

## Rappahannock-Rapidan Region Phase III WIP - Urban Sector Programmatic Actions

PROGRAMMATIC ACTIONS TO IMPLEMENT SELECTED BMPS	QUANTITATIVE MEASUREMENT	FUNDING AND CAPACITY NEEDS	LOCALLY IDENTIFIED CO-BENEFITS	GAPS IN STATUTORY/REGULATORY AUTHORITY
<b>GENERAL</b>				
Develop a Watershed Management Plan for the Upper Rappahannock River (RRRC/SWCD)	Develop plan by 2025	Grant Funding and/or dedicated PDC Environmental staff funding from state	Local water quality improvement, reduced flooding, habitat/fisheries improvement, drinking water protection, economic development, air quality improvement	
Implement recommendations of Healthy Watershed Forest Initiative when completed	Implement by 2025	unknown	Economic development, local water quality improvement, CO2 reduction/air quality improvement, habitat/fisheries improvement	Support for initiatives In the General Assembly as they arise
Seek dedicated PDC Environmental staff funding from the state to assist in WIP implementation and provide local/regional environmental planning assistance.	Implement by 2020	Dedicated funding similar to the Rural Transportation Program, which has a 20% PDC match requirement	Local water quality improvement, reduced flooding, habitat/fisheries improvement, drinking water protection, economic development, air quality improvement	
Improve water monitoring capabilities along major rivers in the region (including additional monitoring stations and improved data tracking capabilities) in partnership with VDEM and RRBC (2018 Regional Hazard Mitigation Plan strategy)	Implement by 2025	State and local match funding to complete phase 2	Local water quality improvement, reduced flooding, habitat/fisheries improvement, recreation	
<b>STORMWATER MANAGEMENT/ EROSION &amp; SEDIMENT CONTROL</b>				
Implement project to install bio-swales and other LID practices at community meeting locations along with development of targeted messaging and outreach	Implement project by 2025	Grant Funding	Local water quality improvement, habitat/fisheries improvement, reduced flooding	
Expand VCAP cost-share program and other urban cost share funds	Implement by 2020	Additional VCAP funds and adequate SWCD staffing and technical assistance	Local water quality improvement, habitat/fisheries improvement, reduced flooding	
Expand Friends of the Rappahannock Rainscaping program to install more small-scale stormwater practices	Implement by 2020	Grant Funding	Local water quality improvement, habitat/fisheries improvement, reduced flooding	
Develop a dedicated urban BMP grant or cost-share program targeting unregulated/non-MS4 land, to provide incentives for implementing, reporting, and verifying BMPs (state/federal).	Implement by 2020	Grant/cost-share funding	Local water quality improvement, reduced flooding, habitat/fisheries improvement, drinking water protection, economic development	
Incorporate relevant stormwater cost-share and educational program information in floodplain public outreach called for in the 2018 Regional Hazard Mitigation Plan	Implement by 2025	Adequate local staffing	Local water quality improvement, reduced flooding	
Implement education program for dirt/gravel road design, construction and maintenance	Implement by 2025	Grant funding, local staff	Local water quality improvement	
Identify opportunities for retrofitting storm water BMPs and implement as part of a larger watershed plan	Implement by 2025	Grant funding, local staff and technical assistance	Local water quality improvement, increased property value, economic development, reduced flooding	
Track local street sweeping miles and expand programs where feasible	Implement program by 2025	Tracking forms	Local water quality improvement, fisheries improvement, beautification/economic development	
Begin tracking local storm drain cleaning (municipal and private)	Implement tracking program by 2025	Adequate local staffing, tracking forms	Local water quality improvement, fisheries improvement	Reporting requirement for private entities to track storm drain cleaning
Encourage residents to keep storm drains clear of debris during storms through education and outreach (2018 Regional Hazard Mitigation Plan strategy)	Implement by 2025	Adequate local staffing, grant funding	Local water quality improvement, reduced flooding	
Substitute porous surfaces/pavement for impervious pavement when appropriate to reduce flooding caused by runoff (2018 Regional Hazard Mitigation Plan strategy)	Implement by 2025	Adequate local staffing	Local water quality improvement, reduced flooding	
Ensure VDOT projects that reduce impervious surface are being tracked as such in the Bay Model	Implement by 2020			Internal VDOT policy change or directive to ensure VDOT projects that reduce impervious surface are being tracked as such in the Bay Model
Provide adequate enforcement support for local erosion and sediment control programs (DEQ)	Implement by 2025	Increased level of DEQ staffing	Local water quality improvement, habitat/fisheries improvement, reduced flooding	
Finish process to combine state erosion and sediment control and VSMP programs	Implement by 2025		Local program improvements, less redundancy, less expense for local government and private construction sector	
Reinstate annual regional ESC/stormwater workshops for locality staff led by regional DEQ staff to provide updates, answer questions and facilitate discussion	Implement by 2020	Adequate DEQ staffing	Local program improvements, local water quality improvement, habitat/fisheries improvement	
Seek clarification of agricultural and forestry exemptions in state erosion and sediment control and stormwater law to eliminate loopholes.	Implement by 2020		Local program improvements, local water quality improvement, habitat/fisheries improvement	Clarify agricultural and forestry exemptions in state erosion and sediment control and stormwater law to eliminate loopholes

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<b>NUTRIENT MANAGEMENT</b>				
Expand Cooperative Extension's Green Grass Program to develop more urban nutrient management plans on residential sites	Implement by 2020	Additional VCE Funding or Grant Funding	Local water quality improvement, habitat/fisheries improvement, drinking water protection	
Implement a no fertilizer pledge campaign	Implement campaign by 2025	Grant Funding	Local water quality improvement, habitat/fisheries improvement	
<b>LAND CONSERVATION</b>				
Continue to fund/implement Fauquier county's PDR program	Continue program through 2025	Adequate local staffing and state funds	Local water quality improvement, ag/forestry land preservation, tourism	
Expand and encourage use of non-profits' and localities' conservation easements programs	Implement by 2025	Grant funding, local staff	Local water quality improvement, land conservation/preservation, economic development, habitat/fisheries improvement	
Seek credit in the Bay Watershed Model for developable land put under permanent conservation easement	Implement by 2020		Local water quality improvement, land preservation, habitat/fisheries improvement	Provide credit in the Bay Model for developable land put under permanent conservation easement
Renew local Ag/forestral Districts	Implement by 2025		Local water quality improvement, ag/forestry land conservation, economic development, habitat improvement	
<b>URBAN FORESTRY</b>				
Implementation of DOF phone app to track/verify citizen tree planting	Implement program by 2025	Local staffing/funding to verify planting as required	Local water quality improvement, CO2 reduction/air quality improvement, habitat/fisheries improvement	
Initiate dialogue with VDOT to allow plantings in right-of-way	Implement by 2025		Local water quality improvement, habitat improvement (including pollinators)	
Implement educational programs to encourage tree planting and proper forestry practices and other sustainable conservation landscaping practices	Implement by 2025		Local water quality improvement, habitat/fisheries improvement, reduced flooding	
Implement and track tree seedling sales from government and non-profit entities	Implement by 2025	Grant funding for materials and local staff	Local water quality improvement, habitat improvement	
Raise awareness about land use taxation credits to increase forestry	Implement by 2025	Grant funding for materials and local staff	Local water quality improvement, economic development, habitat improvement, CO2 reduction/air quality improvement	
Expand DOF cost share programs funding for urban forests	Implement by 2020	Adequate DOF staffing and funding	Local water quality improvement, CO2 reduction/air quality improvement, beautification/economic development	
Track trees installed per local ordinances	Implement by 2025	Adequate local staffing	Local water quality improvement, CO2 reduction/air quality improvement	
<b>URBAN STREAM RESTORATION/RIPARIAN BUFFERS</b>				
Identify opportunities for stream restoration and bank stabilization, and implement as part of a larger watershed plan	Implement by 2025	Grant funding, local staff and technical assistance	Local water quality improvement, habitat/fisheries improvement, reduced flooding	
Establish and manage riparian buffers along rivers and streams to minimize erosion and flooding (2018 Regional Hazard Mitigation Plan strategy)	Implement by 2025	Adequate local staffing, grant funding	Local water quality improvement, reduced flooding, habitat/fisheries improvement	
<b>SEPTIC</b>				
Track pump outs for septic systems (VDH)	Implement tracking program by 2021	Adequate VDH Staffing	Local water quality improvement, increased property value, economic development, ground water protection	Reporting requirement for haulers in areas outside of the Chesapeake Bay Act
Implement an educational program asking haulers to report pump outs (VDH)	Implement educational program by 2025	Adequate VDH Staffing	Local water quality improvement, increased property value, economic development, ground water protection	
Work with VDH to implement an educational program for residential septic pump-outs	Implement by 2025	Adequate local and VDH staffing	Local water quality improvement, increased property value, economic development, ground water protection	
Seek more local control over approval of alternative septic systems	Implement by 2025		Local water quality improvement	Change in statutory authority