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

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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 lf of Stream Restoration
Project Partners
Project Objectives:

- **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 Mitigation for planned capital Improvement projects.
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 lf 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 lf 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 lf 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 & Post-Construction
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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