# CONGRESS HEIGHTS ENVIRONMENTAL RESTORATION PROJECT

## PUBLIC STAKEHOLDER MEETING SEMI-FINAL DESIGNS

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DPR DC DEPARTMENT OF PARKS AND RECREATION

DEPARTMENT OF ENERGY & ENVIRONMENT

WE ARE WASHINGTON DC GOVERNMENT OF THE DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

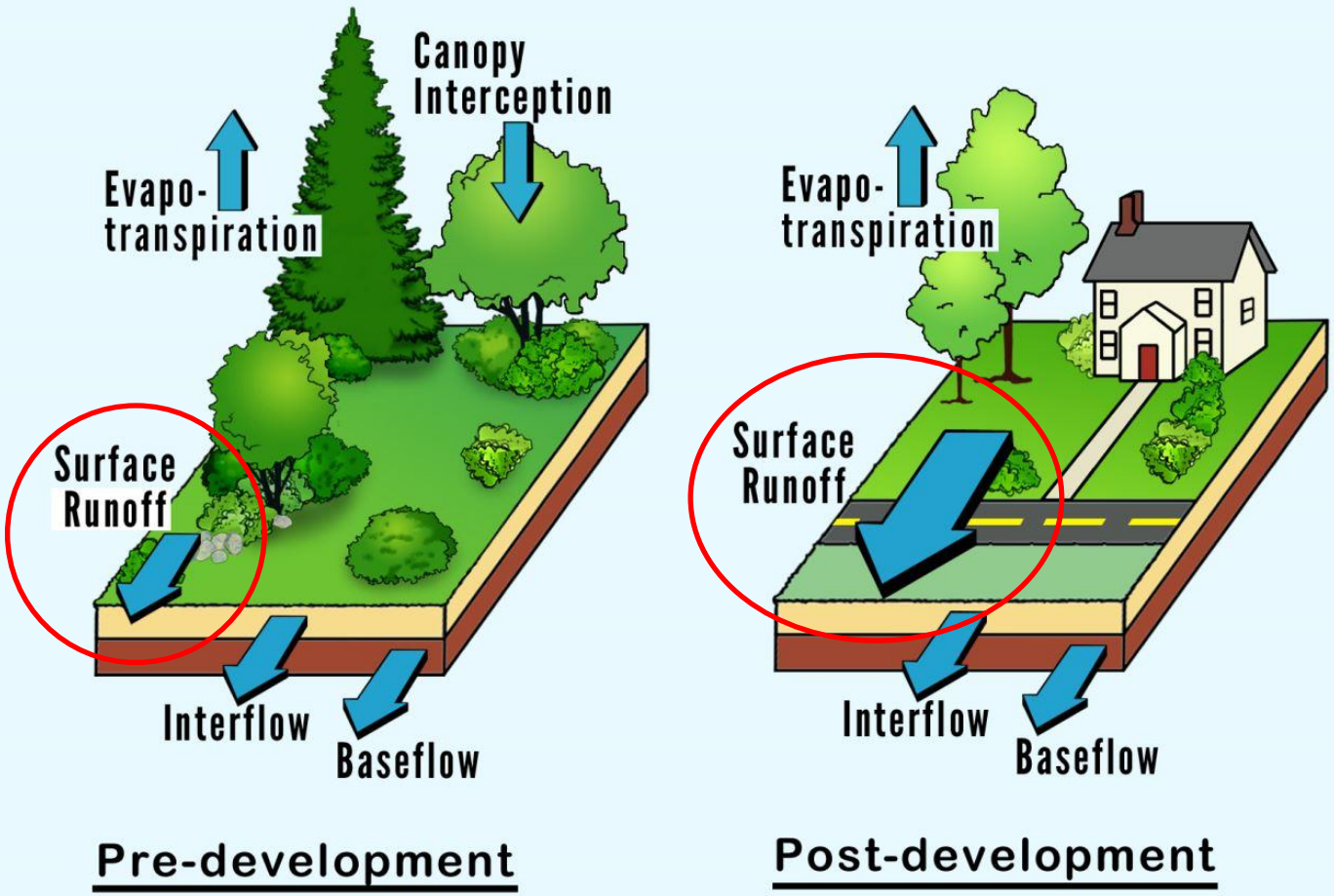
# AGENDA

- Project Area & Background
- Existing Conditions
- Project Objectives
- Restoration Approach
- Timeline
- Q&A

# PROJECT LOCATION

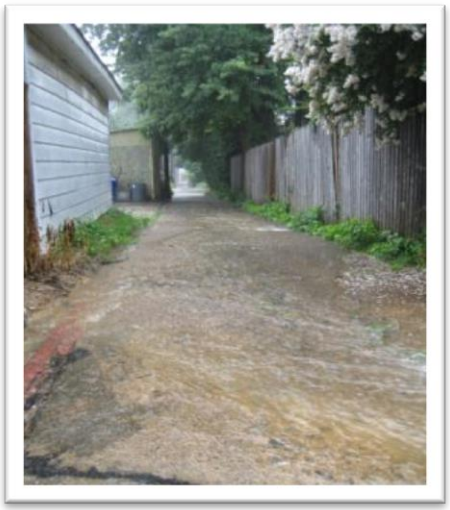
# BACKGROUND

Figure 1.1 Water Balance at a Developed and Underdeveloped Site
(Source: Schueler, 1987)




Surface runoff is minimal in an undeveloped site, but dominates the water balance at a highly impervious site.

# PROBLEM OF STORMWATER POLLUTION



# EXISTING CONDITIONS

- Soggy Conditions
- Standing water at times
- Invasive Plants
- Social Trail

# Stormwater from adjacent lands travels through gully to storm drain.

# RESTORATION APPROACH

Most stormwater practices all work the same way: they collect stormwater runoff and use or mimic natural processes that result in the infiltration, evapotranspiration or use of stormwater in order to protect water quality and associated aquatic habitat (EPA).

*Slow it down, Spread it Out, Soak it In !*

Some examples follow…

# EXAMPLES INCLUDE


Bioretention


Permeable Pavement

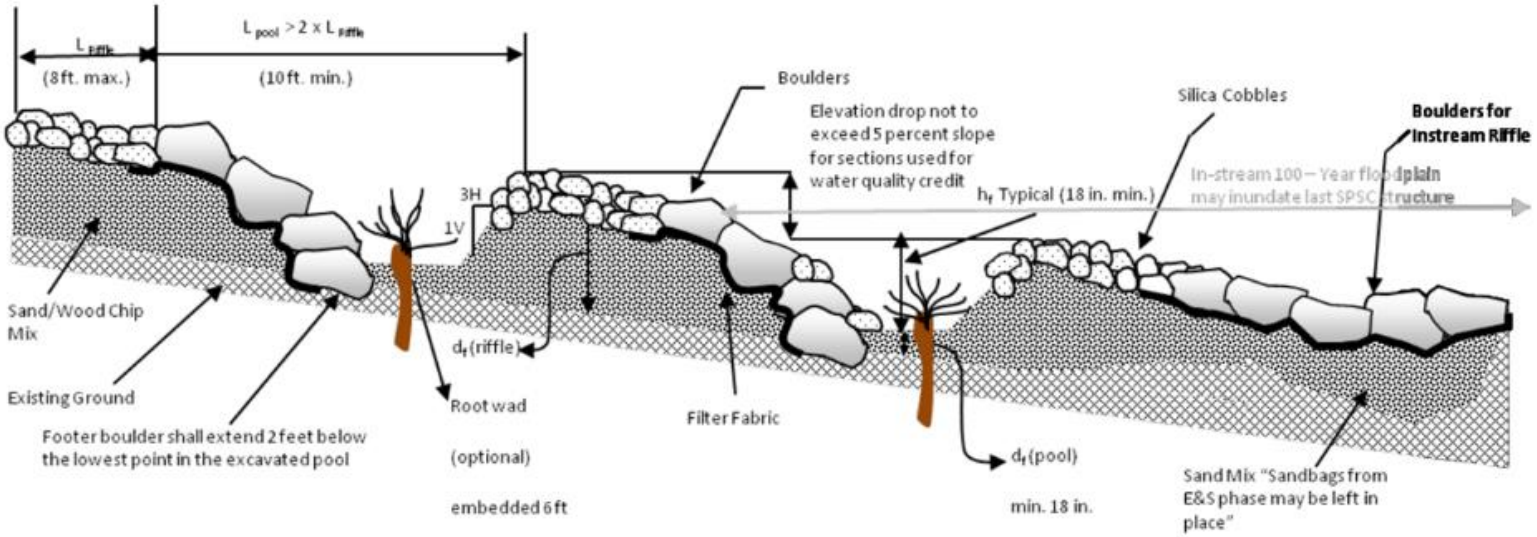

Bioretention


Permeable Pavement

# REGENERATIVE STORMWATER CONVEYANCE

A.

B.




**Typical Profile – Alternating Pools and Riffles**

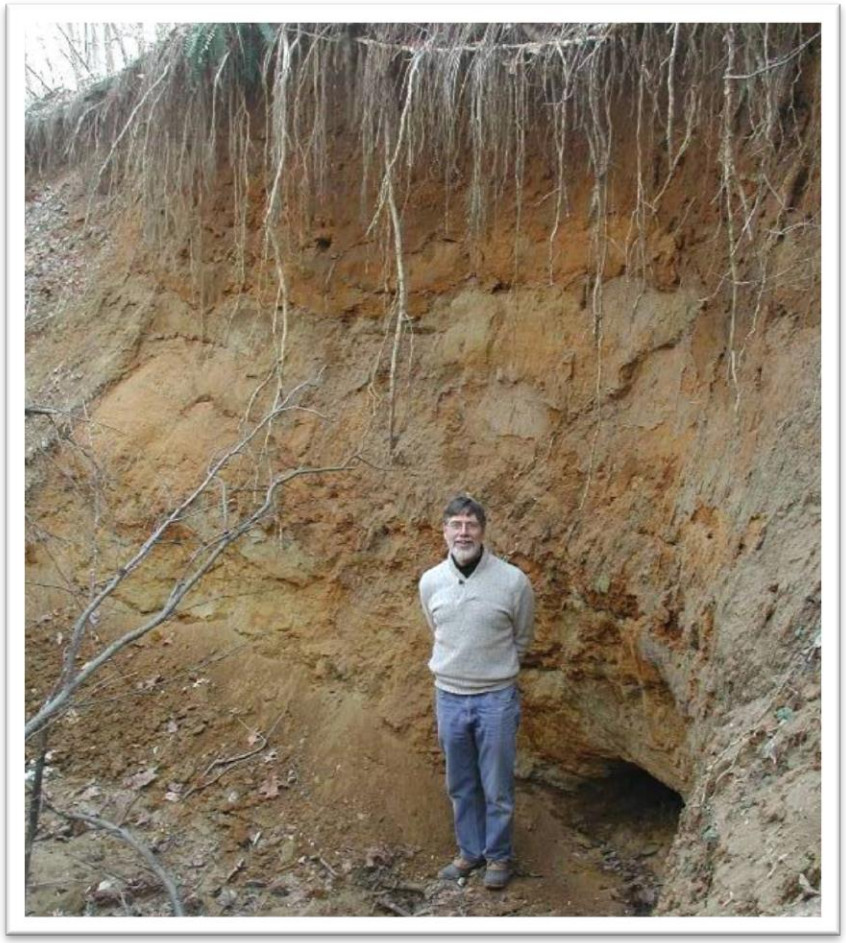
# SOME EXAMPLES

PRE RESTORATION

POST RESTORATION

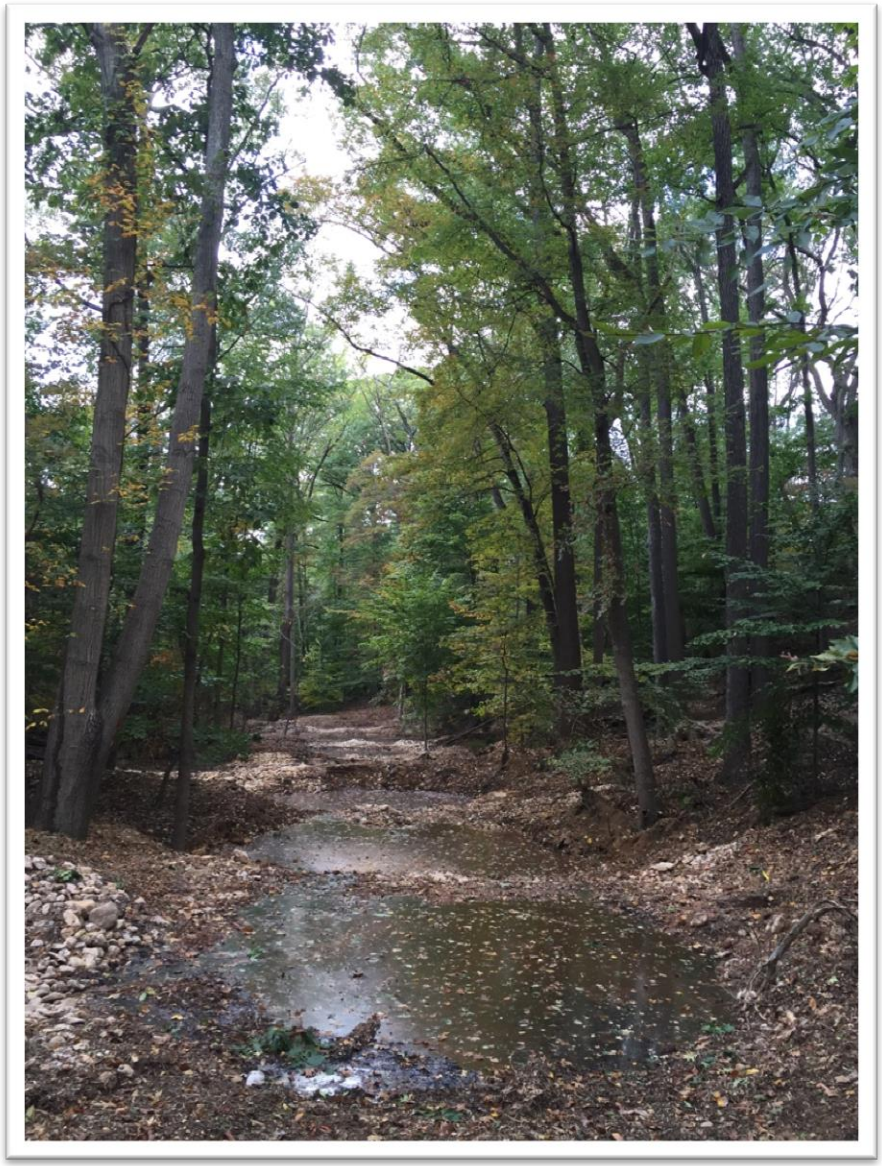
PRE RESTORATION

POST RESTORATION



PRE RESTORATION

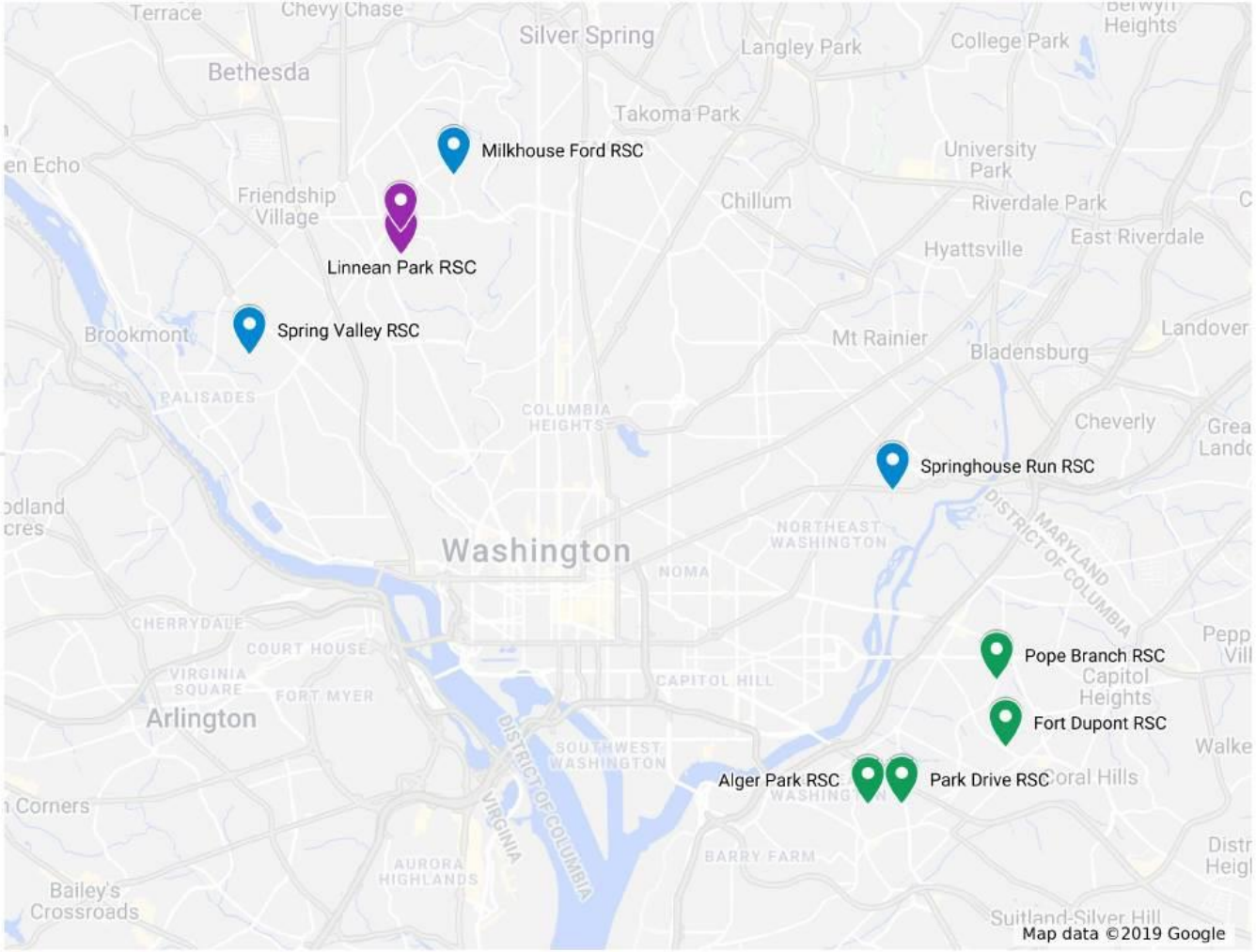
POST RESTORATION



# DOEE RSC Projects

DOEE RSCs (partial)

- Fort Dupont RSC
- Spring Valley RSC
- Alger Park RSC
- Springhouse Run RSC
- Linnean Park RSC
- Broad Branch RSC
- Pope Branch RSC
- Milkhouse Ford RSC
- Park Drive RSC



POST-RESTORATION TYPICAL STREAM IMPROVEMENT

CONSTRUCTION ACCESS FROM RECREATION CENTER

CONSTRUCTION ACCESS FROM DOT ALLEYWAY

STAGING AND STOCKPILE AREA

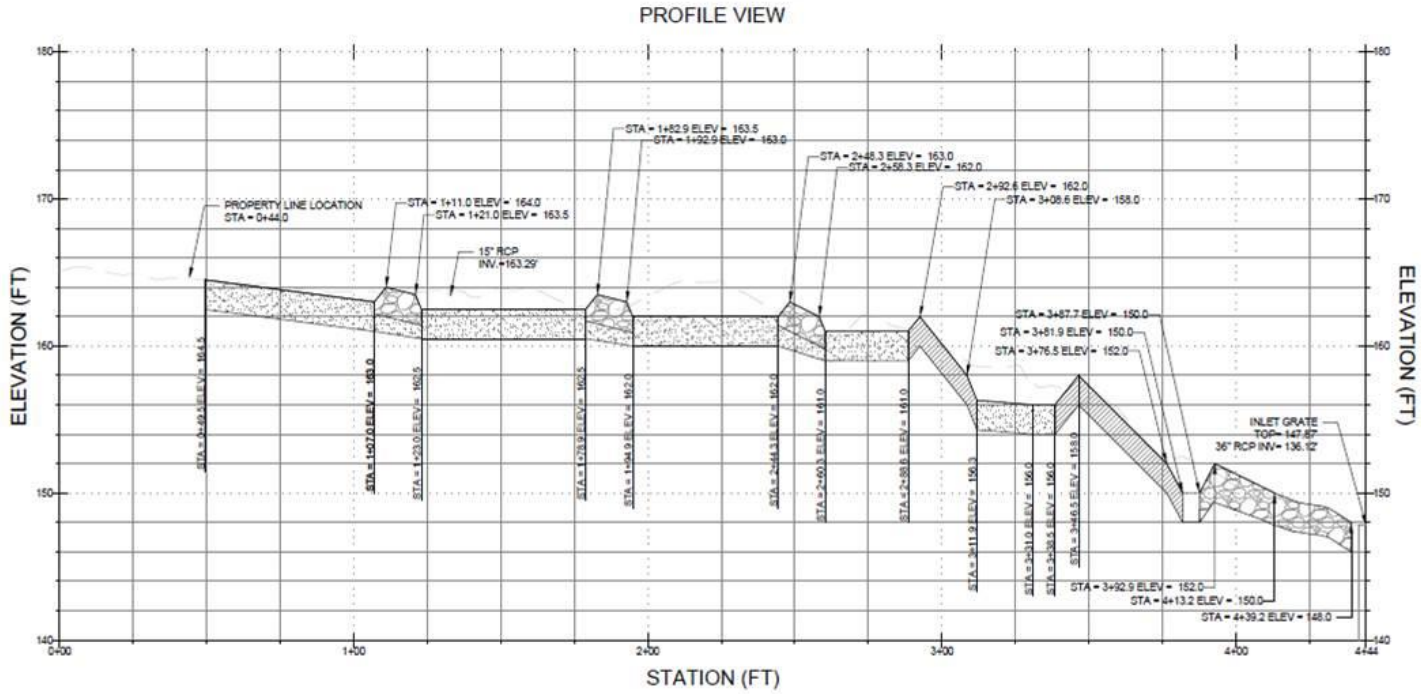
CONGRESS HEIGHTS RECREATION CENTER

CLEAN OUT BLOCKED STORM DRAIN OUTLET

4+44

LEGEND

- CASCADE
- RIFFLE
- POOL
- PROPOSED TRAIL
- EXISTING TREE CANOPY
- CONSTRUCTION ACCESS ROUTE




PROFILE LEGEND

EXISTING GROUND

PROPOSED GRADE

RIFFLE

CASCADE

CHANNEL FILL (SAND AND MULCH)

VERTICAL SCALE

HORIZONTAL SCALE

0 20 40

# PROJECT OBJECTIVES/ ASSUMPTIONS

- Create a healthy, functioning, and self-sustaining ephemeral tributary
- Control and treat runoff from adjacent impervious and compacted areas in the most cost effective way
- Protect, enhance and create wildlife habitat
- Remove and suppress growth of invasive species
- Work only on District land
- Minimal impacts to the community
- Development of a community amenity
- Educational opportunities

# PROJECT TIMELINE

- November 2018: contract awarded
- November – January 2019: field assessment (topo, geotech etc.)
- January – June 2019: design development
- 3 public meetings:
  - ~~Concept designs~~
  - Semi-final designs (~65%)
  - Construction kickoff meeting (timeline)
- September 30, 2019: construction completed*

# FAQs

- **How do we find our project sites?**
  - Enthusiastic landowners!
  - Funding sources
  - Large areas of untreated impervious cover
  - More impactful locations

- **What can I do?**
  - RiverSmart Homes
    - Rain Gardens
    - Permeable Pavers
    - Rain Barrels
    - Tree Planting
    - "BayScaping"

RIVERSMART
DEPARTMENT OF ENERGY AND ENVIRONMENT

# QUESTIONS?