Donaldson Run Tributary B

Stream Restoration Project Update
• Project length is 1,355 linear feet
• North Upton St to Tributary A confluence
Project Description

- NC Project - 2004
- Stormwater Master Plan
- Protect existing infrastructure
  - 30” water main
  - Sanitary sewer
  - Trail
- Address active stream erosion
- Control invasive plants
- Replant with locally native plants
- Improve water quality- Bay cleanup
  - Addresses key, regulated pollutants – sediment & nutrients
  - Improves habitat for aquatic life
Progress Since Last Update

• Easement process completed
• Permit submitted to Army Corp of Engineers
• Updated tree inventory
• Minor design updates
• Staging and construction access
• Stormwater outfall renovation

Tributary B’s final bend before joining Tributary A
Design

Natural stream channel design method

• Step pools
• Floodplain connection
• Meander
Site-specific Challenges for Designing this Project

• EXTREMELY tight space to work within
• Steep slopes
• Elevation change
  • Approximately 44’ of change from up to downstream end of project
• Infrastructure
STABILIZATION AND PLANTING FOR EXISTING BAKE SLOPE ABOVE FLOODPLAIN BENCH TE-CUTS TO OCCUR. HYDROSEED IN POOLS AND VEGETATIVE PLUGS AS SPECIFIED IN PLANTING PLANS.

WATER MAIN Location Grassing. See Details Sheet.

TH #10
22+00

APPROX. LOCATION FOR ADDITIONAL PATHWAY DRAINAGE CULVERT.

HORIZONTAL SCALE IN FEET

VERTICAL SCALE IN FEET
Design Component: Improvements & Infrastructure Protection

- 30" water main runs parallel to stream
- Two eroded stormwater outfall channels will be converted to pipes until closer to the stream
- Sanitary main runs parallel to the stream
- The increased stream bed elevation and bank protection will help to decrease potential exposed lines.
**Trees**

- Second tree inventory completed in 2015
- 82 scheduled for removal
- 250 trees and shrubs scheduled for planting
- Tree protection will be provided for remaining trees adjacent to the construction area

**Invasive Plants**

- Ongoing treatment before, during and after project
Herbaceous Plants

<table>
<thead>
<tr>
<th>Location</th>
<th>Year 1</th>
<th>Year 3</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>seed mix</td>
<td>plugs</td>
<td>seed mix</td>
</tr>
<tr>
<td>steep slope</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>stream side/flood plain</td>
<td>x</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>upland</td>
<td>x</td>
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<td>x</td>
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Construction Impacts to Homeowners

• Trail closure along Tributary B
• Anticipated to last 6 months
• Construction staging
  • Material & equipment storage on N. Vermont
Key Project Contacts

• Project Manager – Doug Stephens: dstephens@arlingtonva.us, 703-228-3959
• Outreach – Jen McDonnell: jmcdonnell@arlingtonva.us, 703-228-3042

# Tributary B Restoration Timeline To Date

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 4, 2016</td>
<td>Donaldson Run Civic Association Meeting</td>
</tr>
<tr>
<td>September 2015</td>
<td>Project updated provided in <em>The Current</em></td>
</tr>
</tbody>
</table>
| April 18, 2012 | Donaldson Run Civic Association  
95% Project Design presented          |
| June 2, 2011 | Donaldson Run Advisory Group Meeting  
90% Project Design presented          |
| Feb. 23, 2011 | Donaldson Run Civic Association  
75% Project Design presented          |
| Nov. 20, 2010 | Donaldson Run Community Stream Walk – 60% Design Review                           |
| June 23, 2010 | Community Meeting  
60% Project Design presented          |
| Dec. 2, 2009 | Donaldson Run Civic Association  
30% Project Design presented          |
| Nov. 14, 2009 | Donaldson Run Community Stream Walk                                               |
| Nov. 5, 2009 | Donaldson Run Advisory Group Meeting                                              |
| December 2007 | Neighborhood Conservation (NC) Advisory Committee Meeting  
Funding approval granted               |
| 2005 | Donaldson Run Civic Association  
*Tributary B stream restoration reaffirmed as neighborhood’s first-priority NC project through vote.* |
| September 2004 | Donaldson Run Civic Association  
*Tributary B restoration project designated priority NC Program project through vote.* |
Tentative Schedule

• Complete construction documents
• Companies bid on construction
• Board awards contract
• Construction begins in 2017
• Construction complete
Why Haven’t We Started Yet?

• New MS4 permit, Stormwater Master Plan & Chesapeake Bay TMDL diverted staff resources

• Limited number of County staff

• Easements

Tributary B’s final bend before joining Tributary A