

Washington County, MD 2018 - 2019 Programmatic Two-Year Milestones
January 2018 - December 2019

| Target Date | Milestone | Deliverable | Lead Agency | Comments |
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| Urban Stormwater Sector | | | | |
| 2018-2019 | Washington County will be finalizing and implementing a new county wide Clean County initiative that will actively address state and federal load allocation targets while working to improve overall appearances and address non-point source (NPS) pollution within local communities. | A robust and effective Clean County program that works closely within our communities towards improving local water quality, with a focus on community engagement and enhancement. | Washington County | County officials and local partners are working vigorously to develop and fine tune a comprehensive Clean County initiative. Many of the milestones for Washington County included in this document will be moved under this initiative and will be accomplished through the roll out and implementation of this program. As the program is implemented, adaptive management strategies will guide the fine tuning of the programs by County staff to maximize efficiencies and work to reduce any redundancies within the services or programs the County provides. Clean County initiative will rely on the approval by the Board of County Commissioners. |

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| 2018-2019 | Continue to manage and develop programs that focus on improving local water quality. Each program is meant to provide county residents with information or promote the good work being done throughout the county towards the Watershed Implementation Plan (WIP) and other restoration targets. | Progress towards Bay TMDL targets across all county Land-River segments. | Washington County | Ongoing - WIP implementation and the milestones provided below are contingent upon uncertain funding streams and approval by the Board of County Commissioners or other elected body (town council, mayor, etc.). |
| 2018-2019 | Continue coordinating with all necessary internal departments and vendors in the planning, evaluation, and development of a County Street Sweeping program. | A fully staffed and supported Street Sweeper program working continuously throughout county communities. | Washington County | Ongoing - In order to meet requirements for specific BMPs, organizational goals, community needs, and ensure fiscal responsibility, the program will only be funded and implemented once a full evaluation of the program effectiveness and necessary equipment is completed. |
| 2018-2019 | Purchase street sweeper and deploy street sweeper and employee in urbanized areas enabling us to qualify for the Bay Program approved Street Sweeping BMPs. | Through this program, the County will be able to claim Street Sweeping BMP credit for acreage or tonnage reported. | Washington County | The program will ensure the continuous sweeping of County owned roads and properties that will lead to less trash, sediment, and nutrient loading in our local streams while improving and enhancing the physical appearances of our community. Purchase is contingent upon funding and approval by Board of County Commissioners. |

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| 2018-2019 | Continue reviewing project sites for potential stormwater retrofits and bio-filter projects along roadways that could be included in County CIP budget or that we could seek grant funding for. | The increase of retrofit projects through CIP funding of retrofit related projects. | Washington County | Ongoing review process that is time intensive. |
| 2018-2019 | Analyze the potential of placing qualifying County owned properties under an Urban Nutrient Management Plan. | A decision on the potential. | Washington County | Ongoing - Conduct analysis of cost effectiveness, community impact, and the eligible acreage. |
| 2018-2019 | Analyze the potential of a residential Urban Nutrient Management Plan program. The program will need to have the ability to voluntarily enroll private landowners and verify their property acreage that they would voluntarily limit their yard fertilizer applications or refrain from using lawn fertilizers on their property, all together. | A decision on the potential. | Washington County | An analysis of the cost effectiveness, the eligible acreage, and community input would all have to be completed. These typically smaller residential properties, in sum, could have a significant impact on the County's nutrient loading in the Urban Sector. |
| 2018-2019 | Develop plans and seek grant funding for a Rain Garden/Rain Barrel Program that can install, report, track, and verify the small water quality or water detention solutions at county owned facilities. | The installation of several demonstration practices at County owned facilities. | Washington County | The County owns many small buildings that could have their impervious surface treated by small water quality projects. |

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| 2018-2019 | Explore the possibility of developing a program to promote, enable, and verify Rooftop Disconnections from a stormwater system and the diversion of runoff to a pervious surface. | A Rooftop Disconnect database that can be used to meet water quality targets. | Washington County | There are associated pollution reduction values for each disconnect. The state has issued Impervious Surface Reduction Equivalency values for treating rooftop water on-site by disconnecting the downspouts and allowing for detention or infiltration. |
| 2018-2019 | Continue to apply grant and CIP funds within HUC8 watersheds with approved watershed restoration plans (WRPs) to enable the mapping and evaluation of surface stormwater infrastructure throughout our urbanized areas in these impaired watersheds. | A GIS database of stormwater assets that aligns with MDE's current stormwater reporting database requirements to ensure that all required data points are reported to the state and the county receives the associated load reductions. | Washington County | As urban stormwater features are mapped, they are assessed and inspected. These field reports and other stormwater feature information that are stored in the GIS database are being used to inform County restoration and conservation efforts, structural maintenance schedules, CIP priorities, and other planning goals. This program is contingent upon federal funding from our partnership with the Army Corps of Engineers (USACE) and upon funding and approval by Board of County Commissioners. |
| 2018-2019 | Continue underground infrastructure and drainage area mapping for stormwater conveyance systems previously built, but not included in the GIS and therefore not in our online stormwater feature database. | Geographically referenced digital copies of existing paper versions of site designs and other engineering and permitting documents. | Washington County | Ongoing efforts to add older stormwater plans into the existing database. |

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| 2018-2019 | Evaluation of stormwater infrastructure financial needs and work towards acquiring necessary resources. | Make budgetary and program recommendations to elected officials. | Washington County | Ongoing – County staff continue to gather and develop data that will allow for the refinement of budget items. |
| 2018-2019 | Examine the existing stormwater management and watershed services programs and identify ways to efficiently expand the reach of our programs so as to ensure appropriate resource allocation to better serve the community and meet water quality goals. | Reducing redundancies and simplifying programs will allow us to more efficiently serve the community. | Washington County | Ongoing - A comprehensive look at existing resource allocation will likely help ensure WIP targets and MS4 compliance are being worked towards in the most effective way possible. |
| 2018-2019 | Finalize our ArcGIS Online and mobile device compatible tool that's capable of reporting, tracking, and verifying BMPs and non-structural practices like a public outreach event. The tool will be rolled out to WIP partners and other stakeholders during the preparation for the Phase III WIP. This online portal will streamline the reporting process for county WIP stakeholders and allow for easy management of the BMP data or other reported activity that works towards water quality goals. | An online portal and mobile "app" that allows for real-time database updates for implementation of water quality projects or other reportable practices. | Washington County | We are utilizing ArcGIS Online, ESRI's <i>Collector</i> app, and the stormwater database template provided by MDE to develop a reporting tool using the same data collection attributes required for MS4 reporting. This reporting tool will allow county stakeholders to receive associated reduction credits for the work they've done and could drastically increase the amount of implementation reporting. Adoption of this tool will empower county residents and can provide a sense of ownership in the implementation of water quality programs. Full program roll out and promotion is contingent upon approval by Board of County Commissioners. |

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| 2018-2019 | Work to enable and support official stakeholders with their adoption, inclusion, or use of ArcGIS or other digital mapping software into their organization for managing, mapping, and reporting spatial information that is relevant to their organization (i.e. Health Department and septic data, spatial distribution of wells, etc.). | The continued support of partner agencies with integrating ArcGIS into their organization through training assistance and data sharing. | Washington County | Adoption of ArcGIS can provide a very powerful tool to an organization; however it can be too expensive and complicated for some stakeholders. Providing decision makers with a spatial component to an existing dataset allows for more informed decisions and resource allocation. All assistance is contingent upon approval by Board of County Commissioners. |
| 2018-2019 | Reassess County education and outreach materials, handouts, and presentations to ensure an informed marketing approach is used to ensure continuity throughout WIP and other water quality education and outreach efforts. | All new education and outreach materials will have been developed by or with the guidance of the County's Public Relations team to ensure message and collateral consistency. | Washington County | Applying professional marketing skills to public education and outreach messaging or materials is the most effective and efficient use of limited funding. Details such as collateral size uniformity matter for a display board. |
| 2018-2019 | Investigate the effectiveness of innovative approaches to public engagement. An example would be a public recognition plan for business and residents taking a "Green" approach. | A determination on the effectiveness of innovative methods and program recommendations. | Washington County | Ongoing - Providing recognition and support to businesses or residents by different ways can have a positive impact on how people think about that behavior. |

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| 2018-2019 | Continue to build out our Community Engagement and Outreach presence by attending more public events. | An increased number of community engagement dates attended throughout the years. | Washington County | Ongoing - Hagerstown Community College (HCC) STEM Festival, Home Show, Boonsboro Green Fest, as well as other Education and Outreach events. This allows us to continue to be involved in the community and promote water quality goals. |
| 2018-2019 | Expand our existing methods for gaining citizen input/feedback on water quality programs (i.e. targeted emails, online/paper surveys, public meetings, community group engagement, etc.). | We will have programs that are reaching more county residents and we will have involved a more diverse group in the efficacy evaluation of our programs. | Washington County | We will be using our stormwater and watershed services GIS based BMP tracking, reporting, verification tool to report the details of each public event. These details (date, number of citizens served, number of materials handed out, etc.) will be stored in our database. |
| 2018-2019 | Broaden public awareness and understanding of stormwater issues and watershed restoration efforts through enhancing our organizational website to include educational resources regarding WIP Implementation and other water quality programs (i.e. MS4, IDDE, local TMDL implementation, etc.). | An easy to use organizational web site with a focus on education and outreach, community water quality goals, and restoration efforts. | Washington County | The Division of Environmental Management website will be updated to include educational resources, local resources on TMDL goals, and NPDES Permit requirements. |

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| 2018-2019 | Expand on the work that has already been done by our local watershed advocate non-profit groups (Antietam Conococheague Watershed Alliance (ACWA), Beaver Creek Watershed Association) and continue to assist where possible. | Membership in the groups increased and the number of watershed restoration events have increased. | Washington County | The County has partnered with local watershed groups, scouting organizations, and other non-profits in the past and will continue to empower and enable local volunteer groups. |
| 2018-2019 | Continue to examine water quality programs and find opportunities for volunteer engagement by local volunteer groups such as Girl Scouts, senior citizen groups, Master Gardeners, etc. | An active volunteer group list. | Washington County | There is a need to gather information of the existing volunteer groups that the County has partnered with and leverage their volunteer pool in pursuit of local water quality goals. |
| 2018-2019 | Build on previous successes of our public/private partnerships in pursuit of TMDL goals. | Established partnerships that enable implementation of restoration programs in our community through funding assistance and industry expertise. | Washington County | Ongoing - Washington County has experience building stakeholder relationships around the shared goal of clean streams. These partnerships enable the County to leverage funding and implementation of WIP and local TMDL restoration programs across the county. |

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| 2018-2019 | Examine potential changes to the County Phase II NPDES program (which could become effective with the new permit), with a focus on how the new permit could limit or mandate implementation options for location or treatment opportunities, thereby requiring programmatic shifts in priorities and funding. Impact evaluation requires the development of GIS data that in the past has been limited or unavailable at county scale. | Data sets needed for analysis and improved internal NPDES coordination. | Washington County | Ongoing - The scope and requirements of our new Phase II NPDES Permit are not known at the time of these WIP milestones. It is reasonable to believe that the new permit will cause some agencies to devote more of their resources in more urbanized Land-River Segments than rural ones. This has forced us to develop accurate GIS data (i.e. Impervious Surface layer) and explore innovative approaches to the mandates. Data and methods have been created and refined over the years to allow County staff to be able to determine the scale and financial impact of some potential proposed MS4 requirements, such as a 20% Impervious Surface reduction and/or treatment. |
| 2018 | Continue to engage with the state in defining the County Phase II regulated area. | MDE is expected to release a Final Determination of the Phase II Permit for Washington County in March, 2018. | Washington County | Ongoing - There have been meetings with the state and we are continuing to engage with them and work towards agreement. The MS4 area will exclude all areas which fall in an incorporated municipal area or are under a stormwater system that is owned or operated by a separate entity. |

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| 2018-2019 | Work with partners to continue developing WRPs for HUC8 watersheds with and without local TMDLs to continue working towards the delisting of the streams on the State's 303(d) list. | EPA approved WRPs for all HUC8 watersheds with state issued TMDLs. | Washington County | Ongoing - The WRPs enable County staff to apply for grants from MDEs 319 funding. Plan creation requires staff to engage in streambank and riparian habitat assessments, point and non-point pollution surveys, stormwater infrastructure inspections, private landowner outreach, and the use of gathered data in further developing our water quality projects reporting database. |
| 2018-2019 | Work with state and federal partners in the review and approval of the WRP for the Conococheague Creek. | An EPA approved WRP. | Washington County | Ongoing – At the time of these milestones, the WRP is being reviewed by MDE before being sent to EPA for review/approval. |
| 2018-2019 | Investigate and assess new stream restoration projects on a continuous basis and seek funding for design and/or construction as the projects are developed. | A GIS based stream restoration project database where sites are evaluated and ranked using a consistent assessment method, such as the Bank Erosion Hazard Index (BEHI). | Washington County | Ongoing - Landowner willingness and factors related to projects on private land (such as easements or landowner agreements) will limit implementation. Sites on public property will be assessed, prioritized, and projects developed, if necessary. |
| 2018-2019 | Continue evaluating public and private properties for potential tree planting projects, with a focus on riparian buffer plantings, through field work and GIS analysis. | A GIS based projects list ranked by several factors. | Washington County | Ongoing - Plantings that are planted to forest density receive the most reduction credits, but there are other stormwater goal reduction credits, though minimal, for individually planted trees. |

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| 2018-2019 | Explore the feasibility of creating a grant funded tree planting program that works towards increasing urban and other tree canopy, especially in riparian zones on residential properties. | A determination on the feasibility. | Washington County | A public/private partnership with a local nursery would be optimal to build on community engagement efforts and tree delivery. Existing reforestation resources, such as DNR's Backyard Buffer Program, could be further promoted to county residents in a targeted way through different means. A yearly targeted postcard mailing campaign to residents with water resources on their property with information about resources for trees would be one example. |
| 2018-2019 | Begin an ongoing internship program within the Division of Environmental Management that will focus primarily on stormwater and watershed services programs. Interns will assist County staff in the collection and management of spatial data and participate in outreach events. | An increase in progress towards the County's water quality targets. | Washington County | Utilizing interns from the surrounding colleges, vocational training programs, and career schools will allow full-time staff to maintain and perhaps increase the speed of program implementation or project completion. |
| 2018-2019 | Expand our cooperation and outreach within the Board of Education (BOE). Enable and empower teachers and administration by assisting with environmental education whenever possible. | Ongoing, long term water quality educational projects that contribute to the existing curriculum. | Washington County | For years we have built relationships within the BOE and have been invited to schools across the county to give talks on environmental science and watershed restoration. |

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| 2018-2019 | Continue to participate at public outreach events (Home Builders Show, Washington County Ag Expo, and Boonsboro Green Fest). | Raising public awareness and engaging county residents. | Washington County SCD | This is in addition to the daily interactions by SCD staff with communities within the urban and agricultural sectors. |
| 2018-2019 | Participate with Washington County Home Builders Association, Land Use Council on a quarterly basis. | Providing latest regulatory information and to work cooperatively with homebuilders and engineering firms to foster compliance with and understanding of environmental regulations. | Washington County SCD | Interacting regularly with the regulated community improves communication and improves compliance and allows the SCD to better serve the community as we work to implement the WIP. |
| 2018-2019 | Continue working with partners at the County, the local municipalities, and National Park Service (NPS) to install informational kiosks at points along the Antietam Creek as part of the Phase I Information and Education efforts as explained in the Antietam Creek WRP. | Install at least two kiosks. | Washington County SCD | The Antietam Creek WRP has a goal of ten kiosks throughout the watershed, to provide information related to the Antietam Creek watershed, water quality, stream bank erosion, and local history. Five kiosks have been installed currently through 2017. |
| 2018-2019 | Continue working in the urban sector by acting as the review and approval authority for Soil Erosion and Sediment Control Plans. Continue Pre-Construction Meetings, Interim Inspections and Final Site Closeout Inspections under an MOU with the Maryland Department of the Environment. | Review and approval of plans within the county. Conduct Pre-Construction Meetings, Interim Inspections, and Final Site Closeout Inspections. | Washington County SCD | The cooperative approach utilized by the SCD has led to better compliance and environmental outcomes. |

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| 2018-2019 | Annual clean-up of stream in Shafer Park with various organizations, including Boonsboro Recycling Task Force and Boy Scout Troops. | Litter removal and a cleaner local environment. | Town of Boonsboro | Completed and Ongoing. |
| 2018-2019 | Continue identifying stream buffer/ planting areas on Town Farm Property, King Open Space, and Shafer Park. Implementation contingent on funding availability and Mayor and Council approval. | Increased overall tree population and continued "Greening" of the community. | Town of Boonsboro | Completed and Ongoing. |
| 2018-2019 | Work on stormwater program and implementation plan. Implementation contingent on funding availability and mayor and council approval. | Reduced pollution loading to town streams and other water resources. | Town of Boonsboro | Completed and Ongoing. |
| 2018-2019 | Continue to enhance and maintain the existing urban tree canopy program, as funding allows. | Increased canopy over primarily urbanized areas. | Town of Boonsboro | Completed and Ongoing. |
| 2018-2019 | Evaluate the potential financial impact that the NPDES permit could have on existing water quality programs and other services in town. | Analysis and recommendations provided to decision makers. | Town of Boonsboro | Being a historical town with relatively limited opportunities for retrofits or expansive solutions to water quality goals, town staff will work to develop recommendations and evaluate the existing level of progress towards NPDES targets. |
| 2018-2019 | Maintain existing stenciled inlets and expand program for stenciling the stormwater inlets | Increased number of stormwater inlets stenciled or otherwise identified as potential sources of runoff pollution. | Town of Boonsboro | Completed and Ongoing. The town has previously added brass pins to the tops of stormwater inlets indicating their role in runoff pollution. |

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| 2018-2019 | Work with local WIP team on development of educational outreach programs and materials on WIP related issues. | Increased WIP implementation. | Town of Boonsboro | Completed and Ongoing. |
| 2018-2019 | Continue to conduct reforestation efforts in Shafer Park for Fletcher's Grove and other locations. Implementation contingent on funding availability and mayor and council approval. | Increased forest canopy. | Town of Boonsboro | Completed and Ongoing. |
| 2018-2019 | Continue our evaluation of stormwater infrastructure financial needs and work towards acquiring necessary resources. | Make recommendations for mayor and council approval. | Town of Boonsboro | Ongoing - We are continuing to gather and develop data that will allow for the refinement of program costs. |
| 2018-2019 | Continue Annual Green Fest event to promote water quality and encourage environmentally friendly actions. | Annual environmentally friendly event that draws thousands of visitors and vendors that may be the largest environmental awareness event in the area. | Town of Boonsboro | Ongoing. |
| 2018-2019 | Continue to grow and enhance the stream cleanup program and continue coordinating and supporting Conococheague Creek and Potomac River cleanups. | Reduced amounts of trash pollution in local streams and river. | Town of Williamsport | Ongoing. Cleanups are completed annually and in partnership with Springfield Middle School and Antietam Conococheague Watershed Alliance (ACWA), the Leo Club, and the Williamsport Green Team. |

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| 2018-2019 | Continue working within the community to enhance the town's education and outreach efforts through environmental events throughout the year and at annual events such as Canal Pride Days. | Increased public awareness. | Town of Williamsport | Ongoing. |
| 2018-2019 | Continue working with DNR Forestry Service and the Arbor Day Foundation and others to improve and continue working toward the town's tree canopy goals. | An increase in the population and species diversity of trees throughout the town. | Town of Williamsport | Williamsport is an officially designated <i>Tree City</i> by the Arbor Day Foundation. |
| 2018-2019 | Continue working within the community to build and leverage public private partnerships in pursuit of water quality goals. | Implementation of water quality projects through a public/private partnership. | Town of Williamsport | The town has a track record of successfully working with partners in the private sector. |
| 2018-2019 | Evaluate the potential fiscal and programmatic impact of the NPDES Permit release. | Analysis and recommendations provided to decision makers. | Town of Williamsport | The NPDES Permit could force the town to adopt or modify existing services to town residents. |
| 2018-2019 | Continue to plan and manage the implementation of grant work for the "Greening" of the main street programs which include rain barrel installation, replacement of sidewalk with pervious concrete and planting of trees. | Overall increase in the effectiveness of the towns Greening efforts. | Town of Williamsport | Ongoing. |
| 2018-2019 | Examine the expansion of our storm drain cleaning program that currently operates on a monthly basis. | A combined weight of removed material to report for sediment reductions. | Town of Williamsport | Ongoing. |

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| 2018-2019 | Examine the potential for expanding our water way cleanups and coordinate with local partners in the reporting, tracking, and verification of each event and other relevant information (i.e. tons of trash removed, volunteer attendance, etc.). | A community that is more empowered and connected to their local water resources. | Town of Williamsport | Ongoing - Conococheague Creek and Potomac River cleanups completed annually with Springfield Middle School and ACWA as partners. |
| 2018-2019 | Education of citizens on the WIP and how they can help reduce the nutrient and sediment load of the town. | Enhanced outreach. | Town of Williamsport | Ongoing. |
| 2018-2019 | Expand the existing program for stenciling the stormwater inlets to include an assessment for each stormwater feature that is identified. | A heightened public awareness campaign and an increased amount of stormwater infrastructure that is assessed and mapped. | Town of Williamsport | Ongoing - While working with County staff and local volunteers, the town will stencil, map, and assess all of the town's stormwater inlets. The town is split by two HUC8 watersheds and the mapping and stenciling of the town's infrastructure will identify the inlets accurately. |
| 2018-2019 | Continue cleaning the Town Pond area on an annual basis. | Reduced litter. | Town of Sharpsburg | Ongoing. |
| 2018-2019 | Explore program establishing a rain garden within the Town limits, along with the assistance of the Boy Scouts and Girl Scouts. | Enhanced outreach. | Town of Sharpsburg | Ongoing - This is contingent upon Mayor and Council approval and financial feasibility. |

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| 2018-2019 | Potential of establishing a rain barrel program for the residents within the Town limits, with the assistance of the Boy Scouts and Girl Scouts and local town residents. | Potential to reduce runoff. | Town of Sharpsburg | Ongoing - This is contingent upon Mayor and Council approval and financial feasibility. |
| 2018-2019 | Potentially allow volunteers to establish a program for stenciling the storm water drains. | Raising public awareness. | Town of Sharpsburg | Ongoing. |
| 2018-2019 | Establish a program to clean the storm water drains within the Town limits on a regular schedule that is financially feasible and at a schedule that is approved by the Mayor and Council, at the very least once a year. | Potential sediment loading reductions. | Town of Sharpsburg | Ongoing. |
| 2018-2019 | Analyze the feasibility of street sweeping once per year, if not more. | Potential sediment loading reductions. | Town of Sharpsburg | Ongoing - Implementation is contingent on Mayor and Council approval, and financial feasibility. |
| 2018-2019 | Evaluate potential of expanding the street sweeping program, planting of additional trees and education and outreach on rain gardens and rain barrels for load reduction potential in meeting the loading allocation. | Increased BMP use will reduce nutrient and sediment loading to local streams. | Town of Smithsburg | Ongoing - The program and implementation of these practices is dependent on the adoption of the Mayor and Council and funding availability. |
| 2018-2019 | Work with local resources to push towards our tree planting goal of increasing tree canopy within town limits. | Increased population and diversity of trees in town. | Town of Smithsburg | Town staff will provide council and the mayor with fiscally responsible options for increasing urban tree canopy. |

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| 2018-2019 | Analyze potential of expanding mechanical street sweeping program in town. | Reduced sediment loading to local streams. | Town of Funkstown | Ongoing - Implementation of expanded program is contingent on financial feasibility and approval of the Mayor and Council. |
| 2018-2019 | Pursue grant funding where available for community projects and programs. | Increased BMP use and outreach efforts will reduce nutrient and sediment loading to local streams. | Town of Funkstown | Ongoing - Implementation is contingent on financial feasibility and approval of the Mayor and Council. |
| 2018-2019 | Working with a consultant to map drainage areas with the town and identify potential projects for restoration. | A dataset that enables town staff to most effectively plan budgets. | Town of Funkstown | Ongoing - Implementation is contingent on financial feasibility and approval of the Mayor and Council. |
| 2018-2019 | Potentially expand the current annual program of cleaning of the storm drains and gutters. | Reduced sediment loading to local streams. | Town of Clear Spring | Completed and Ongoing. |
| 2018-2019 | The Town communicates via newsletter, its website and Town meetings how residents can be proactive in lowering nitrogen and phosphorus loads by using rain barrels, planting trees, etc. | Raising public awareness. | Town of Keedysville | Completed and ongoing. |
| 2018-2019 | Continue to develop the reporting capabilities when residents report various WIP related activities, they are recorded in a spreadsheet. | An increase in water quality activity reporting. | Town of Keedysville | Completed and ongoing. |

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| 2018-2019 | The Mayor and Council continue to seek opportunities to reduce loads in the town. However, as always, financial constraints must be a consideration. | Increased BMP use will reduce nutrient and sediment loading to local streams. | Town of Keedysville | Completed and ongoing. |
| 2018-2019 | The town underwent a Main St. renovation project by the MD State Highway Administration. As part of the project, runoff is being addressed. Options to further mitigate runoff will be assessed by the town. | Potential projects list. | Town of Keedysville | Ongoing. |
| 2018-2019 | Continue working on the potential of mutual project with C&O Canal to address stormwater in Town. Implementation contingent upon National Park Service and Mayor and Council approval and on financial feasibility. | Increased BMP use will reduce nutrient and sediment loading to local streams. | Town of Hancock | Ongoing. |
| 2018-2019 | Continue (and possibly expand) the City's program to plant street trees throughout the City to increase the overall forest canopy coverage. | An increase in urban tree canopy. | City of Hagerstown | Ongoing - this program would be contingent upon continued grant funding from DNR and other agencies, and on continued budget support from the City Council. |

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| 2018-2019 | Study the feasibility of an expanded Urban Nutrient Management program to reduce pollutant loads from non-City owned facilities and properties. Facilities that would be investigated include Rose Hill cemetery and possibly larger commercial sites. | A determination on the feasibility of a program. | City of Hagerstown | Ongoing - This effort would require the support of the City Council, as well as the cooperation of the affected private property owners and agencies. Ultimately, the study could be expanded to look at a City-wide Nutrient Management program for all properties within City limits. |
| 2018-2019 | Evaluate the potential fiscal and programmatic impact of the NPDES Permit on the City's existing services and water quality target efforts. | Analysis and recommendations provided to decision makers. | City of Hagerstown | The NPDES Permit could force the town to adopt or modify existing services to town residents. |
| 2018-2019 | Staff has presented information on various funding mechanisms (including a Stormwater Utility Fee) to the Council and Council has not taken any action on the idea of such a fee and will wait until a new NPDES Phase II permit is issued before making a decision. | A determination on budgetary items related to water quality. | City of Hagerstown | Ongoing - the City Council has deferred additional work on such a fee until a new NPDES Phase II permit is issued and staff has had the time to conduct an in depth analysis of the mandated elements of the permit, so that the scope of funding required to address the new targets can be quantified. |

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| 2018-2019 | Continue to offer students a variety of education programs including environmental science courses, watershed field trips to the Potomac River, and the Envirothon competition that focuses on environmental resources management. | A locally enhanced environmental science curriculum. | WCPS | Ongoing. |
| 2018-2019 | Continue students' participation in additional environmental themed programs at the following specialized facilities: Claude Kitchens Outdoor School at Fairview, Agricultural/Environmental Academy at Clear Spring High School, and the Math Science STEM magnet schools at Springfield Middle School and Williamsport Elementary School. | Continued access for students to expanded programs. | WCPS | Completed and Ongoing. |
| 2018-2019 | Maintain and manage the Nutrient Management Plan for 93 acres of turf. | A compliant management plan. | WCPS Facilities | Completed and Ongoing. |
| Septic Sector | | | | |
| 2018-2019 | The county is going to continue to work with partners in identifying septic tanks that are in need of repair or replacement. | Maintain or enhance current levels of support. | Washington County | The Health Department and the Canaan Valley Institute (CVI) are actively working at septic tank replacements with upgraded BAT systems. |

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| 2018-2019 | As part of the Phase III WIP, the County will develop a more robust, holistic approach to the septic sector in which pumping, replacements, sewer connections, and new systems are all reported and tracked in a GIS the same way that we report and track stormwater features. | Yearly septic BMP data that can be reported for nutrient reductions. | Washington County | Work and progress towards water quality goals is being undertaken everyday throughout Washington County, however, little or nothing is reported to MDE for WIP purposes. Currently the Health Dept. sends our Planning and Zoning Dept. a spreadsheet of the approved septic replacement and new septic permits that they issue throughout the past year. |
| 2018-2019 | Actively seek the advisement of providers in the local septic tank industry in the development of a more robust septic sector program. | A better informed septic sector program with more buy-in from professionals in the industry. | Washington County | Providers have already met with local officials during the development of the Antietam Creek WRP. |
| 2018-2019 | Develop plans to facilitate a meeting with County, Health Dept., local septic service providers and other partners to meet and discuss the best way to capture the number of septic tanks that are being done throughout the year. | A method to gather numbers of yearly septic pumping BMPs we can report each year. | Washington County | Allowing the industry professionals to inform a method for data collection should allow the program to fit into the billing or reporting process that providers are currently involved with. |
| 2018-2019 | Continue working with the Health Dept. in the long-term effort of digitizing septic data within a GIS. | An accurate septic location GIS layer. | Washington County | Staff from our GIS office have assisted in the past and will continue as much as possible. |

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| 2018-2019 | Evaluate the feasibility and effectiveness of a yearly targeted postcard mailing campaign to residents with septic tanks on their property with information about pumping resources or a discount coupon towards having their system pumped and serviced. | Possible increase in public awareness and septic pumping per year. | Washington County | Insight into the effectiveness of this method needs to be looked into. Other jurisdictions have done this and can report on their level of success. |
| Wastewater Sector | | | | |
| 2018-2019 | Continue working with the state and federal government on upgrading and enhancing our existing sanitary sewer programs to better serve county residents. | Capacity built and infrastructure improved. | Washington County | Ongoing. |
| 2018-2019 | Continue to identify inflow and infiltration (I&I) problem areas in the sewage collection system and address as financially feasible and approval by Mayor and Council. | I&I issues identified and appropriate resources allocated. | Town of Boonsboro | Completed and Ongoing. The town has vastly reduced the I&I levels and will continue working with property owners to reduce I&I in the sewage systems. |
| 2018-2019 | Continue to explore and seek wastewater grant funding to enhance existing wastewater programs. | Capacity and increased water quality. | Town of Williamsport | Ongoing. |
| 2018-2019 | Continue ongoing work on sewage collection I&I corrections. Level of effort dependent upon budgetary restraints and Mayor and Council approval. | I&I issues identified and appropriate resources allocated. | Town of Williamsport | Ongoing. |

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| 2018-2019 | Continue investigation of sewage collection system I&I problem areas and schedule repairs based on financial capabilities. | Reduced nutrient loading to streams and groundwater. | Town of Smithsburg | Completed and Ongoing |
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