Congress Heights Environmental Restoration Project

Public Stakeholder Kickoff Meeting November 27, 2018

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District Department of Energy and Environment





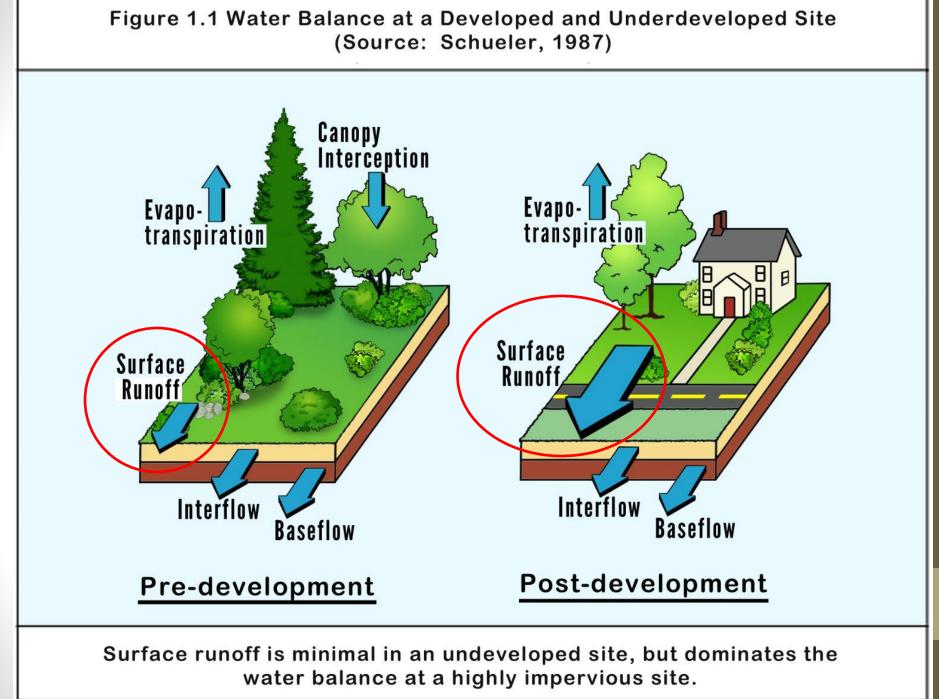
Agenda

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

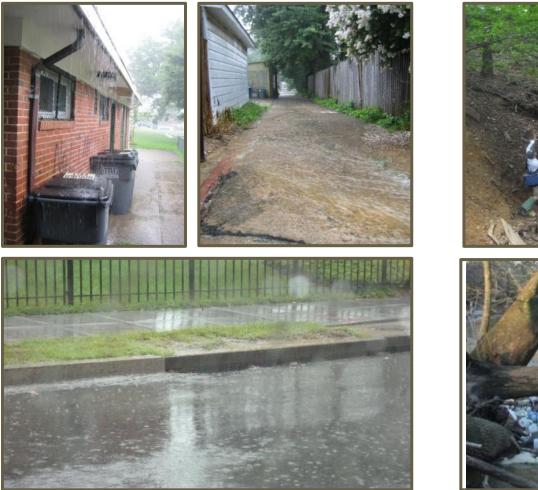
Project Location



BACKGROUND



Problem of Stormwater Pollution





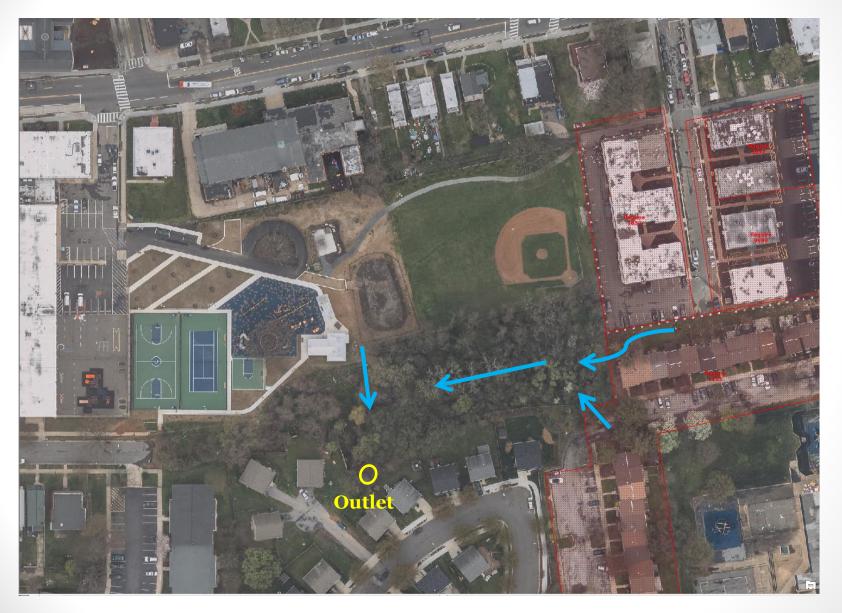
Existing Conditions

- 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...

Some examples include...



Bioretention

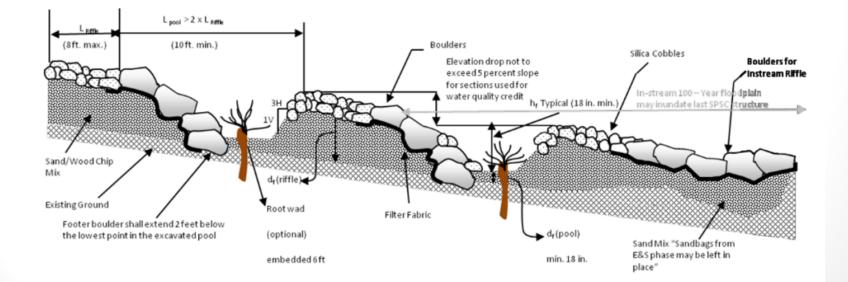




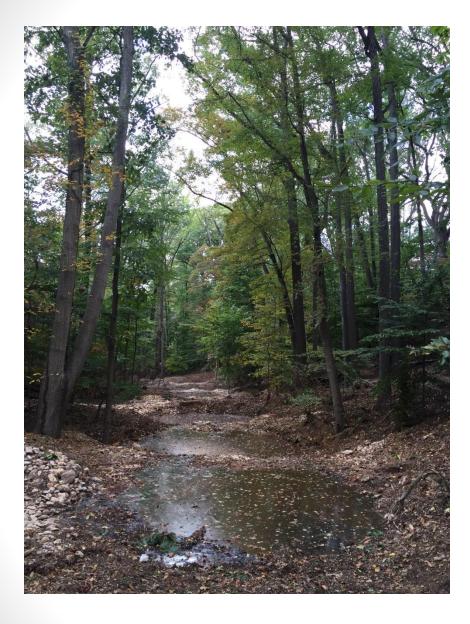
Permeable Pavement



Regenerative Stormwater Conveyance

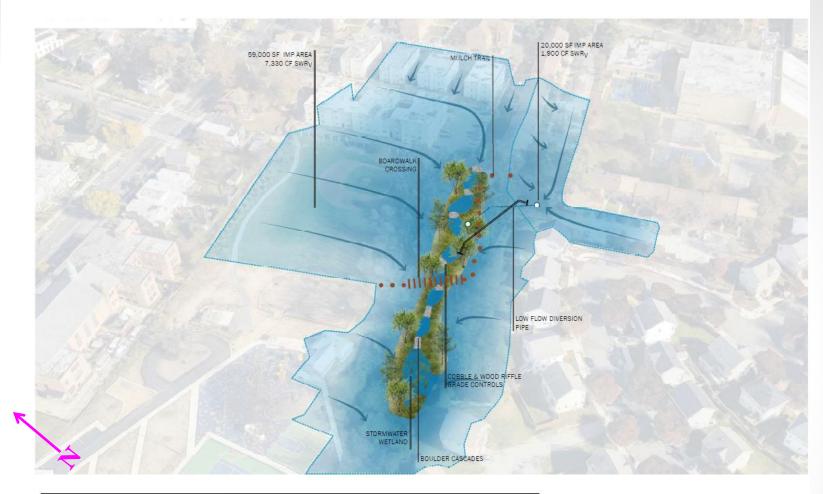


Typical Profile - Alternating Pools and Riffles









		Contributing Drainage Area							
CDAID	Paved Drainage Area SF	rea Compacted Natural	BMP SF	Total SF	р	IN	Stormwater Retention Volume (SWRs) CF	Max Stormwater Retention Volume - 1.7" (SWRv 1.7) CF	
RSC Drainage Area	79,000	50,000	46,000	5,000	190,0	00	1.2	9,230	12,403

DOEE Congress Heights Recreation Washington, D.C. LID Structure Sites April 2, 2018

Project Objectives

- Create a healthy, functioning, and self-sustaining ephemeral tributary
- Reduce nutrient and sediment yields
- Restore riparian function
- Control and treat runoff from adjacent impervious and compacted areas
- Maximize habitat creation for local flora and fauna
- Improve overall water quality benefits through this ecosystem establishment
- Remove and suppress growth of invasive species
- Create a community amenity
- Be cost-effective

Assumptions

- Treat maximum amount of stormwater from the site in the most cost effective way
- 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"





Questions

