**Monitoring Results: Stream Restoration in the Red Hill Branch Watershed**

**HOWARD COUNTY, MARYLAND**

### PROBLEM

Eroding stream banks in an urban area were allowing excess nutrients and sediment to reach the Chesapeake Bay.

### SOLUTION

The stream was restored in 2011 by stabilizing and re-vegetating 3,165 linear feet of stream banks for $1,048,000 thereby reducing excess nutrients and sediment. Added benefits included improved stream habitat, protected property and infrastructure.

### RESULTS*

Stabilized stream banks are reducing excess nutrients and sediment reaching the Chesapeake Bay.

<table>
<thead>
<tr>
<th>Erosion Reduction (Average Annual % Decrease)</th>
<th>Erosion Reduction (Annual lbs)</th>
<th>Cost per Pound (<strong>Based on an estimated 15yr project life)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspended Sediments 78% ↓</td>
<td>240,063 lbs</td>
<td>$0.29</td>
</tr>
<tr>
<td>Phosphorus 95% ↓</td>
<td>657 lbs</td>
<td>$106</td>
</tr>
<tr>
<td>Nitrogen 97% ↓</td>
<td>658 lbs</td>
<td>$106</td>
</tr>
</tbody>
</table>

**Chesapeake and Atlantic Coastal Bays Trust Fund - Focused funding, measureable results, and maximum restoration benefits**


**Project must be inspected for credit renewal every 5 years**

February, 2018