NCER CONFERENCE 2018

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DEVELOPING AND LEVERAGING A
PUBLIC-PRIVATE PARTNERSHIP FOR A
LARGE-SCALE STREAM AND WETLAND
RESTORATION ON FEDERAL PROPERTY

AUGUST 28, 2018

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Overview

- Who is GreenVest & What Do We Do?
- What are Ecological Assets?
- Public Private Partnerships (P3)
- BARC Project Overview & Location
- Project Partners
- Project Objectives
- Pre-Construction Photos
- Construction & Post Construction Photos



Who is GreenVest & What Do We Do?

- Land Based, Multi-disciplinary, Ecological Asset Development Firm
 - Develop & operate Mitigation Banks in NC, NJ & MD
 - Fully Deliver Fixed-Price Compensatory Mitigation
 - Implement Ecological Restoration
 - Implement Ecosystem & Community Resiliency
- We identify & implement Ecological Restoration & Green Infrastructure Projects
 - Assemble mutually beneficial partnerships
 - Match projects with funding
- Scientists, Real Estate, Legal, Finance, Project/Program Management,
 Construction Management & Construction Professionals
- In business over 26 years with offices in Maryland & New Jersey



What are Ecological Assets?

- "Ecological-assets" are natural systems or system components that provide functions and values, which generate direct/indirect benefit to humans:
 - Ecological-assets are monetized by creating ecological uplift, which is approved as a tradable commodity in the form of a salable credit.
- "Ecosystem Services Industry" recognizes classes of "Ecological-assets" that are defined by Federal, State, Regional and Local law and regulation:
 - Wetlands & Streams
 - Forest & FIDS
 - R, T & E Species/Habitat
 - TMDL Reductions (LBS N, P, S)
 - MS4 Compliance (Impervious Acres Treated)

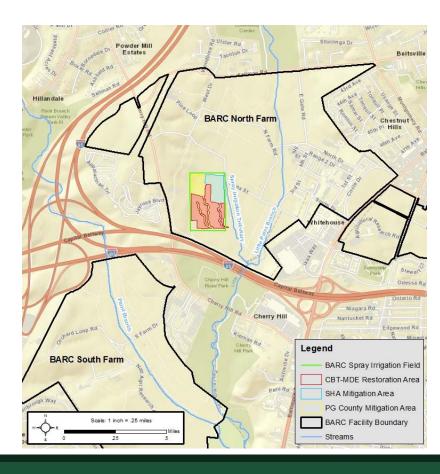


Public Private Partnerships (P3)

- Contractual arrangement between public agencies and private sector entities.
- Skills and assets are shared between the sectors leveraging the relative strengths of each.
- Typically the private sector is harnessed for its efficiency, expediency and innovative approach in this case to develop and delivery ecological assets

BARC Project Overview & Location

- Urban Restoration in the Headwaters of Little Paint Branch, Anacostia River Basin
 - ~3.75 Miles upstream of the Anacostia River
 - ~5.5 Miles from Washington DC
- Located on the USDA Beltsville Agricultural Research Center, North Farm
 - Former Ditched/Drained Spray Irrigation Field
 - Historically Forested Headwater Wetlands, Uplands and Streams
- Forested, Headwater Stream, Wetland, Upland Restoration
 - 19.319 acres of Forested Headwater Wetlands
 - 5.61 acres of Forested Uplands
 - 6,573 If of Stream Restoration





Project Partners













the Environment





STATE HIGHWAY ADMINISTRATION





Project Objectives: Project Overview

USDA ARS

- Meet their EO 13508 Objectives per the Chesapeake Bay TMDL
- Meet USDA programmatic Objectives for Ecosystem Services
- Support Facility-Based Sustainable Land Use Practices
- Support the objectives of the Anacostia River
 Watershed Restoration Partnership

CBT/MDE

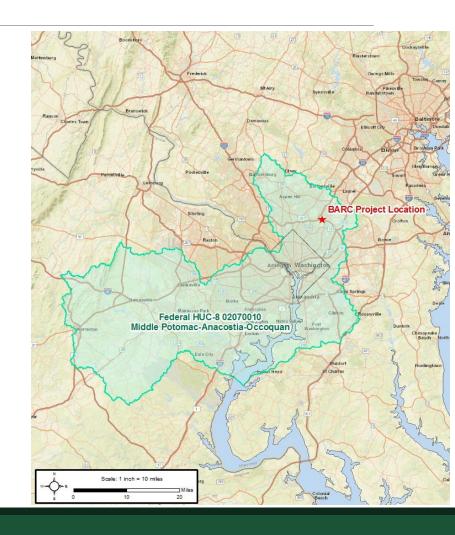
 Deploy ILF funds collected by MDE to Develop Compensatory Mitigation – Middle Potomac HUC 8 Watershed

PG-DPWT

 Provide Advanced Section 404 Stream and Wetland Mitigation for planned capital Improvement projects.

SHA

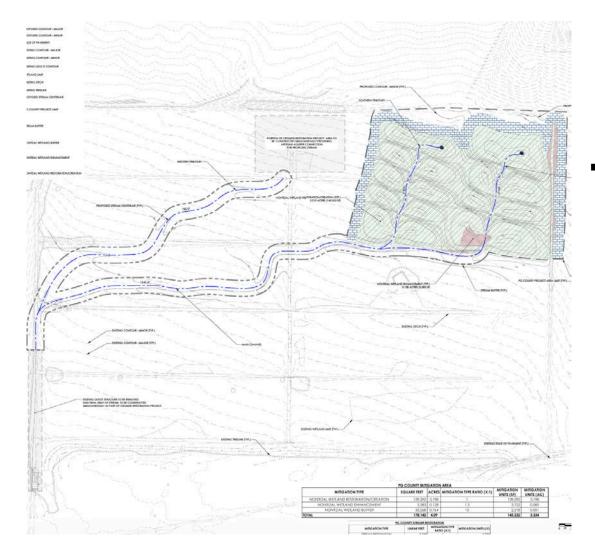
Provide Advanced Section 404 Stream and Wetland
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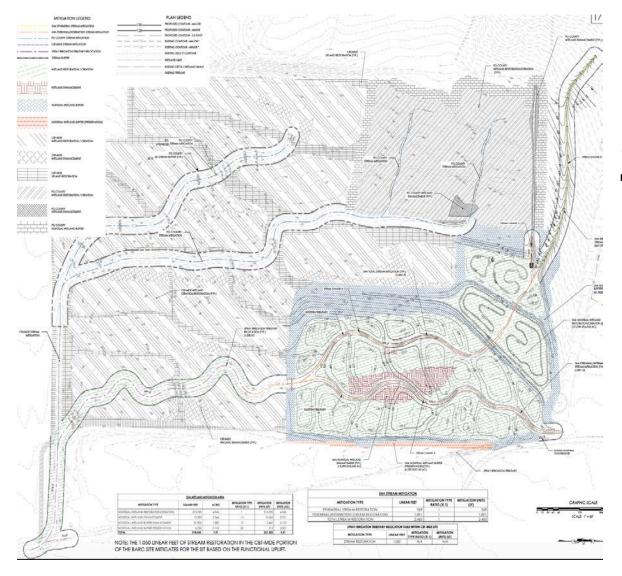
Project Objectives: CBT/MDE

- Chesapeake Bay Trust/Maryland Department of Environment
 - Phase Composition
 - Provide 10.702 acres of wetland restoration, enhancement, creation
 - Provide 2.57 acres of upland forest restoration
 - Provide 330 If of stream restoration
 - Downstream Connection to Spray Irrigation Tributary and Little Paint Branch
 - 10.33 units of In Lieu Fee (ILF) Compensatory Wetland Mitigation



Project Objectives: PGDPWT

- Prince Georges County
 Department of Public Works &
 Transportation
 - Phase Composition
 - Provide 3.326 acres of wetland restoration, enhancement, creation
 - Provide 0.764 acres of upland forest restoration
 - Provide 2,733 If of stream restoration
 - Downstream Connection to Spray Irrigation Tributary and Little Paint Branch
 - Provide Advanced Mitigation for Planned Capital Improvement Projects
 - 2,733 stream mitigation units
 - 3.334 wetland mitigation units



Project Objectives: SHA

- Maryland State Highway
 Administration
 - Phase Composition
 - Provide 5.291 acres of wetland restoration, enhancement, creation
 - Provide 1.880 acres of upland forest restoration
 - Provide 3,510 If of stream restoration
 - Upstream Diversion of Spray Irrigation Tributary & Connection to CBT/MDE Length
 - Provide Advanced
 Mitigation for Planned
 Capital Improvement
 Projects
 - 2,460 stream mitigation units
 - 5.31 wetland mitigation units



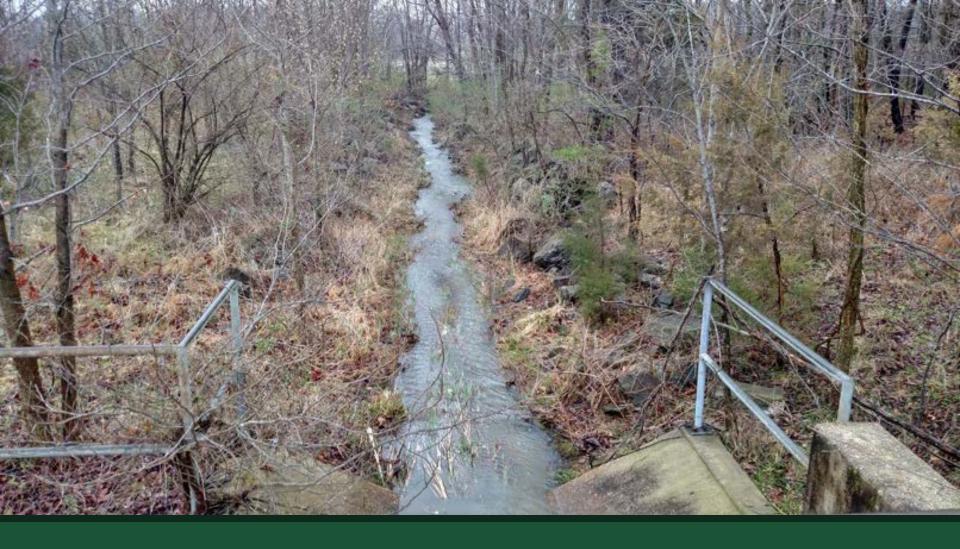
Pre-Construction Condition



Pre-Construction Condition



Pre-Construction Condition



Pre-Construction Condition

Spray Irrigation
Tributary:
During &
PostConstruction









PG County Wetland & Stream:

During & Post-Construction









Spray Irrigation Tributary SHA Stream & Wetland:

During & Post-Construction









PG County CBT/MDE SHA:

Post-Construction









Post-Construction









Thank You

FOR ADDITIONAL INFORMATION:

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