

5.4 Long Branch Central

Conditions in the Long Branch Central WMA were highly variable. A significant number of subwatersheds in the WMA were in good condition primarily due to the influence of undeveloped areas of Lake Accotink, Rutherford, Olde Forge and Long Branch Parks that have good forest and wetland coverage. However, in terms of overall ranking, Long Branch Central had seven of the highest priority subwatersheds in the watershed, generally influenced by the amount of residential land use runoff that is not controlled by stormwater management facilities.

5.4.1 Structural Projects

5.4.1.1 10-Year Projects

AC9144 New Stormwater Pond

This proposed facility between Danbury Forest Drive and Thames Street would be a new extended detention dry pond which would provide water quality and water quantity treatment at the outfall of the existing storm drainage system. The new riser structure would discharge to the existing culvert under Danbury Forest Drive.

AC9147 New Stormwater Pond

A new stormwater pond is proposed in the Kings Park Shopping Center to provide storage and capture runoff. The existing storm drains would be used for inflow and the new riser would connect to the existing storm drain under Braddock Road.

AC9148 New Stormwater Pond

An extended detention pond is proposed in the Long Branch Stream Valley Park adjacent to the stormwater outfall to provide water quality and water volume storage for the runoff from the Springbrook Forest neighborhood. The new pond would involve excavation, construction of an embankment, installation of a riser structure, and internal pond features including a plungepool, a micropool and a meandering low-flow channel.

AC9208 Stream Restoration Completed

This stream restoration project is located behind King David Boulevard. Field crews noted isolated pockets of moderate to severe bank erosion on outside meanders, some of which are encroaching on private property. Restoration efforts would include reducing the channel dimensions, installing grade controls and stabilization techniques.

AC9209 Stream Restoration

This project in Long Branch Stream Valley Park involves the restoration of moderate to severe bank erosion within the stream channel and at a storm drain outfall. As part of this restoration, the storm drain outfall will be corrected, the stream banks will be stabilized with armor-in-place techniques and the stream bed elevation will be raised to encourage fish passage.

AC9305 Area-Wide drainage improvements

Area-wide drainage improvements are recommended for the Canterbury Woods neighborhood, a medium-density residential area, by implementing a hybrid project that includes installing tree box filters and rain gardens.

AC9306 Area-Wide Drainage Improvements

There are no existing stormwater management facilities in the subwatershed. An area-wide drainage improvement is recommended to treat the runoff from the medium-density residential area in the Willow Woods neighborhood. Rain gardens and tree box filters would be installed at storm drain inlets.

AC9307 Area-Wide Drainage Improvements

This project recommends treating the runoff for the Woodland Forest neighborhood, downstream of dry pond 1022DP, by implementing tree box filters and rain gardens to improve water quality.

AC9308 Area-Wide Drainage Improvements

Area-wide drainage improvements are recommended to treat the runoff from the medium-density residential area in the Canterbury Woods and Long Branch neighborhoods by implementing a hybrid project that includes installing tree box filters and rain gardens.

AC9309 Area-Wide Drainage Improvements

There are no existing stormwater management facilities in the Springbrook Forest, Willow Woods and Woods of Ilda neighborhoods so area-wide drainage improvements are recommended to treat the runoff through installing tree box filters and rain gardens at stormwater inlets.

AC9310 Area-Wide Drainage Improvements

The medium density residential neighborhoods of Springbrook Forest and Rutherford were developed with no existing stormwater management facilities. The project is distributed throughout most of the subwatershed and involves treating runoff before it reaches the storm drain system by installing tree box filters at curb inlets and rain gardens adjacent to yard inlets.

AC9405 Culvert Retrofit

A retrofit is proposed for a road culvert under Twinbrook Road in Old Forge Park to add a weir wall control structure and stabilized micropool to regulate discharge of the smaller, high frequency storm events.

AC9406 Culvert Retrofit

This project is located in Long Branch Park on the upstream side of Laurel Street between Lenox Drive and Whitacre Road. This culvert retrofit would add a weir wall control structure on the upstream side of the culvert and creating a micropool followed by a pool with wetland plantings.

AC9529 New BMP/LID

A parking lot retrofit is recommended at the Canterbury Woods Elementary School by adding tree box filters at storm drain inlets to provide water quality control.

5.4.1.2 25-Year Projects

AC9145 New Stormwater Pond

A new pond is proposed to treat the runoff from the Canterbury Woods Swim Club on Blackpool Drive. This project would create a shallow wetland area to improve the water quality of the runoff.

AC9146 Stormwater Pond Retrofit

This site is an existing deep, dry pond (0943DP) with a small footprint behind Althea Drive in the Woodland Forest neighborhood. The proposed project is to retrofit the pond by adding a micropool, expanding the footprint and modifying the outlet to obtain channel erosion control through volume storage.

AC9149 Stormwater Pond Retrofit

This project proposes to retrofit an existing wet pond (WP0238) between Braddock Road and Dunleigh Drive that treats runoff from the Dunleigh neighborhood. Recommendations include retrofitting the existing pond by modifying the outlet structure, clearing out the inlet, adding an aquatic shelf and clearing trees from the embankment.

AC9150 Stormwater Pond Retrofit

This is a proposed retrofit of an existing dry pond (DP0362) behind Fern Park Drive in Burke Professional Center to treat the runoff from Dunleigh neighborhood. The retrofit would provide water quality improvements to the receiving waters.

AC9151 Stormwater Pond Retrofit

This project proposed the retrofit of two dry ponds (0207DP and 0055DP) located near the Long Branch Swim and Racquet Club to reduce downstream channel erosion. Recommendations include installing a forebay and micropool, adding new control structures and replacing the concrete channel with a wet swale. The downstream channels should also be stabilized through this project.

AC9152 Stormwater Pond Retrofit

This project proposes to retrofit an existing dry pond (0054DP) behind Tartan View Drive in the Chestnut Hills West neighborhood for water quality by creating forebays or micropools, lengthening the flow path and modifying the outlet structure.

AC9153 Stormwater Pond Retrofit

This project proposes to convert the existing downstream wet pond (WP0179) behind Wrought Iron Court that treats runoff from the Lee Meadows neighborhood to a large wetland facility. Proposed recommendations include excavating the pond to increase storage, adding pools and modifying the outlet.

AC9154 Stormwater Pond Retrofit

This is a retrofit of the existing wet pond (WP0178) that treats runoff from the Lee Meadows neighborhood. Field assessment indicated erosion in the low flow channel, sediment buildup in

pond bottom and a clogged outlet. Proposed recommendations include modifying the outlet structure and adding forebays at the inlet.

AC9155 New Stormwater Pond

A large area of the Sweet Briar Forest residential neighborhood is draining to a concrete channel behind Olley Lane. The project proposes to convert this channel to a linear wetland to provide water quality benefits.

AC9156 Stormwater Pond Retrofit

This project is proposed to retrofit existing dry pond DP0123 which treats the runoff from the Korean Presbyterian Church by adding a forebay for additional water quality volume storage, modifying the outlet and lengthening the flow path.

AC9157 Stormwater Pond Retrofit

An existing dry pond (0197DP) behind Ceralene Court in George Mason Park that treats the runoff from a residential area is proposed to be converted to a wet pond by removing concrete channels, installing a sediment forebay and modifying the outlet to provide extended detention.

AC9158 Stormwater Pond Retrofit

The existing dry pond (0057DP) treating runoff from a section of the Somerset South neighborhood seems to be functioning as a shallow wetland at the lower end of pond. The proposed project recommendations include installing a plunge pool and micropool, installing a new riser and creating a meandering low flow channel.

AC9404 Culvert Retrofit

A road culvert retrofit is proposed under Red Fox Drive to provide storage upstream of the embankment and control the discharge of the small, high frequency events to provide water quality treatment and help reduce downstream channel erosion.

AC9528 New BMP/LID

This project consists of two separate sites to treat parking lot runoff through bioretention or rain gardens. The first site is Holy Spirit Catholic Church, which also presents the opportunity to disconnect rooftop drains. Bioretention is also proposed to treat the upper parking lot runoff at the second site, Canterbury Woods Swim Club, on Blackpool Drive.

AC9530 New BMP/LID

This project consists of two separate sites to treat stormwater runoff through bioretention or rain gardens. The first site is the downslope edge of the parking lot at Longbranch Swim and Racquet Club on Bradfield Drive. A bioretention filter is also proposed to capture rooftop and driveway runoff at Saint Stephen's United Methodist Church.

AC9531 New BMP/LID

This project recommends installation of a bioretention filter to capture and treat parking lot runoff from the Rutherford Area Swim Club parking lot.

AC9532 New BMP/LID

This is a proposed bioretention filter at the outlet behind Bayard Road in Rutherford Park to capture runoff from the Rutherford neighborhood.

AC9533 New BMP/LID

This is a potential site for water quality swales and detention storage behind Marley Road at Rutherford Park.

5.4.2 Non Structural Projects

AC9900 Community Outreach/Public Education – Stenciling

This community-wide project involves marking the storm drains within the Red Fox Forest, Stone Haven, Woodland Forest, Canterbury Woods, Olley Lane, Somerset and Oak Hill community. The stencil marking can educate the public, reduce dumping and reduce the amount of litter and pollutants that enter the storm drain system.

AC9904 Rain Barrel Programs – Rain Barrels

Rain barrels provide the first step for residents to disconnect their downspout from draining to an impervious surface. This project would be a community-wide outreach program to encourage their use. Several neighborhoods, Somerset South, Olley Lane, and Stone Haven, Red Fox Forest and Canterbury Woods, were identified during the upland reconnaissance with roof drainage that would be suitable for this approach.

AC9907 Community Outreach/Public Education – Lawn Care

This project would provide community-wide education and guidance to homeowners on lawn care practices that would potentially reduce pollutants in stormwater runoff. The upland reconnaissance identified several neighborhoods, Canterbury Woods, Long Branch, Ashford, Bradfield, Olde Forge, Surrey Square, Braddock Green and Somerset South, that could be targeted with this effort.

AC9908 Inspection/Enforcement Enhancement Project – Dumpster Maintenance

One source of litter and pollutants in stormwater runoff is poorly maintained dumpsters and other waste management practices. This project is a community-wide enforcement and outreach approach to properties where problems were identified during the upland reconnaissance. Dumpsters in this WMA were flagged as hotspots with evidence of having no cover.

AC9909 Rain Barrel Programs – Downspout Disconnect

The upland reconnaissance identified several sites where downspouts were directly connected to storm drains. A watershed-wide outreach program could be beneficial in reducing runoff volume or peak flows by turning downspouts away from driveways and impervious surfaces and letting the water flow onto lawns. In this WMA, they included the area around Chestnut Knolls, Somerset, Old Creek Estates, Rutherford, Sussex, Springbrook Forest, and Willow Woods.

AC9910 Street Sweeping Program

The Somerset, Old Creek Estates, Rutherford, Sussex and Springbrook Forest neighborhoods were found to have trash, litter or organic debris in the curb and gutter which could negatively

impact the local waterways through introduction into the stream system via the storm drain inlets. This project consists of developing or extending a street sweeping program to remove potential pollutants from the street before they can wash into a storm drain or a stream.

AC9913 Dumpsite/Obstruction Removal - Dumpsite/Obstruction

One site was identified with a significant obstruction or dumpsite during the stream assessment. This project would be a community-wide program to remove the debris blocking fish passage.

AC9935 Community Outreach/Public Education – Tree Planting

One community, Holly Park, was assessed during the upland reconnaissance and identified for a watershed-wide outreach program to encourage tree planting and urban reforestation.

Table 5-4: Long Branch Central Projects

Structural Projects						
Project #	Project Type	Subshed	Location	Watershed Benefit	Land Owner	Phase
AC9144	New Stormwater Pond	AC-LB-0000	Lake Accotink Park	Water Quality and Quantity	County - FCPA	1 - 10
AC9147	New Stormwater Pond	AC-LB-0015	Kings Park Shopping Ctr	Water Quality and Quantity	Private - Commercial	1 - 10
AC9148	New Stormwater Pond	AC-LB-0015	Long Branch Stream Valley Park	Water Quality and Quantity	County - FCPA	1 - 10
AC9208	Stream Restoration	AC-LB-0025	Longbranch Falls Park	Water Quality	County - FCPA	1 - 10
AC9209	Stream Restoration	AC-LB-0030	Long Branch Stream Valley Park	Water Quality	County - FCPA	1 - 10
AC9305	Area-Wide Drainage Improvements	AC-LB-0005	Canterbury Woods neighborhood	Water Quality	Private - Residential	1 - 10
AC9306	Area-Wide Drainage Improvements	AC-LB-0010	Willow Woods neighborhood	Water Quality	Private - Residential	1 - 10
AC9307	Area-Wide Drainage Improvements	AC-LB-0015	Woodland Forest neighborhood	Water Quality	Private - Residential	1 - 10
AC9308	Area-Wide Drainage Improvements	AC-LB-0025	Canterbury Woods and Long Branch neighborhoods	Water Quality	Private - Residential	1 - 10
AC9309	Area-Wide Drainage Improvements	AC-LB-0030	Springbrook Forest, Willow Woods and Woods of Ilda neighborhoods	Water Quality	Private	1 - 10
AC9310	Area-Wide Drainage Improvements	AC-LB-0035	Springbrook Forest and Rutherford neighborhoods	Water Quality	Private	1 - 10
AC9405	Culvert Retrofit	AC-LB-0060	Old Forge Park	Water Quality	State - VDOT	1 - 10
AC9406	Culvert Retrofit	AC-LB-0075	Long Branch Park	Water Quality	State - VDOT	1 - 10
AC9529	BMP/LID	AC-LB-0015	Canterbury Woods Elementary School	Water Quality	County - FCPS	1 - 10
AC9145	New Stormwater Pond	AC-LB-0005	Canterbury Woods Swim Club	Water Quality	Private	11 - 25
AC9146	Stormwater Pond Retrofit	AC-LB-0005	Woodland Forest neighborhood	Water Quality	Private - Residential	11 - 25
AC9149	Stormwater Pond Retrofit	AC-LB-0020	Dunleigh neighborhood	Water Quality and Quantity	Private - Residential	11 - 25
AC9150	Stormwater Pond Retrofit	AC-LB-0020	Burke Professional Center	Water Quality	Private - Commercial	11 - 25

Structural Projects						
Project #	Project Type	Subshed	Location	Watershed Benefit	Land Owner	Phase
AC9151	Stormwater Pond Retrofit	AC-LB-0025	Long Branch Swim and Racquet Club	Water Quality	Private	11 - 25
AC9152	Stormwater Pond Retrofit	AC-LB-0040	Chestnut Hills West neighborhood	Water Quality and Quantity	Private - Residential	11 - 25
AC9153	Stormwater Pond Retrofit	AC-LB-0040	Behind Wrought Iron Ct	Water Quality and Quantity	Private - Residential	11 - 25
AC9154	Stormwater Pond Retrofit	AC-LB-0040	Lee Meadows neighborhood	Water Quality and Quantity	Private - Residential	11 - 25
AC9155	New Stormwater Pond	AC-LB-0045	Sweet Briar Forest neighborhood	Water Quality	Private - Residential	11 - 25
AC9156	Stormwater Pond Retrofit	AC-LB-0060	Korean Presbyterian Church	Water Quality and Quantity	Private - Church	11 - 25
AC9157	Stormwater Pond Retrofit	AC-LB-0060	George Mason Park	Water Quality and Quantity	County - FCPA	11 - 25
AC9158	Stormwater Pond Retrofit	AC-LB-0065	Somerset South neighborhood	Water Quality and Quantity	Private - Residential	11 - 25
AC9404	Culvert Retrofit	AC-LB-0020	Red Fox Dr	Water Quality and Quantity	State - VDOT	11 - 25
AC9528	BMP/LID	AC-LB-0005	Holy Spirit Catholic Church and Canterbury Woods Swim Club	Water Quality	Private	11 - 25
AC9530	BMP/LID	AC-LB-0025	Longbranch Swim and Racquet Club Parking Lot and St. Stephens United Methodist Church	Water Quality	Private	11 - 25
AC9531	BMP/LID	AC-LB-0035	Rutherford Area Swim Club	Water Quality	Private	11 - 25
AC9532	BMP/LID	AC-LB-0045	Rutherford Park	Water Quality	County - FCPA	11 - 25
AC9533	BMP/LID	AC-LB-0055	Rutherford Park	Water Quality	County - FCPA	11 - 25
Non-Structural Projects						
Project #	Project Type	Subshed	Location	Watershed Benefit	Land Owner	
AC9900	Community Outreach/Public Education	Multiple	Multiple	Water Quality	Multiple	
AC9904	Rain Barrels	Multiple	Multiple	Water Quality and Quantity	Multiple	

Non-Structural Projects					
Project #	Project Type	Subshed	Location	Watershed Benefit	Land Owner
AC9907	Community Outreach/Public Education	Multiple	Multiple	Water Quality	Multiple
AC9908	Inspection/Enforcement Enhancement Project	Multiple	Multiple	Water Quality	Multiple
AC9909	Rain Barrels	Multiple	Multiple	Water Quality and Quantity	Multiple
AC9910	Street Sweeping Program	Multiple	Multiple	Water Quality	Multiple
AC9913	Dumpsite/Obstruction Removal	Multiple	Multiple	Water Quality	Multiple
AC9935	Community Outreach/Public Education	Multiple	Multiple	Water Quality and Quantity	Multiple

