Nichol Run
Pond Branch
Watershed Management Plan

Watershed Advisory Group #3
June 30th, 2009

Fairfax County Department of Public Works and Environmental Services
Presented by Watershed Planning & Assessment Branch, Stormwater Management

Welcome

Juliana Birkhoff, Resolve

Today's Meeting Goal

- Learn about the project development process and work completed to date
- Breakout sessions to provide feedback
  - 4 maps of Nichol Run and Pond Branch watersheds with potential projects identified
- Review next steps

Group Expectations

- Show your respect for group members by listening and taking everyone's ideas seriously.
- Expect, respect, and accept different interests, perspectives, and opinions.
- Participate actively-share all relevant information, ideas, and concerns.
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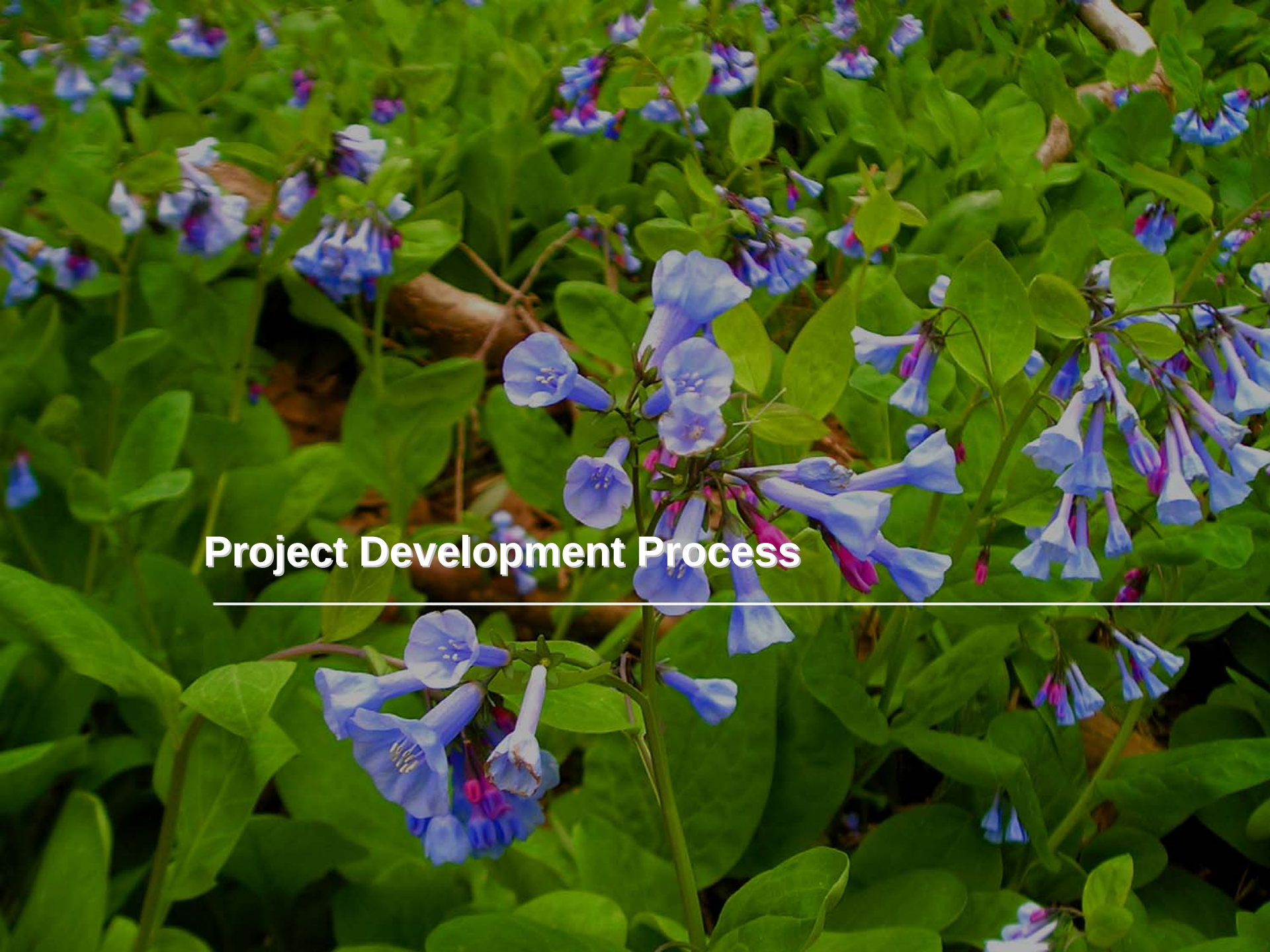
- Keep the discussion focused on the task or issue at hand. You can help keep the discussion focused by only one person talking at a time, and avoiding side conversations and interruptions.
- Be fully present, turn off or put on vibrate your cell phones, Blackberries, and WiFi, and do not multi-task.



Project Development Process

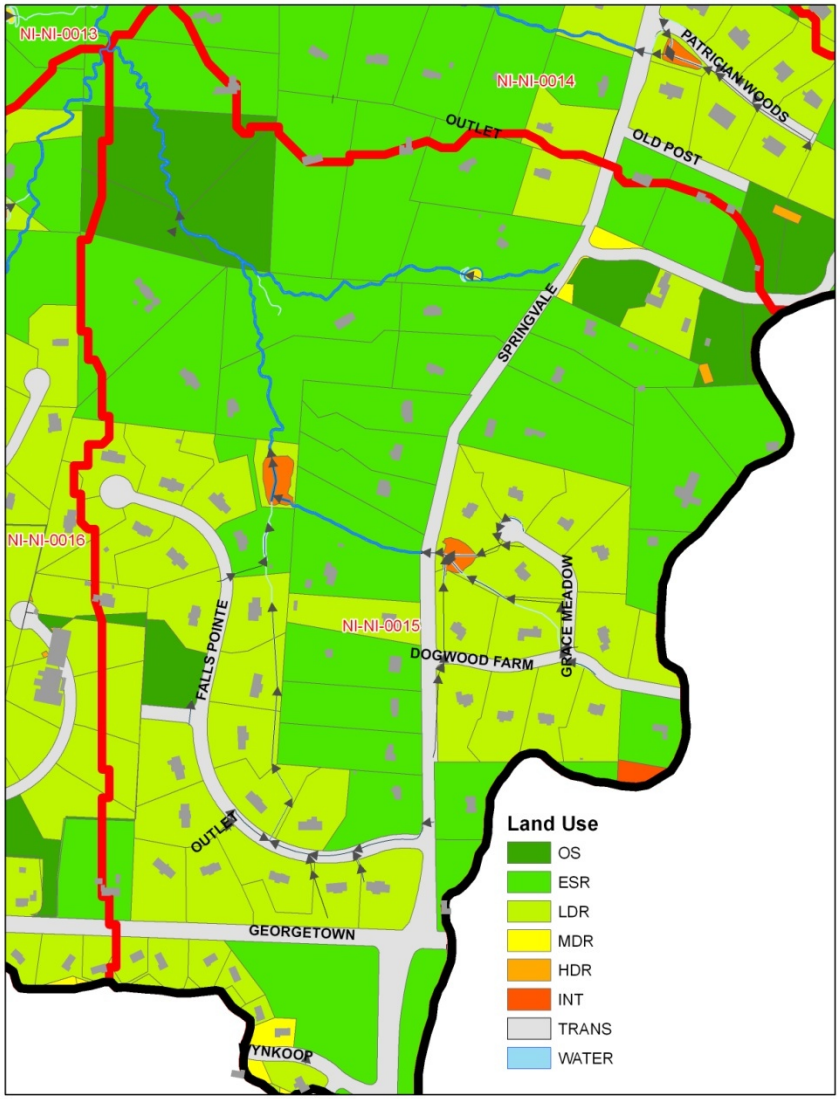
Project Development Process

- Identify Priority Subwatersheds
  - Moderate to Poor Condition
  - Good Condition and At-Risk Areas
- Identify Impairments & Preservation Qualities
- Develop Improvement Goals
  - Restoration Strategies
  - Preservation Strategies
- Identify Projects

Project Types

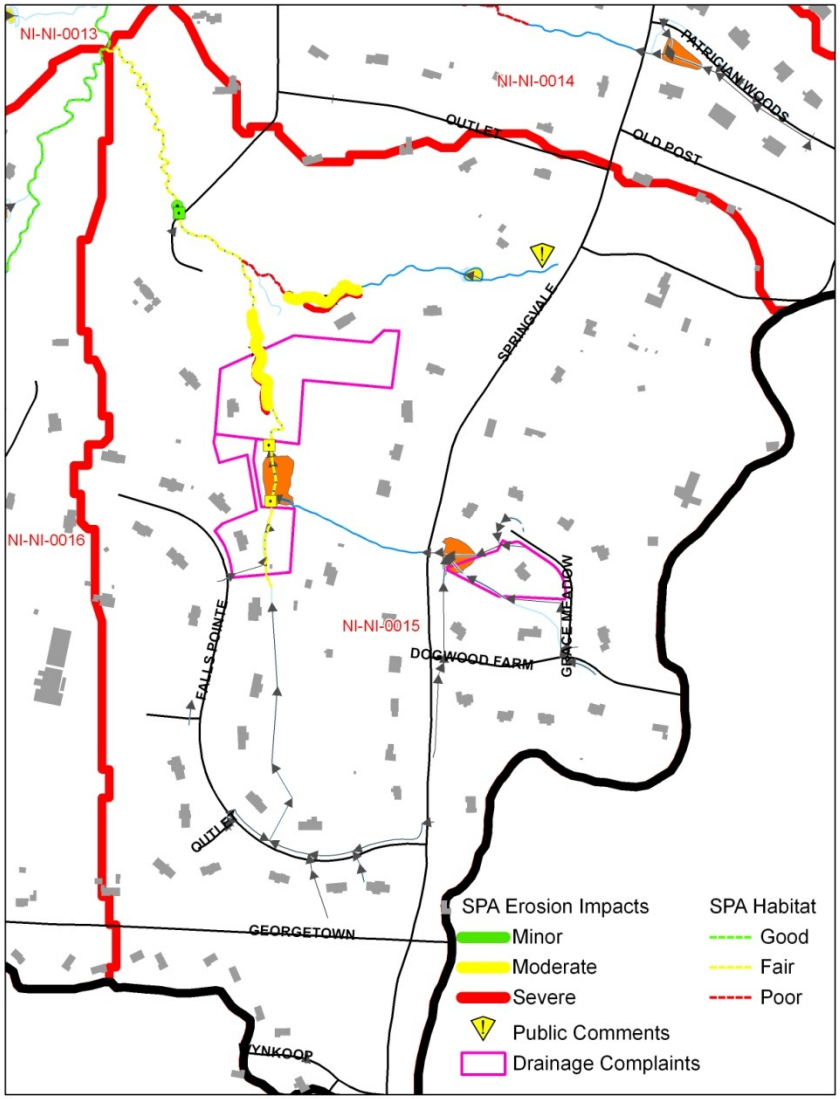
Strategies:	Project Types:
Subwatershed Improvements	Stormwater Pond Retrofits New Stormwater Pond Culvert Retrofits Drainage Improvements Low Impact Development Retrofits
Stream Restoration	Streambank Stabilization Natural Channel Restoration
Road Crossing Improvements	Raising road bed Increasing culvert sizes Replacing damaged culverts Rebuilding bridges with wider span
Non-Structural Measures & Preservation Strategies	Buffer restoration Rain barrel programs Dumpsite/Obstruction removal Community outreach/Public education Conservation acquisition/easements Storm drain stenciling Street sweeping

NI-NI-0015 – Nichol Run Headwaters



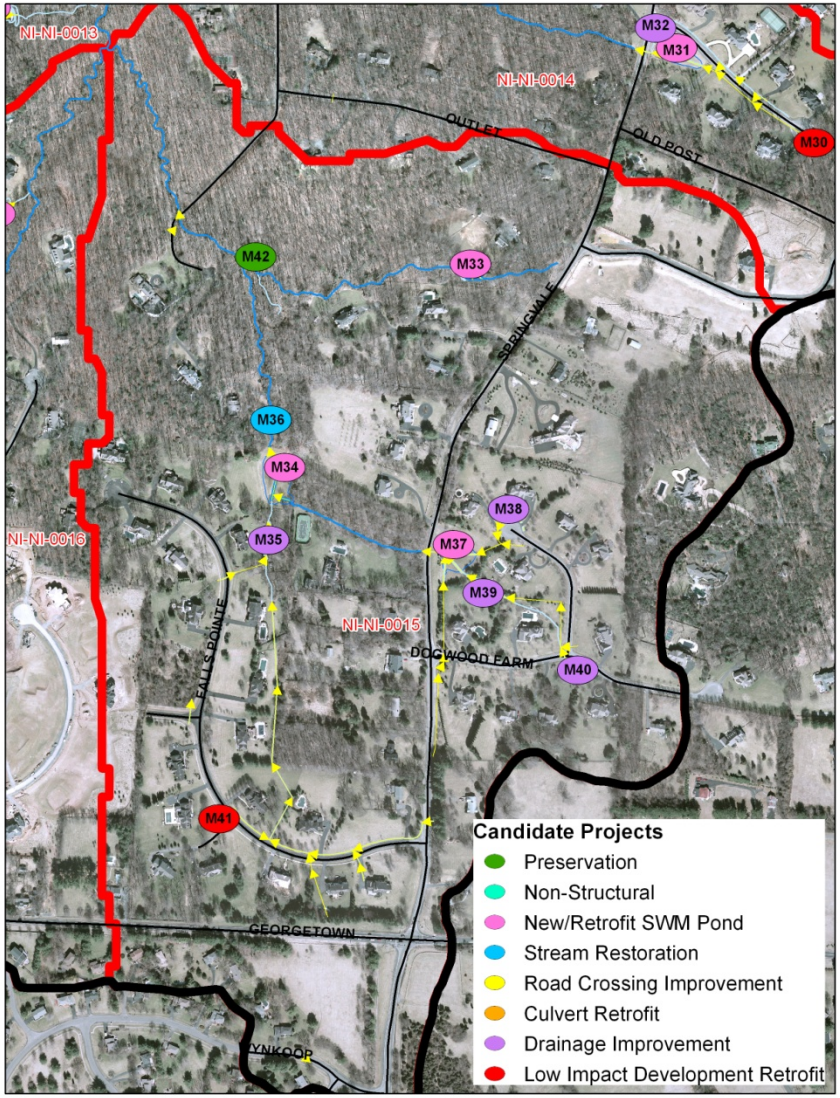
- Selection Criteria
  - SW Ranking
  - SPA Data
  - Public Involvement Comments
  - Drainage Complaints
- Subwatershed Description
  - Primarily ESR & LDR
  - 2 DP, 1 non-SWM pond

NI-NI-0015 – Nichol Run Headwaters



- Impairments & Preservation Qualities
  - Numerous erosion impacts
  - Flooding complaints
  - Poor habitat
- Improvement Goals
  - Reduce stormwater flows
  - Improve habitat and water quality
  - Repair eroded streams
  - Preserve forested riparian buffers

NI-NI-0015 – Nichol Run Headwaters



Project Identification

- Preservation
- Stream Restoration
- Subwatershed Improvement
  - Retrofit existing ponds
  - Drainage Improvements
  - Low Impact Development Retrofits

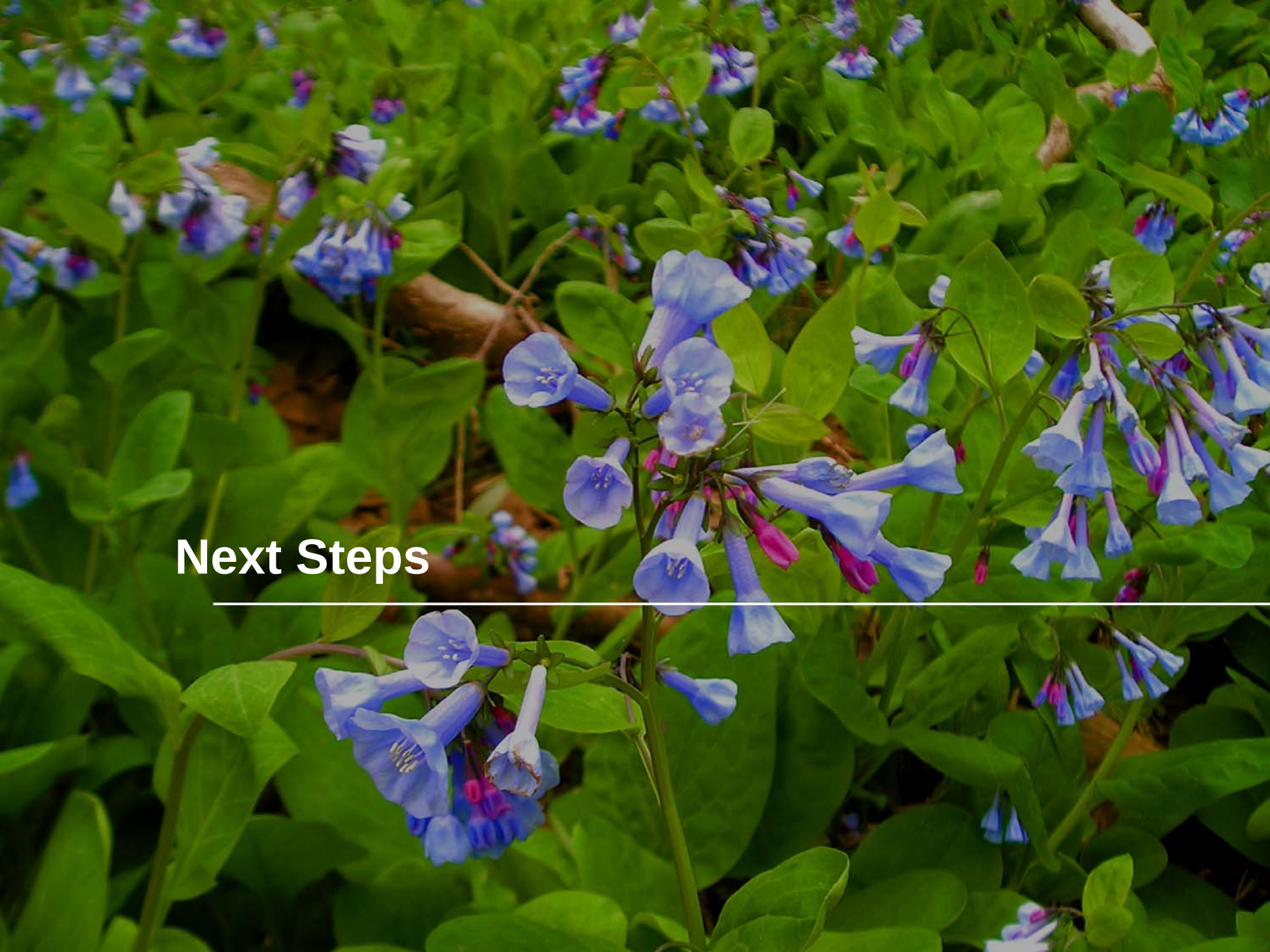
Project Comments: Breakout Groups

Project Spreadsheets & Map Organization

- 4 Maps with project locations
  - Labeled with temporary project ID
  - Color-coded by project type
- Project Spreadsheets organized by subwatershed
  - Subwatershed information at top of each section
  - Followed by projects by temporary project ID
- Some locations with more than one possible project type
  - Assess site constraints
  - Consider public input
  - Compare modeling results

Project Comments

- Is this an appropriate project location? If not, is there an alternate location?
- Do you know of any conflicts that would prohibit certain projects?
- Are there any missing projects?
- Do you and your community support the projects listed and if not, why not?



Next Steps

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- Comments on projects due to F.X. Browne, Inc. by July 20th
- Continue to refine universe of candidate projects
- Next meeting will discuss refined project list
- Homework for WAG -familiar with remainder of projects
- Conduct Field Survey of candidate project sites
  - Assess Site Constraints
  - Recommendations for change
- Prioritize the projects
- Develop concept designs for selected projects and cost estimates
- Develop Draft Plan

Thank you for attending!