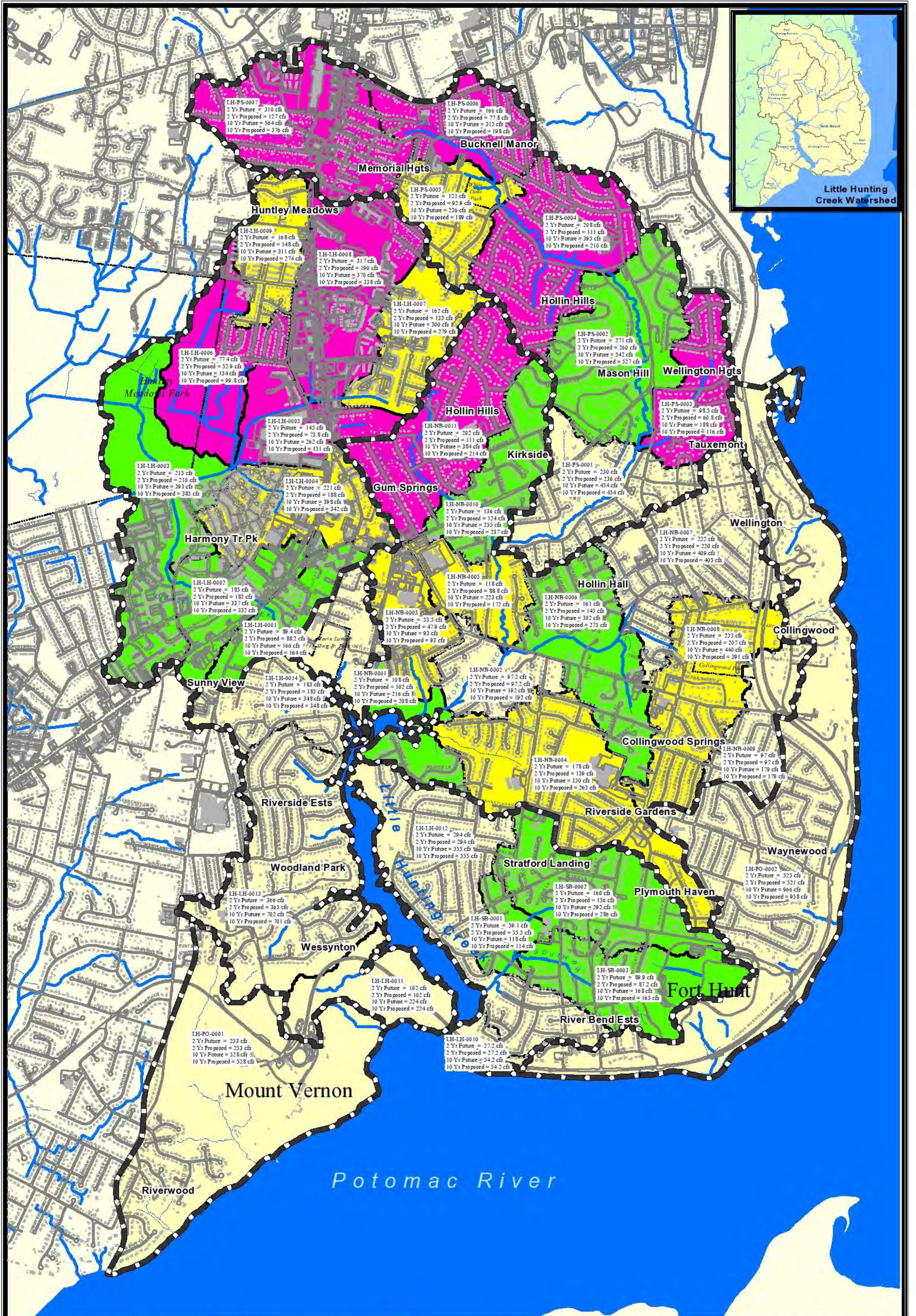


<ul style="list-style-type: none"> Subwatershed Boundary Buildings Roads Creeks/Streams Wetlands 	<ul style="list-style-type: none"> Route 1 Redevelopment BMP Retrofit New BMP Rain Barrel Rain Garden 	<ul style="list-style-type: none"> Investigate Possible Illicit Discharge Assess Stream Sample Water Cleanup Trash/Dumpsite Low Impact Development Strategies 	<ul style="list-style-type: none"> Restore Stream at Outfall Remediate Polluted Sediments Survey Bottom and Dredge Acquire Conservation Easement Place Grouted Riprap 	<ul style="list-style-type: none"> Restore Stream Restore Buffer Reduce Runoff from Road Create/Restore Wetlands 	Proposed Project Areas <ul style="list-style-type: none"> BMP Retrofit Area LID Residential Area Institutional Area New BMP Area
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Map 4.1
Little Hunting Creek Watershed
Proposed Alternatives and Coverage Areas

*Note - Color variation for LID Residential is for map display purposes only and represent the same type of coverage.



LH-PS-0007
2 Yr Future = 310 cfs
2 Yr Proposed = 127 cfs
10 Yr Future = 564 cfs
10 Yr Proposed = 376 cfs

LH-PS-0006
2 Yr Future = 160 cfs
2 Yr Proposed = 77.8 cfs
10 Yr Future = 315 cfs
10 Yr Proposed = 198 cfs

LH-LH-0009
2 Yr Future = 168 cfs
2 Yr Proposed = 148 cfs
10 Yr Future = 311 cfs
10 Yr Proposed = 274 cfs

LH-LH-0008
2 Yr Future = 317 cfs
2 Yr Proposed = 190 cfs
10 Yr Future = 570 cfs
10 Yr Proposed = 338 cfs

LH-LH-0007
2 Yr Future = 162 cfs
2 Yr Proposed = 133 cfs
10 Yr Future = 300 cfs
10 Yr Proposed = 279 cfs

LH-PS-0004
2 Yr Future = 208 cfs
2 Yr Proposed = 111 cfs
10 Yr Future = 393 cfs
10 Yr Proposed = 210 cfs

LH-LH-0006
2 Yr Future = 77.4 cfs
2 Yr Proposed = 52.9 cfs
10 Yr Future = 154 cfs
10 Yr Proposed = 99.8 cfs

LH-LH-0005
2 Yr Future = 145 cfs
2 Yr Proposed = 73.8 cfs
10 Yr Future = 262 cfs
10 Yr Proposed = 151 cfs

LH-NB-0011
2 Yr Future = 202 cfs
2 Yr Proposed = 111 cfs
10 Yr Future = 384 cfs
10 Yr Proposed = 214 cfs

LH-PS-0002
2 Yr Future = 271 cfs
2 Yr Proposed = 260 cfs
10 Yr Future = 542 cfs
10 Yr Proposed = 527 cfs

LH-PS-0003
2 Yr Future = 98.3 cfs
2 Yr Proposed = 60.8 cfs
10 Yr Future = 188 cfs
10 Yr Proposed = 116 cfs

LH-LH-0003
2 Yr Future = 215 cfs
2 Yr Proposed = 210 cfs
10 Yr Future = 393 cfs
10 Yr Proposed = 385 cfs

LH-LH-0004
2 Yr Future = 221 cfs
2 Yr Proposed = 188 cfs
10 Yr Future = 398 cfs
10 Yr Proposed = 342 cfs

LH-NB-0010
2 Yr Future = 136 cfs
2 Yr Proposed = 124 cfs
10 Yr Future = 235 cfs
10 Yr Proposed = 237 cfs

LH-PS-0001
2 Yr Future = 230 cfs
2 Yr Proposed = 230 cfs
10 Yr Future = 454 cfs
10 Yr Proposed = 454 cfs

LH-NR-0007
2 Yr Future = 222 cfs
2 Yr Proposed = 220 cfs
10 Yr Future = 409 cfs
10 Yr Proposed = 405 cfs

LH-LH-0002
2 Yr Future = 185 cfs
2 Yr Proposed = 182 cfs
10 Yr Future = 337 cfs
10 Yr Proposed = 332 cfs

LH-NB-0005
2 Yr Future = 118 cfs
2 Yr Proposed = 88.8 cfs
10 Yr Future = 223 cfs
10 Yr Proposed = 172 cfs

LH-NB-0006
2 Yr Future = 161 cfs
2 Yr Proposed = 145 cfs
10 Yr Future = 302 cfs
10 Yr Proposed = 275 cfs

LH-NB-0008
2 Yr Future = 233 cfs
2 Yr Proposed = 207 cfs
10 Yr Future = 440 cfs
10 Yr Proposed = 391 cfs

LH-LH-0001
2 Yr Future = 89.4 cfs
2 Yr Proposed = 88.2 cfs
10 Yr Future = 166 cfs
10 Yr Proposed = 164 cfs

LH-NB-0003
2 Yr Future = 53.5 cfs
2 Yr Proposed = 47.9 cfs
10 Yr Future = 93 cfs
10 Yr Proposed = 93 cfs

LH-NB-0002
2 Yr Future = 97.2 cfs
2 Yr Proposed = 97.2 cfs
10 Yr Future = 192 cfs
10 Yr Proposed = 192 cfs

LH-NB-0009
2 Yr Future = 97 cfs
2 Yr Proposed = 97 cfs
10 Yr Future = 179 cfs
10 Yr Proposed = 179 cfs

LH-LH-0014
2 Yr Future = 183 cfs
2 Yr Proposed = 183 cfs
10 Yr Future = 348 cfs
10 Yr Proposed = 348 cfs

LH-NB-0001
2 Yr Future = 108 cfs
2 Yr Proposed = 102 cfs
10 Yr Future = 216 cfs
10 Yr Proposed = 208 cfs

LH-NB-0002
2 Yr Future = 97.2 cfs
2 Yr Proposed = 97.2 cfs
10 Yr Future = 192 cfs
10 Yr Proposed = 192 cfs

LH-NB-0004
2 Yr Future = 178 cfs
2 Yr Proposed = 139 cfs
10 Yr Future = 330 cfs
10 Yr Proposed = 263 cfs

LH-NB-0009
2 Yr Future = 97 cfs
2 Yr Proposed = 97 cfs
10 Yr Future = 179 cfs
10 Yr Proposed = 179 cfs

LH-LH-0012
2 Yr Future = 294 cfs
2 Yr Proposed = 294 cfs
10 Yr Future = 555 cfs
10 Yr Proposed = 555 cfs

LH-LH-0011
2 Yr Future = 102 cfs
2 Yr Proposed = 102 cfs
10 Yr Future = 224 cfs
10 Yr Proposed = 224 cfs

LH-SB-0002
2 Yr Future = 160 cfs
2 Yr Proposed = 156 cfs
10 Yr Future = 292 cfs
10 Yr Proposed = 286 cfs

LH-PO-0002
2 Yr Future = 525 cfs
2 Yr Proposed = 521 cfs
10 Yr Future = 966 cfs
10 Yr Proposed = 958 cfs

LH-LH-0013
2 Yr Future = 366 cfs
2 Yr Proposed = 365 cfs
10 Yr Future = 702 cfs
10 Yr Proposed = 701 cfs

LH-LH-0011
2 Yr Future = 102 cfs
2 Yr Proposed = 102 cfs
10 Yr Future = 224 cfs
10 Yr Proposed = 224 cfs

LH-SB-0001
2 Yr Future = 59.1 cfs
2 Yr Proposed = 55.5 cfs
10 Yr Future = 118 cfs
10 Yr Proposed = 114 cfs

LH-SB-0003
2 Yr Future = 89.9 cfs
2 Yr Proposed = 87.2 cfs
10 Yr Future = 168 cfs
10 Yr Proposed = 163 cfs

LH-PO-0002
2 Yr Future = 525 cfs
2 Yr Proposed = 521 cfs
10 Yr Future = 966 cfs
10 Yr Proposed = 958 cfs

LH-PO-0001
2 Yr Future = 253 cfs
2 Yr Proposed = 253 cfs
10 Yr Future = 528 cfs
10 Yr Proposed = 528 cfs

LH-LH-0010
2 Yr Future = 27.2 cfs
2 Yr Proposed = 27.2 cfs
10 Yr Future = 54.2 cfs
10 Yr Proposed = 54.2 cfs

LH-LH-0010
2 Yr Future = 27.2 cfs
2 Yr Proposed = 27.2 cfs
10 Yr Future = 54.2 cfs
10 Yr Proposed = 54.2 cfs

LH-LH-0010
2 Yr Future = 27.2 cfs
2 Yr Proposed = 27.2 cfs
10 Yr Future = 54.2 cfs
10 Yr Proposed = 54.2 cfs

LH-LH-0010
2 Yr Future = 27.2 cfs
2 Yr Proposed = 27.2 cfs
10 Yr Future = 54.2 cfs
10 Yr Proposed = 54.2 cfs



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by Woodport LLP


Subwatershed Boundary
Buildings
Roads







Water
Creeks/Streams

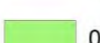

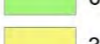



Decrease in Peak Flow Future vs. Proposed
No Change
1% - 15% Change
16% - 30% Change
31% - 60% Change

Map 4.2
Little Hunting Creek Watershed
Peak Flow Model Results
Future vs. Future Proposed




 0 250 500 1,000 Feet
 Prepared for Fairfax County
 by Woolpert LLP

-  Subwatershed Boundary
-  Buildings
-  Roads
-  Water
-  Creeks/Streams
-  Erosion

Stream Velocities	
Future	Future Proposed
 0 fps - 3 fps - Good	 0 fps - 3 fps - Good
 3 fps - 5 fps - Fair	 3 fps - 5 fps - Fair
 5 fps and Greater - Poor	 5 fps and Greater - Poor

Map 4.3
Little Hunting Creek Watershed
Stream Velocities Model Results
Future vs. Future Proposed



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 by Woolpert 117

Subwatershed Boundary
 Buildings
 Roads
 Water
 Creeks/Streams

Stream Velocity Percent Reduction
 21% - 25%
 16% - 20%
 11% - 15%
 6% - 10%
 0% - 5%

Average Future Proposed Channel Velocity (fps) is shown for stream segment.
 Example = 3.7 fps

Note: Not all stream segments were modelled.

Map 4.4
Little Hunting Creek Watershed
Stream Velocities Percent Reduction
Between Future Proposed and Future