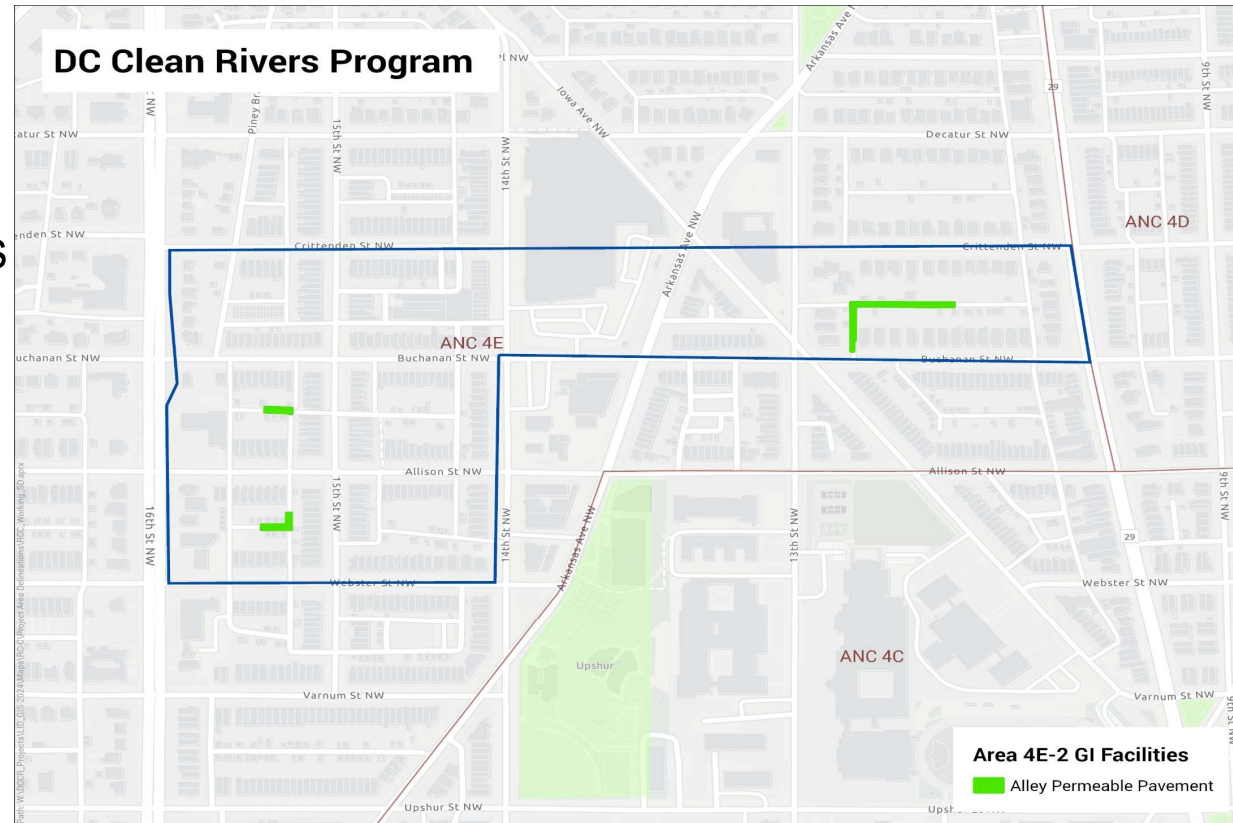


# Rock Creek Project C (RC-C): Project Area 4E-2

- ANC 4E
- 16<sup>th</sup> Street Heights & Petworth
- Mixture of residential row houses and low-density commercial properties

## Proposed Green Infrastructure:

- Three (3) Permeable Alleys



Project Area 4E-2



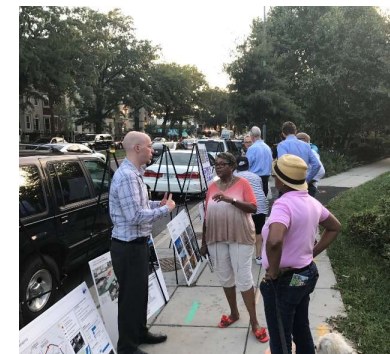
## Construction Process General Construction

- 24/7 Project Hotline
- Work Hours
  - Anticipated Weekdays: 7:00am – 7:00pm
  - Weekend work may be considered
- Water and sewer services
  - Continued service anticipated
- Site conditions
  - Site secured at the end of each workday
  - Site restored in kind per DDOT requirements at construction completion
- Site Security
  - Signage
  - Barriers or fencing
- Vibration and noise monitoring and mitigation, dust control, and rodent control will be in place throughout project.
- Access for garbage collection, other contractors, handicap access, home health care needs, etc. to be provided as needed
- Tree Protection
  - Tree protection will be provided as necessary and as required by Urban Forestry Administration permit



# Outreach Efforts and Agency Coordination

- DC Water will present at meetings to inform residents and stakeholders about the upcoming project.
  - Mayor's Office (Ward 4 MOCR)
  - Councilmember's Office (Wards 4 Representatives)
  - ANCs 4B, 4C, 4D, 4E
  - Local businesses and residents
- DC Water will provide project information to properties adjacent to sites.
- DC Water will analyze potential impacts due to construction and coordinate appropriate mitigation requirements with:
  - DDOT – Traffic, Pedestrian and Bicycle Impacts
  - WMATA – Transit Impacts
  - DOEE – Environmental Impacts
  - FEMS – Fire and Emergency Services
  - DPW – Garbage Collection
- DC Water will notify the community and post signage regarding any alley closures, traffic, pedestrian, bike and scooter, parking, and public transport impacts.





## GI Maintenance: Typical Maintenance Activities

- DC Water is responsible for maintenance of all DC Water GI facilities.
- Permeable Pavement
  - Vacuum sweeping- once (1) every other month (March-December)
  - Other activities may include (as needed):
    - » Removal of leaves, weeds and sediments
    - » Cleaning of underdrains and inspections



   
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**Green Infrastructure Program**

**PERMEABLE PAVEMENT**

report issues: 202-354-3600  
or [custserv@dcwater.com](mailto:custserv@dcwater.com)

learn more:  
[dcwater.com/green](http://dcwater.com/green)

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Draft Project Description Rock Creek  
Project C published on April 6, 2024

Public Comment Period closes on  
May 10, 2024

## Questions

Draft Project Description for RC-C is  
available on DC Water's website:  
[https://www.dewater.com/green-  
infrastructure](https://www.dewater.com/green-infrastructure)

Comments can be sent by e-mail to:  
[cleanriversgi@dewater.com](mailto:cleanriversgi@dewater.com)



## Rock Creek Project C – Outreach Contacts

**Andy Galli**

DC Clean Rivers Project

Green Infrastructure Public Outreach Coordinator

[cleanriversgi@dcwater.com](mailto:cleanriversgi@dcwater.com)

(202) 787-4148