Plenary 6: Flood Policy and Storm Water Management

Day 2 - Guam Assembly of Planners Symposium

Catherine McCall, Maryland Coastal Management Program





Stormwater Management in Maryland







Total Maximum Daily Load







Community ResiliencePartnerships

runa source. NOAA-CZM (Federal)

Building Flood Resilience:

Reducing coastal and precipitationbased flood risks to build community resilience to climate change





Trust Fund &

Resiliency through Restoration

Fund Sources:

NOAA-CZM (Federal); Maryland Trust Fund and Resiliency through Restoration (State)

NonPoint Source & Resilient Restoration:

Accelerate recovery and restoration of natural resources and reduce community flood risk by implementing nonpoint source and resilient restoration projects.

City of Hyattsville: Lower Ward 1

Resilient Stormwater Planning Study

Project Partners:





Low Impact
Development
Center



Funding Partners:

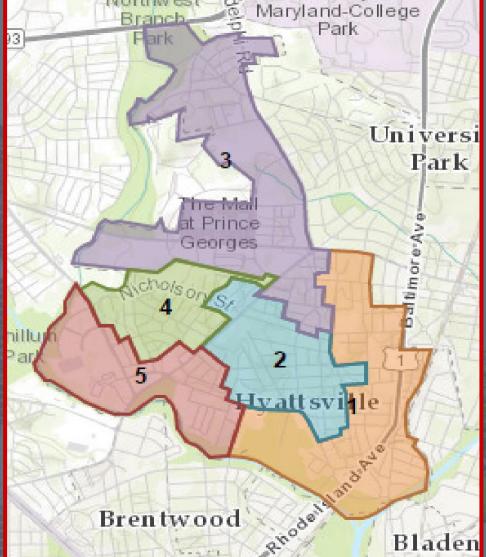






















Challenge 1: Limited Grey Infrastructure Information

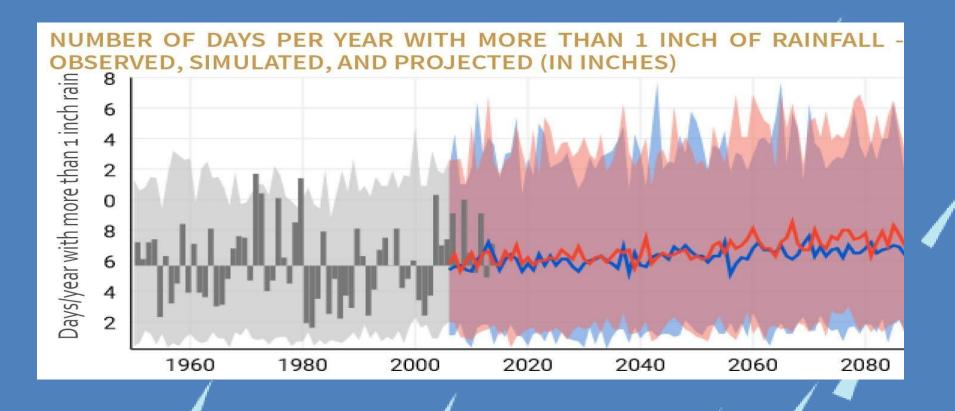
168-acre study area

- ✓ Defined by topography & existing grey infrastructure
- ✓ Areas draining to Northeast & Northwest branches of the Anacostia River





Challenge #2: Understanding Precipitation Trends & Modeled Rainfall



Current

Frequency – Duration	6-hr	24-hr
10-year	3.35	4.88
50-year	4.69	7.20

Future

Frequency – Duration	6-hr	24-hr
10-year	4.19	6.10
50-year	5.86	9.00

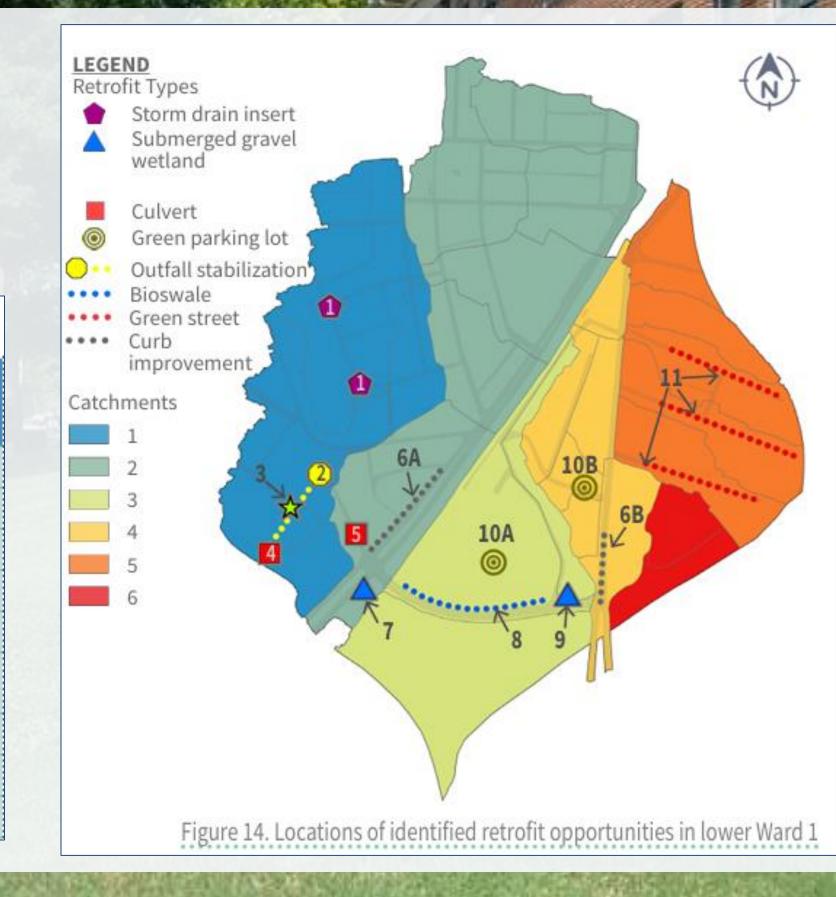


Project Deliverables

- Mapped stormwater network
- Identified retrofit opportunities

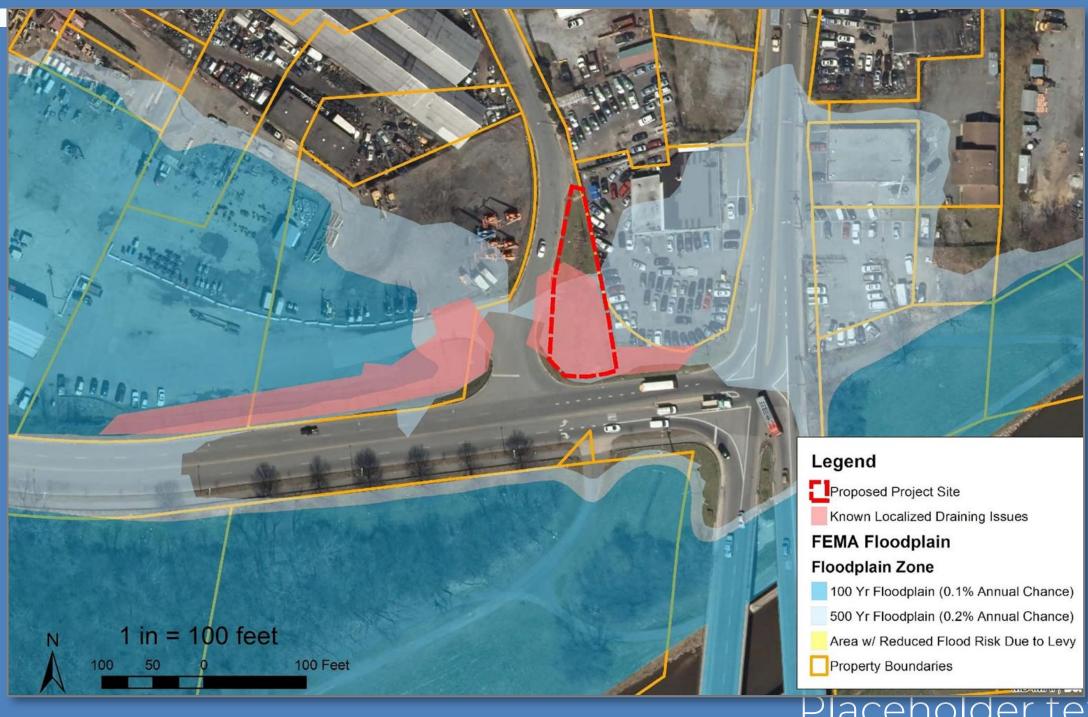
IDENTIFIED RETROFIT OPPORTUNITIES

id	Project name	Location	Localized Flood Reduction Benefit	Water Quality Benefit	PRIORITY	Time frame	COST ESTIMATE design+install
1	41st Place storm drain inserts	41st Pl. at Emerson; 41st Pl. at Decatur St.	Minimal	Medium	Low	Mid- to Long- term	\$10,000 - \$12,0000
2	41st Street outfall protection	41st St. from 41st Pl. to Northwest Branch Trail	High	Medium	High	Short-term	\$150,000- \$250,000
3	41st Street pocket wetland	41st St. trail, near Northwest Branch Trail	Low	Medium	Medium	Short- to Mid- term	\$75,000- \$150,000
4	41st Street trail culvert	41st St. trail, adjacent to the Northwest Branch Trail	High	Low	High	Short-term	\$40,000- \$60,000
5	41st Place stream crossing	41st Pl., near Melrose Park	Low	Minimal	Low	Mid-term	\$30,000- \$50,000
6A 6B	Rhode Island Avenue Baltimore Avenue curb improvements	Rt. 1 southbound, Braxton Pl. to 41st Pl. Alt-Rt. 1 near Charles Armentrout Dr.	Medium	Minimal	Medium	Mid-term	SHA Project Not Estimated
7	Rhode Island Avenue submerged gravel wetland	Rt. 1 northbound, southeast of Charles Armentrout Dr. intersection	Low	High	Medium	Mid-term	SHA Project Not Estimated
8	Charles Armentrout bioswale	Charles Armentrout Dr. (westbound), west of 42nd Pl.	Low	Medium	Low	Long-term	\$200,000- \$400,000
9	Charles Armentrout submerged gravel wetland	Charles Armentrout Dr. at 42nd Pl.	Medium	High	High	Short-term	\$350,000 - \$380,000



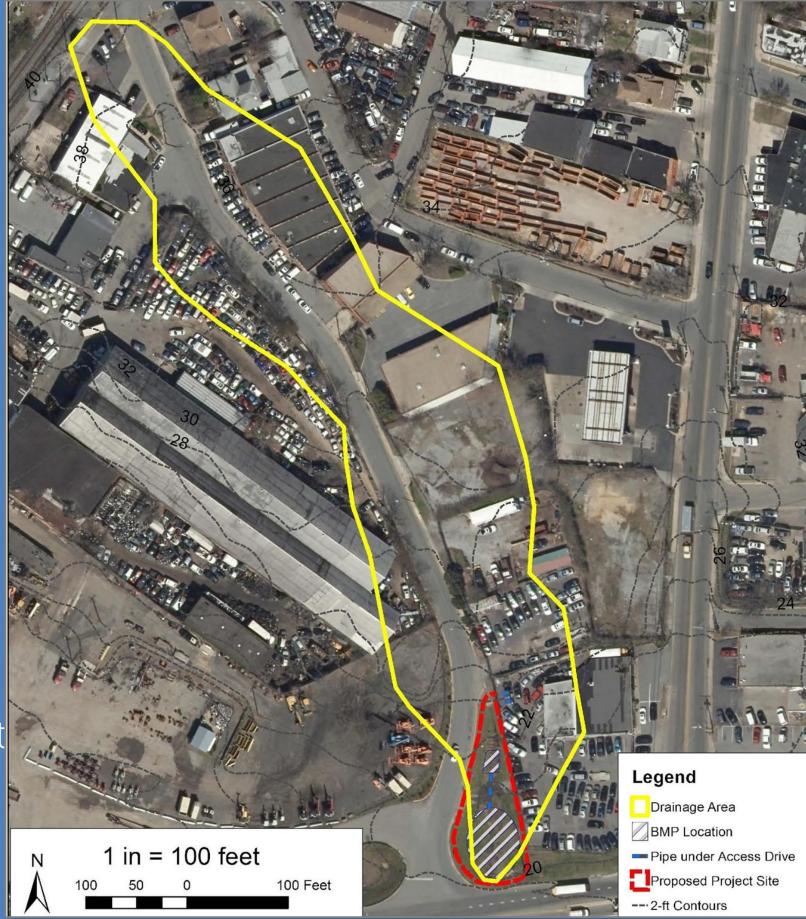


42nd Street - Catchment and Flooding











Project Spotlight:

42nd Street Submerged Gravel Wetland

- Submerged Gravel Wetland (42nd Place, Hyattsville)
- City of Hyattsville Demonstration Site
- Lower Ward 1 Resilient Stormwater Planning Study
- Design Phase









Catherine McCall
Maryland Coastal Management Program
Department of Natural Resources
2024-2026 CSO Chair

catherine.mccall@maryland.gov 443-510-9527