



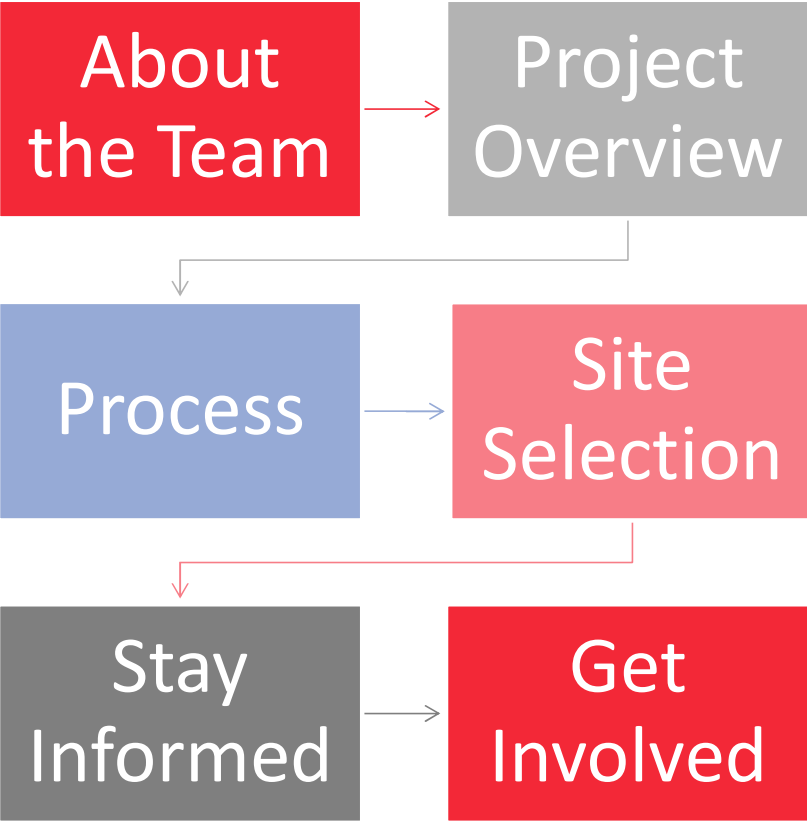
# STORMWATER MANAGEMENT AND GREEN INFRASTRUCTURE DESIGN PROJECT

*Four Sub Watersheds: Hickey Run, Nash Run, Fort Dupont, Pope Branch*

**Presenter: Jo-Elle Burgard**



# AGENDA



# DDOT Project Team

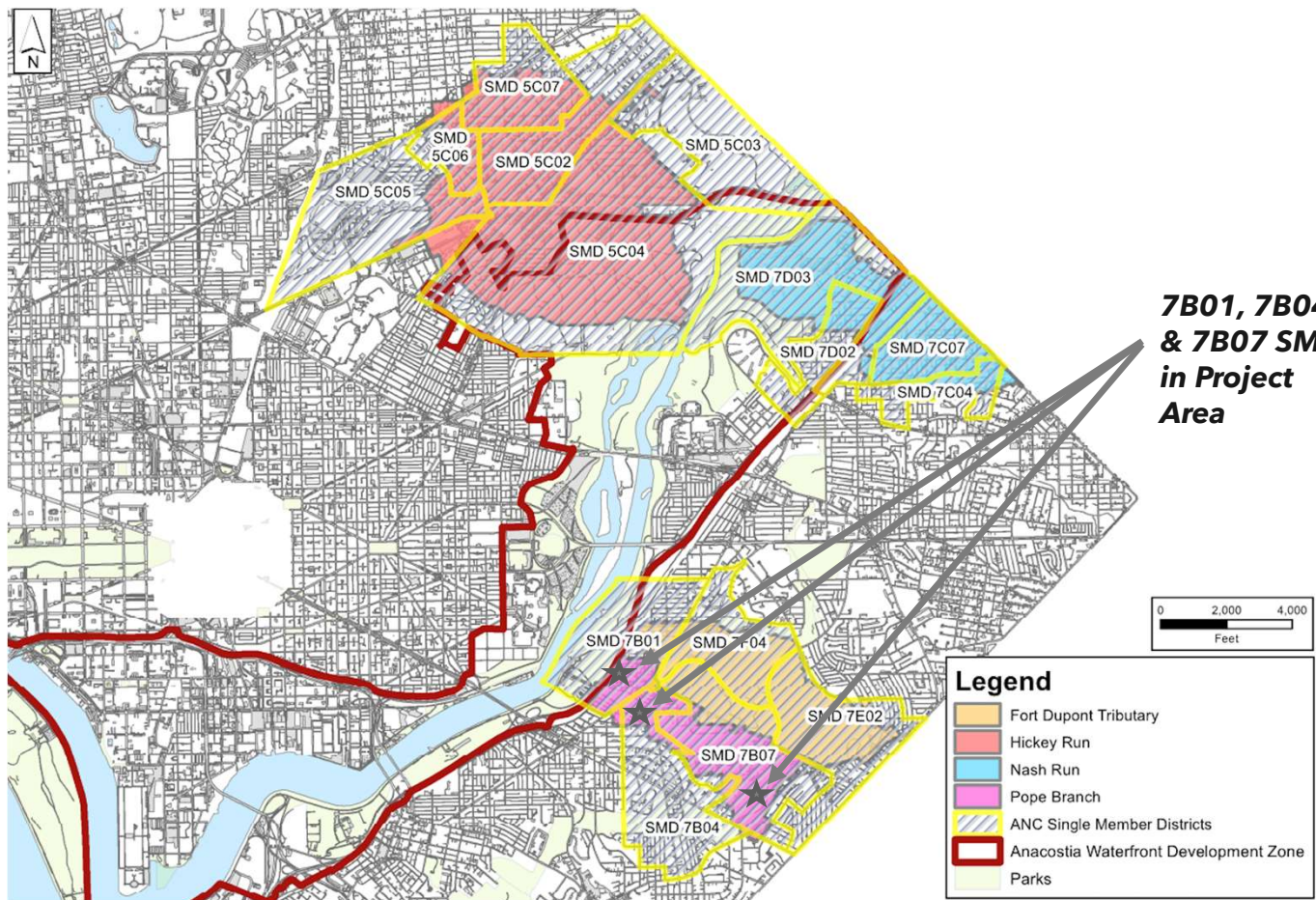


Project Lead Consultant

Green Infrastructure Designer

Public Engagement & Site Screening

# PROJECT AREA



**7B01, 7B04  
& 7B07 SMDs  
in Project  
Area**

**Legend**

- Fort Dupont Tributary
- Hickey Run
- Nash Run
- Pope Branch
- ANC Single Member Districts
- Anacostia Waterfront Development Zone
- Parks

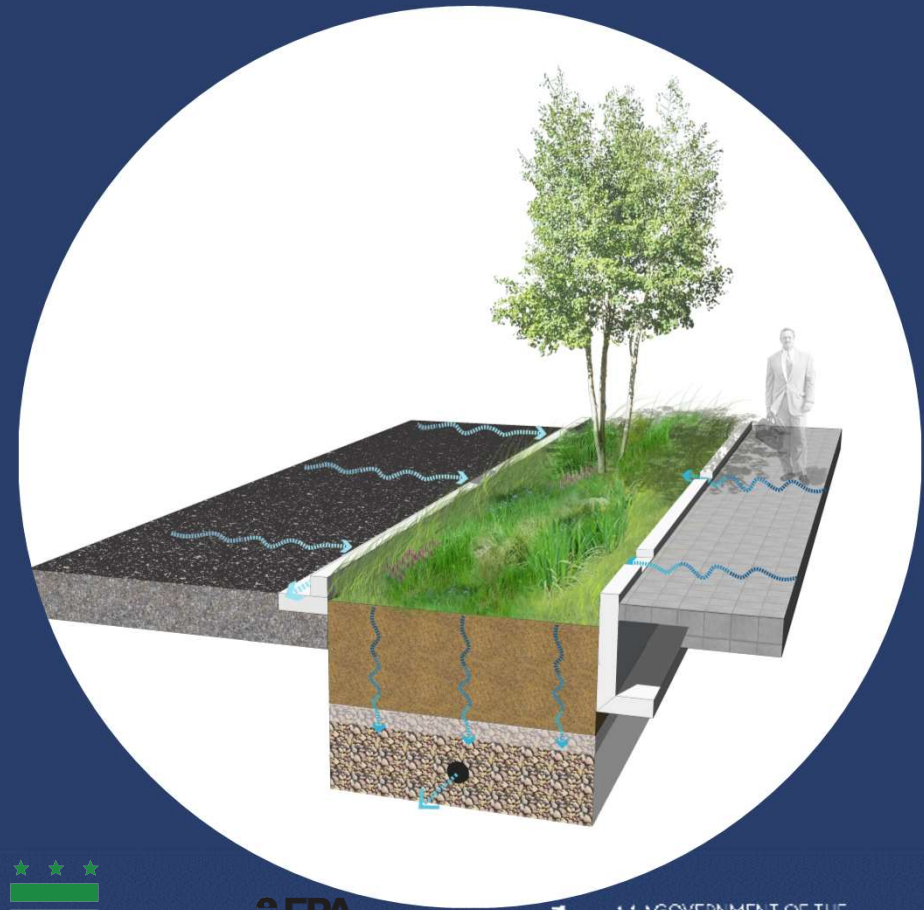
## THE CHALLENGE

- The overall goals of this project are to improve water quality and help reduce water quantity impacts to the Anacostia River from stormwater.
- DOEE developed a list of targeted subwatersheds that have the biggest water quality impacts to Anacostia
  - *The Hickey Run, Nash Run, Pope Branch, and Fort Dupont are the 4 watersheds selected for the project*



# THE SOLUTION

- Green Infrastructure - Stormwater management approach that mimics the natural water cycle to absorb and treat rainwater incorporating landscaping features and green spaces
  - Plants, trees, permeable pavement
- Project will capture rainwater from 360,000 square feet of impervious surfaces such as roadways

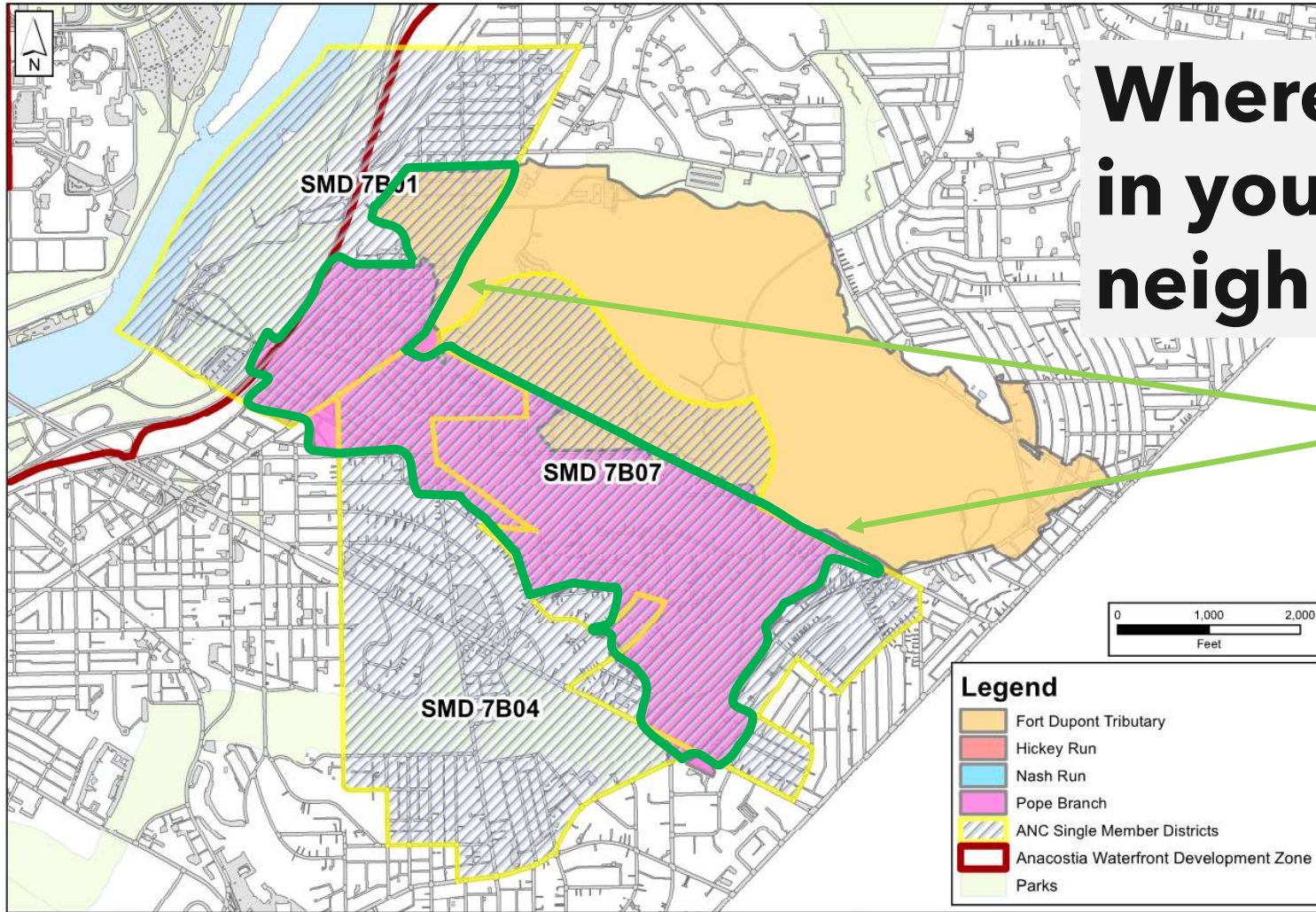


# What's Happening In Your Neighborhood?



# Where are we in your neighborhood?

*We're focusing on the areas outlined in green*





# How Does This Benefit You?



## **USE AS TRAFFIC CALMING TO REDUCE ROADWAY HAZARDS FOR PEDESTRIANS, CYCLISTS, AND MOTORISTS**

*MAKES OUR NEIGHBORHOODS  
SAFER BY REDUCING MOTORIST  
SPEEDS AND ACCIDENTS*



## **NEIGHBORHOOD BEAUTIFICATION**

*PLANTS AND TREES CAPTURE  
AND ABSORB STORMWATER TO  
HELP REDUCE UNSAFE  
CONDITIONS LIKE FREEZING IN  
WINTER AND LOCALIZED  
FLOODING IN SUMMER*



## **CONSERVE ENERGY**

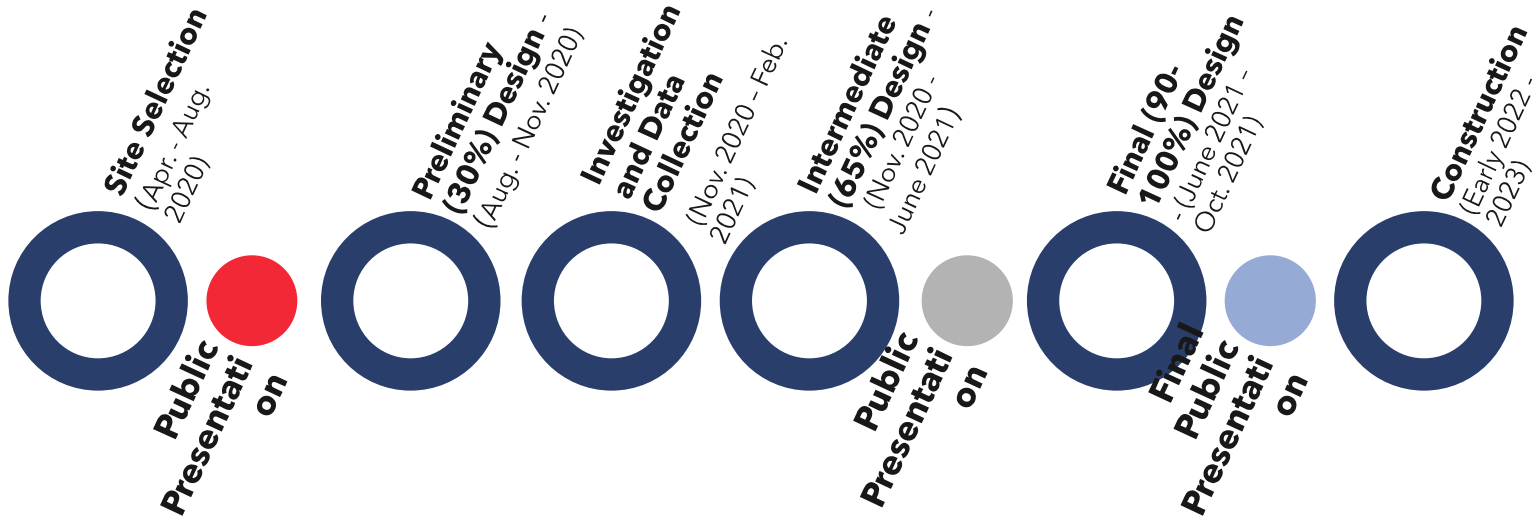
*TREES HELP WITH HEAT ISLAND  
EFFECT, WHICH HELPS REDUCE  
ROADWAY AND OUTDOOR  
TEMPERATURES*



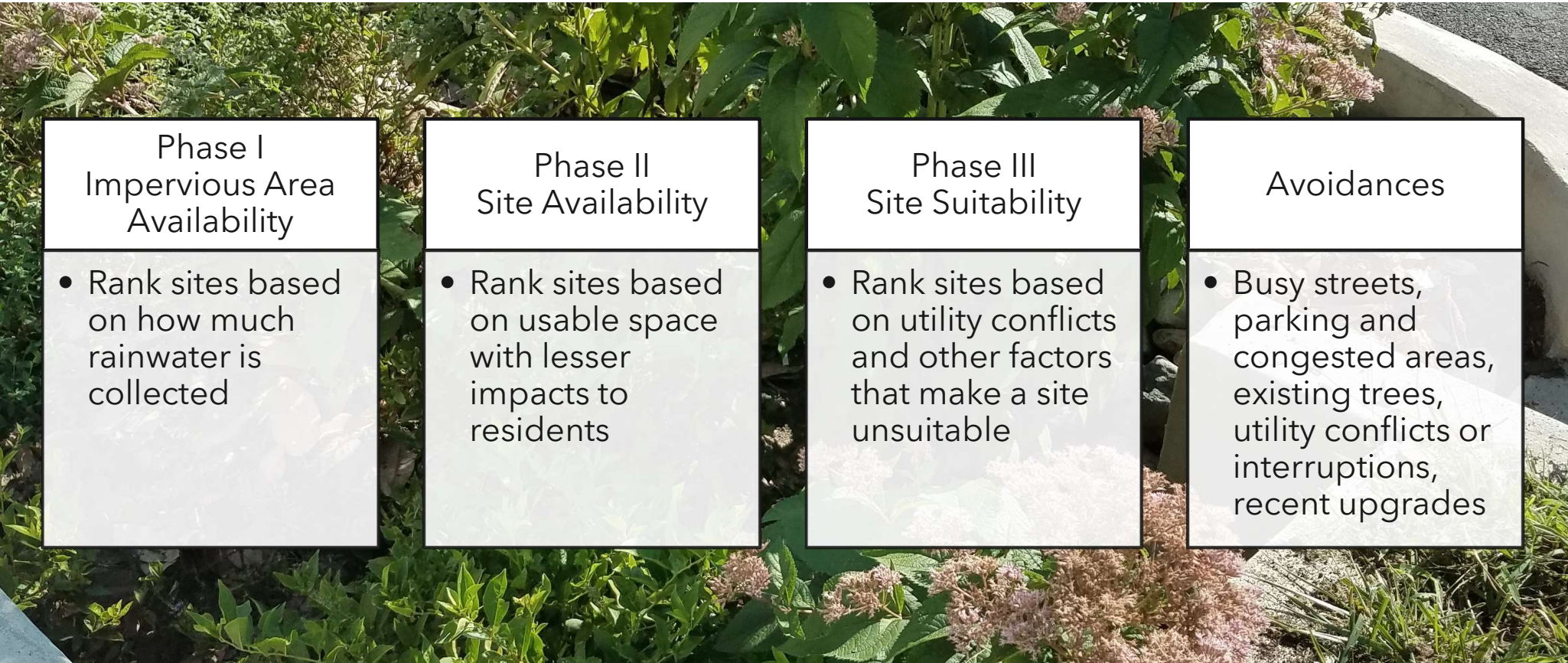
## **ENHANCES STREAMS AND RIVERS**

*REDUCES POLLUTION AND EROSION  
IN THE ANACOSTIA RIVER  
CONNECTS AND IMPROVES  
WILDLIFE HABITAT*

# DESIGN PROCESS



# SITE SELECTION



**Phase I  
Impervious Area  
Availability**

- Rank sites based on how much rainwater is collected

**Phase II  
Site Availability**

- Rank sites based on usable space with lesser impacts to residents

**Phase III  
Site Suitability**

- Rank sites based on utility conflicts and other factors that make a site unsuitable

**Avoidances**

- Busy streets, parking and congested areas, existing trees, utility conflicts or interruptions, recent upgrades





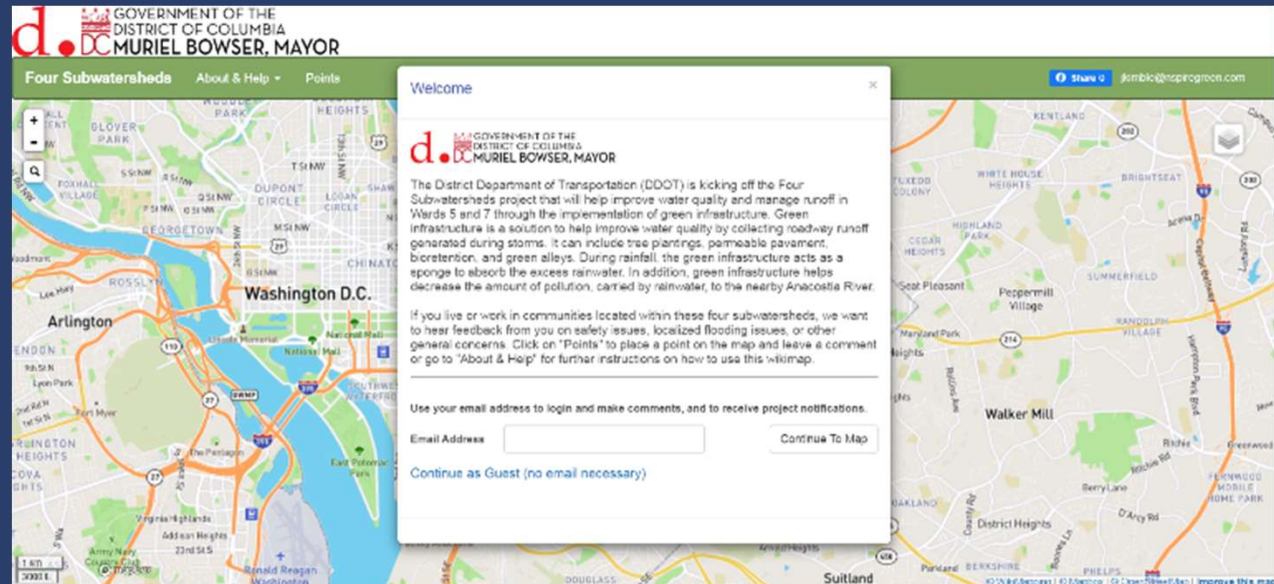
**We Need Your Feedback!**

# NEXT STEPS

COLLECT YOUR FEEDBACK

DEVELOP PRELIMINARY DESIGN

COLLECT MORE FEEDBACK!



VISIT [HTTPS://WIKIMAPPING.COM/FOUR-SUBWATERSHEDS.HTML](https://wikimapping.com/four-subwatersheds.html) TO GIVE YOUR FEEDBACK





# STAY INFORMED



EMAIL JO-ELLE BURGARD AT  
**[JOELLE.BURGARD@DC.GOV](mailto:JOELLE.BURGARD@DC.GOV)**  
GREEN INFRASTRUCTURE TEAM



WEBSITE  
**[WWW.FOURSUBWATERSHEDS.COM](http://WWW.FOURSUBWATERSHEDS.COM)**



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District Department of Transportation