

District of Columbia 2018-2019 Programmatic Water Quality Milestones: Final

Target Date	Milestone and Description	Agency	Update
URBAN STORMWATER			
Urban Stormwater Management Policy and Implementation			
31-Dec-19	<p><u>Milestone</u> Initiate evaluation of potential options to update District's stormwater regulations.</p> <p><u>Description</u> Initiate assessment performance standard (see Climate Change/Resilience section) and minimum land disturbance threshold for triggering regulatory requirements. Complete assessment for inclusion in District's 2020 MS4 Annual Report.</p>	DOEE	<p>Complete. DOEE has completed research on how other jurisdictions have approached stormwater management requirements for projects that disturb less than 5,000 SF of land.</p> <p>DOEE will next evaluate the opportunity to implement new regulations in the District and if feasible, will begin discussions with stakeholders.</p>
31-Dec-19	<p><u>Milestone</u> Initiate evaluation of potential stormwater fee increase.</p> <p><u>Description</u> Initiate evaluation of options for increasing the District's stormwater fee, including an assessment of how the fee works in tandem with other financing options such as the Stormwater Retention Credit (SRC) Purchase Agreement Program, incentive programs, and regulatory requirements. Complete assessment for inclusion in District's 2020 MS4 Annual Report.</p>	DOEE	<p>Complete. DOEE has been evaluating the District's stormwater fee over the past year, particularly in relation to the Clean Rives Impervious Area Charge (CRIAC) that funds the \$2.7B consent decree project to reduce combined sewer overflows. Both fees are paid by the same DC Water rate payers and affordability has become a major concern for stakeholders in the District. The District is implementing a rate relief program for the CRIAC that may result in additional funding being available to implement green infrastructure in the MS4 area. DOEE will continue to assess the results of this program as well as explore other opportunities to adjust the stormwater fee and leverage other programs to increase investment in the MS4.</p>

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31- Dec-19	<p><u>Milestone</u> Initiate implementation of Stormwater Pollution Prevention (P2) Program Plan for District Operations in compliance with MS4 consent agreement with the U.S. Environmental Protection Agency (EPA).</p> <p><u>Description</u> Conduct inspections and provide compliance assistance to District municipal facilities that are critical sources of stormwater pollution. Activities include: stormwater pollution prevention plan development, P2 Database development, employee training, compliance assistance, inspections, and monitoring. DOEE will fully implement Plan within two years of DOEE and EPA signing Consent Agreement and Final Order (CAFO) for District's MS4 Permit.</p>	DOEE	<p>Complete. DOEE is actively providing compliance assistance to District municipal facilities that are critical sources of stormwater pollution. DOEE has continued to maintain an official inventory to identify these facilities. Since 2018, DOEE has had 219 events reaching 1766 people in activities to assist with and train employees on stormwater pollution prevention plan (SWPPP) development and implementation, P2 Database development, good housekeeping, self-inspections, and monitoring and to provide compliance assistance. Of the 33 critical source facilities requiring SWPPPs, three facilities have completed up to date SWPPPs, 25 facilities have draft SWPPPs, and five facilities plan to draft their SWPPP in early 2020.</p> <p>DOEE has also been working with the DC Department of General Services (DGS) through a contractor to develop and finalize a P2 Database. The P2 Database is scheduled to roll out in January 2020.</p>

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31- Dec-19	<p><u>Milestone</u> Make progress toward "acres managed" requirement of MS4 permit.</p> <p><u>Description</u> MS4 permit sets a 5-year goal to manage 1,038 acres with stormwater best management practices (BMPs). Year-to-year performance will vary, so it is not possible to predict an annual rate of progress.</p>	DOEE	<p>Complete. The District's current MS4 permit took effect on June 22, 2018. Numbers below reflect progress for the first annual reporting period (07/01/2018 – 06/30/2019) toward the permit's 5-year "acres managed" performance requirement.</p> <p>The MS4 Permit's 5-year "acres managed" metric was informed by the long-term average of new development and redevelopment subject to the District's stormwater management regulations that occurs annually. This activity is heavily influenced by economic factors and is therefore somewhat variable on a year to year basis. In other words, individual years may underperform or overperform relative to the average pace toward the full "acres managed" metric. In spite of that variability, DOEE expects the long-term trend to hold over this MS4 Permit term.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 80%;">Watershed / Public-Right-of-Way (PROW)</th> <th style="width: 20%;">Acres Managed</th> </tr> </thead> <tbody> <tr> <td>Anacostia</td> <td style="text-align: center;">68</td> </tr> <tr> <td>Potomac</td> <td style="text-align: center;">21</td> </tr> <tr> <td>Rock Creek</td> <td style="text-align: center;">20</td> </tr> <tr> <td>PROW (duplicating as these areas also included in above watershed totals)</td> <td style="text-align: center;">4</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: center;">109</td> </tr> </tbody> </table>	Watershed / Public-Right-of-Way (PROW)	Acres Managed	Anacostia	68	Potomac	21	Rock Creek	20	PROW (duplicating as these areas also included in above watershed totals)	4	TOTAL	109
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31- Dec-19	<p><u>Milestone</u> Implement Stormwater Retention Credit (SRC) Price Lock Program.</p> <p><u>Description</u> SRC Price Lock program enables participants to sell SRCs to the District government at a fixed price, providing confidence to investors who commit funding to green infrastructure (GI) projects. DOEE has \$11.5 million available to fund this program.</p>	DOEE	<p>Complete. DOEE has enrolled 7 sites in the SRC Price Lock Program. The projects that have been built have achieved a combined retrofit of 15.4 acres in the MS4. Projects in design, permitting, and construction will achieve an additional 6.2 acres in the MS4.</p> <p>SRC aggregators have informed DOEE that the ability to sell SRCs to DOEE through the SRC Price Lock Program has increased investor's interest in funding GI in the District, including at lower interest rates. This increases the funds available to construct green infrastructure in the MS4 area.</p> <p>DOEE has made two SRC purchases through the SRC Price Lock Program, purchasing 290,926 SRCs. DOEE has reserved approximately \$3.6 million of the total \$11.5 million for the SRC Price Lock Program. DOEE reserves funds when projects enroll. Funds are spent over the first 12 years of SRC certification.</p>
31- Dec-19	<p><u>Milestone</u> Implement SRC Site Evaluation Program.</p> <p><u>Description</u> SRC Site Evaluation program provides direct assistance to property owners who want GI installed and are interested in the SRC program but need assistance evaluating GI feasibility. DOEE expects to provide \$100,000 for site evaluations starting in 2018.</p>	DOEE	<p>Complete. DOEE's grantee has conducted three SRC Site Evaluations to assist site owners in the evaluation of green infrastructure feasibility on their property. Additional funds remain available to conduct SRC Site Evaluations.</p>

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31- Dec-19	<p><u>Milestone</u> Implement SRC Aggregator Startup Grant Program.</p> <p><u>Description</u> SRC aggregating businesses that want to design and install GI from multiple projects can apply for an SRC Aggregator Startup Grant of up to \$75,000. These grants support technical and outreach work to identify GI opportunities on properties whose owners are interested in the financial and other benefits of SRC-generating GI.</p>	DOEE	<p>Complete. DOEE has awarded 10 SRC Aggregator Startup Grants of approximately \$75,000 each. These SRC aggregators are in the process of the initial outreach and technical work to develop preliminary green infrastructure designs that will be eligible for participation in the SRC Price Lock Program.</p> <p>The application period for the grant is currently closed, but will reopen if additional funds become available for the SRC Aggregator Startup Grant Program.</p>
31- Dec-19	<p><u>Milestone</u> Release updated Stormwater Management Guidebook.</p> <p><u>Description</u> Updates include: green roof and solar panel installations, expanded rainwater harvesting treatment guidelines, and matching District Department of Transportation's (DDOT) Bioretention Soil Media Mix for consistent installation at facilities across DC.</p>	DOEE	<p>Not Complete. The Updated Stormwater Management Guidebook has not yet been released. DOEE is in the process of releasing regulation amendments for the rule stemming from proposed changes and a public comment period that closed in April 2019. These new regulations and the Guidebook are now synced with release. They are expected to be completed by February 2020. DOEE has updated the Guidebook to be consistent with proposed regulatory amendments. DOEE has also expanded the Guidebook to incorporate technical changes to stormwater Best Management Practice design standards and to clarify existing guidelines and processes to help stakeholders understand the ramifications of proposed rulemaking. DOEE made further revisions incorporating feedback received during the public comment period.</p>

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31- Dec-19	<p><u>Milestone</u> Investigate fertilizer application rates.</p> <p><u>Description</u> The District will investigate fertilizer application rates by engaging with large parcel land owners, federal partners, and District agencies; performing literature review of regional fertilizer application rate studies; and conducting outreach with neighboring Chesapeake Bay jurisdictions, including a review of their fertilizer sales data. This research will contribute to the development of an agreed-to method for determining average application rates and changes in those rates through time.</p>	DOEE	<p>Complete. DOEE collaborated with Tetra Tech to complete a report on Fertilizer Application Trends in March 2018. Responses to surveys and data requests from Federal and District agencies were incomplete. However, the report made useful preliminary assessments on a number of topics, including how application rates in the District compare to Chesapeake Bay Program (CBP) model application rates, changes in the amount of turf in the District over time, potential priority areas for improving fertilizer management, and information gaps for future study and investigation. Since fertilizer sales data was incomplete, a number of scenarios were tested based on different assumptions of how fertilizer may be applied in the District. The results of these scenarios suggest that model application rates for phosphorus are likely higher than actual application rates in the District. A similar conclusion could not be reached for nitrogen application rates. Results suggested actual application rates both above and below the model's assumptions, depending on the scenario tested. A GIS analysis of "high risk" turf areas was also conducted to identify potential priority areas for additional outreach, education, and targeted implementation of fertilizer management.</p>

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Inspections and Enforcement			
31- Dec-18	<p><u>Milestone</u> Establish mechanism for BMP maintenance self-certification.</p> <p><u>Description</u> Pilot BMP maintenance self-inspection and reporting program, starting with sister agencies.</p>	DOEE	Complete. The self-inspection pilot program was launched in September 2018. DC Department of Transportation (DDOT) reported inspection and maintenance activities for 49 post-construction stormwater BMPs via an online module located in DOEE's Stormwater Database.
31- Dec-19	<p><u>Milestone</u> Increase BMP maintenance inspections.</p> <p><u>Description</u> Develop strategies to increase inspector efficiency and productivity such as setting higher inspector quotas, use of contractor, and/or development of self-inspection program .</p>	DOEE	Complete. The BMP maintenance program has been restructured to include a team leader and designated maintenance inspectors including one contractor. Maintenance inspectors have been assigned Wards and quarterly quotas. Maintenance inspection forms have been redrafted to aid in reporting efficiency and database feasibility.
31- Dec-19	<p><u>Milestone</u> Reduce or eliminate stormwater pollutant flows from critical sources</p> <p><u>Description</u> Implement inspection and enforcement program covering critical sources of stormwater pollution. Program elements include up-to-date inventory of all facilities deemed critical sources under the DC MS4 Permit, conduct inspections of critical sources, and assure compliance through compliance assistance or formal enforcement actions as required by MS4 permit.</p>	DOEE	Complete. The Illicit Discharge and NPDES Branch at DOEE continues to inspect critical sources of stormwater pollution according to the annually updated inventory and schedule. The program continues to assure compliance with appropriate compliance assistance and formal enforcement actions.

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31- Dec-19	<p><u>Milestone</u> Implement Illicit Discharges and Illegal Disposal Detection and Elimination program.</p> <p><u>Description</u> Program elements include outfall inventory and dry weather outfall inspections, an illicit discharge reporting system, and aggressive investigation and enforcement procedures. 100% of the outfalls are inspected at least once during each MS4 permit term or every five years.</p>	DOEE	Complete. The Illicit Discharge and NPDES Branch at DOEE continues to conduct outfall inspections according to the annually updated inventory and schedule. The program also actively investigates all reports of spills, releases, and/or illicit discharges and aggressively prosecutes the violators and responsible parties.
Restoration			
31- Dec-19	<p><u>Milestone</u> Make progress toward District goal of 40% Urban Tree Canopy by 2032.</p> <p><u>Description</u> The District has developed an urban canopy plan as a roadmap towards this goal. MS4 permit sets a 5-year goal to plant 33,525 trees in the MS4. Year-to-year performance will vary, so it is not possible to predict an annual rate of progress.</p>	DOEE	Complete. In FY2018, DDOT, DOEE and partners planted 13,260 trees. In FY2019, DDOT, DOEE and partners planted 15,692 trees. The District surpassed its annual planting goals in both years.

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31- Dec-19	<p><u>Milestone</u> Target watersheds around stream restoration projects for RiverSmart incentive programs and complete approximately 1,000 audits annually.</p> <p><u>Description</u> The District has an aggressive stream restoration program. As a part of stream restoration projects DOEE does targeted outreach to properties in the watersheds to encourage voluntary stormwater retrofits through incentives and rebates. Encouraging property owners to undertake stormwater retrofits on their land aids in community buy-in and responsibility for the District's stream restoration efforts.</p>	DOEE	Complete. DOEE worked with residents upstream of the Alger Park and Spring House Run stream restoration projects and offered additional incentives to install RiverSmart Homes projects. Additionally, in 2019 DOEE conducted targeted Riversmart Homes outreach in the Oxon Run watershed in advance of planned stream restoration. In 2018, DOEE had 1,372 audit requests and completed 1,072 RiverSmart Homes audits. In 2019, DOEE had 1,402 audit requests and completed 1,146 RiverSmart Homes audits.
31- Dec-19	<p><u>Milestone</u> Retrofit 2 targeted sub-watersheds with low-impact development.</p> <p><u>Description</u> DOEE has funded DDOT to install low impact development (LID) upland of the Alger Park Stream restoration and the Klinge Run restoration, and the construction of these installations should begin in the second quarter of 2018.</p>	DOEE	Complete. DDOT completed the construction of LID installations at Alger Park. In total, 29 LID practices were installed in the watershed area that drains into Alger Park. In addition, in partnership with the National Park Service (NPS) and Federal Highway Administration (FHWA), approximately 1,500 feet of roadway swales were installed along the roadways that transect Fort Dupont Park.

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31- Dec-19	<p><u>Milestone</u> Complete two large-scale Environmental Assessments covering outfalls on National Park Service land.</p> <p><u>Description</u> DOEE will work with the National Park Service to complete Environmental Assessments (EAs) for outfalls located within the jurisdiction of Rock Creek National Park and National Capital Parks East. EAs are needed in advance of designing and constructing outfall restoration projects.</p>	DOEE	Ongoing. DOEE worked with NPS in 2018 to identify and assess outfalls and downstream gullies on NPS land. DOEE and NPS walked the sites, followed by DOEE developing recommendations on which sites needed an environmental assessment (EA) and which could move forward with a "categorical exclusion" or CATEX. DOEE has begun moving forward to contract project sites with a CATEX designation. Additionally DOEE has begun Environmental Assessments at selected Rock Creek and Anacostia sites. DOEE will prioritize restoring the CATEX sites first while simultaneously working on EAs for the required sites.
31- Dec-18	<p><u>Milestone</u> Complete three Environmental Assessments for stream restoration projects.</p> <p><u>Description</u> DOEE is working with the National Park Service to perform Environmental Assessments (EAs) for restoring three tributaries in the District of Columbia. EAs are needed in advance of designing and constructing these stream restoration projects.</p>	DOEE	Not Complete. DOEE continues to work on Environmental Assessments for Pinehurst and Fort Dupont, but contracting complications caused by required Phase 1 Archaeology work has delayed these two EAs from being completed. In September 2019, DOEE issued a contract for an EA for Stickfoot Branch, but this will not be completed by the end of this reporting period. During this reporting period, DOEE and NPS did reach agreement on several areas slated for gully/stream restoration work that will not require EAs and should be completed on faster timelines moving forward.

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31- Dec-18	<p><u>Milestone</u> Draft living shoreline restoration plan, living shoreline standards, and specifications.</p> <p><u>Description</u> Under the Fisheries and Wildlife Omnibus Bill, DOEE must develop living shoreline construction design details. The shoreline restoration plan identifies areas along the Potomac and Anacostia Rivers ideal for the installation of living shoreline features.</p>	DOEE	Ongoing. A Draft Living Shorelines Opportunities Evaluation Plan has been completed. DOEE is currently developing specifications, guidelines, standards, and regulations to better implement the plan.
31- Dec-19	<p><u>Milestone</u> Develop Critical Area Regulations that address living shorelines, floodplain management, wetlands and wildlife.</p> <p><u>Description</u> Under the Fisheries and Wildlife Omnibus Bill, DOEE must develop regulations for critical areas, defined as areas containing species of local importance, wetlands, frequently-flooded areas, fish and wildlife habitat conservation areas, and critical aquifer recharge areas.</p>	DOEE	Ongoing. DOEE is currently drafting Critical Area Regulations under the Fisheries and Wildlife Omnibus Bill that cover frequently flooded areas, wetland and stream protection, and buffers. These regulations will clarify required management practices to support critically defined areas that contain wetlands and species of local importance, like DC's State Fish, the American Shad.

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31- Dec-19	<p><u>Milestone</u> Support Natural Resource Damage Assessment (NRDA) for Anacostia River and surrounding sites.</p> <p><u>Description</u> Work with federal, state and District trustees to quantify damages associated with contamination of the Anacostia River, sediment, and surrounding sites and identify restoration opportunities.</p>	DOEE	<p>Complete. The formal NRDA process is still getting started, but DOEE conducted multiple activities to support the effort. DOEE led a field visit for NRDA trustees to assess Anacostia restoration goals. DOEE is inventorying potential restoration projects identified in planning efforts to date. DOEE is also conducting initial scoping activities to create a comprehensive restoration plan for the Anacostia River Corridor that addresses restoration, remediation, flood risk reduction, access and recreation opportunities. The plan will help to identify projects ready for implementation as any funding from the NRDA process becomes available. A NRDA kick-off meeting with all trustees will be held in early 2020.</p>
Outreach and Engagement Strategies			
30-Sep- 18	<p><u>Milestone</u> Identify priority areas and audiences for implementation and engagement.</p> <p><u>Description</u> Inventory and analyze target areas for various stormwater management programs to identify priority geographies and audiences for Phase III WIP strategy development.</p>	DOEE	<p>Complete. Targeted subwatersheds available at: https://doee.dc.gov/sites/default/files/dc/sites/ddoe/service_content/attachments/DC%20WIP%20Target%20Areas.pdf</p>

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31-Dec-19	<p><u>Milestone</u> Engage new partners through Community Stormwater Solutions grant program.</p> <p><u>Description</u> Continue and refine Community Stormwater Solutions grant program to engage new partners and build community buy-in for stormwater management and watershed restoration activities.</p>	DOEE	<p>Complete. DOEE continues to refine its Community Stormwater Solutions Grant program to engage new partners and support small businesses in order to raise awareness about what citizens can do to restore the District's watersheds. Most recently in 2019, DOEE awarded 11 grants totaling \$217,330. Of the grantees, 6 organizations were first time recipients of this grant. In December 2019, DOEE awarded the Community Stormwater Solutions Evaluation and Expansion Grant in the amount of \$400,000 to the Chesapeake Bay Trust to accomplish the following goals: (1) improve and grow the existing program; (2) support the work of our District-based nonprofits and small businesses; (3) protect and enhance the District's watersheds, and (4) support the District's emerging green economy, environmental start-ups, and social entrepreneurs through capacity-building initiatives.</p>
31-Dec-19	<p><u>Milestone</u> Create story maps of current projects and programs.</p> <p><u>Description</u> Developing story maps to showcase progress under the MS4 program, State Revolving Fund, and water quality monitoring.</p>	DOEE	<p>Complete. In 2018, DOEE completed a StoryMap to complement the District's 2017 MS4 Annual Report. This StoryMap can be viewed at: https://dcgis.maps.arcgis.com/apps/MapSeries/index.html?appid=9feee1ca749a441d83ef27026f6c0bfd.</p> <p>In 2019, DOEE completed a StoryMap for the 2019 MS4 Annual Report. The StoryMap highlights the District's State Revolving Fund program and water quality monitoring efforts, among other programs. This StoryMap can be viewed at: https://dcgis.maps.arcgis.com/apps/MapSeries/index.html?appid=fb701306972b4e4ea8e63cadb2416967</p>

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31- Dec-18	<p><u>Milestone</u> Develop supporting activities and programming to commemorate the Year of the Anacostia.</p> <p><u>Description</u> Events will engage citizens and organizations in commemorating the history of the Anacostia River and Park and envision its future. DOEE providing funds through Community Stormwater Solutions program.</p>	DOEE	Complete. Year of the Anacostia (YOTA) was a yearlong invitation to honor history, celebrate progress and enjoy the Anacostia River and its surroundings while envisioning an inspiring future. Throughout 2018, organizations hosted events, activities, programs and projects along the Anacostia River to celebrate the ecological restoration, economic growth, and community unity that surrounds the Anacostia watershed. Plans are underway to main YOTA momentum through 2019 and beyond by continuing to convene the partner organizations who worked together on the effort.
31- Dec-18	<p><u>Milestone</u> Develop strategy to engage residents in under-represented communities and encourage participation in the RiverSmart Homes program.</p> <p><u>Description</u> Ensure RiverSmart Homes program is implemented equitably. Residents of Wards 7 and 8 have lower RiverSmart participation rate. DOEE has secured support through NFWF Technical Assistance Provider to better understand barriers to participation among under-represented residents and develop strategy to address.</p>	DOEE	Complete. The RiverSmart team has been engaged in implementing recommendations results from a National Fish and Wildlife Foundation (NFWF) survey. Activities have included developing and installing signage for participants and participating in semi-annual door-to-door outreach events in Wards 7 & 8. DOEE also worked with NSpire Green in 2018 to do a qualitative, focus group survey of current and potential RiverSmart participants in Wards 7 and 8 to identify steps DOEE could take to increase participation in the program.

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31- Dec-19	<p><u>Milestone</u> Develop comprehensive outreach campaign around DOEE programs related to watershed and habitat restoration and water quality.</p> <p><u>Description</u> Develop targeted outreach materials for its voluntary stormwater retrofit, wildlife restoration, pollution prevention, outreach, and education programs. Campaign goal is to increase awareness of and participation in DOEE programs.</p>	DOEE	<p>Complete. DOEE contracted a firm to provide a marketing strategy with creative design and messaging to drive and increase engagement of multiple Natural Resources Administration programs for diverse audiences across all 8 wards. The contractor completed their work in September 2019 with a focus on strategies relevant to outreach in Wards 7 and 8. This work included the development of topline creative messaging for DOEE to better reach target audiences, a media toolkit outlining options for media engagement and sample communications collateral. Two prototypes for potential DOEE marketing materials around the RiverSmart Homes program and Tree Planting Initiatives were created under the contract. DOEE is reviewing the materials and working to incorporate best practices into future outreach efforts.</p>
31- Mar-18	<p><u>Milestone</u> Enhance the Watershed Stewards Academy.</p> <p><u>Description</u> Provide resources to implement capstone projects.</p>	DOEE	<p>Complete. DOEE's Watershed Stewards Academy grantee, the Anacostia Watershed Society, was provided an additional \$7,000 to fund materials, supplies, and staff resources to implement capstone projects in calendar year 2018. Additional funds and resources for capstone projects were also provided in calendar year 2019. In 2018, seven watershed stewards completed capstone projects at five sites in DC. In 2019, an additional seven watershed stewards completed capstone projects at four sites.</p>

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30-Sep-18	<p><u>Milestone</u> Convene Restoration Roundtable Work with Anacostia Watershed Restoration Partnership to hold "Restoration Roundtables" that facilitates projects on private land.</p> <p><u>Description</u> DOEE will work with the Metropolitan Washington Council of Governments (MWCOG), NGOs, and federal and local agencies to identify opportunities for collaboration that would make it easier to implement restoration projects in the Anacostia watershed.</p>	DOEE/ Metro. Washington Council of Govs. (COG)	Complete. DOEE helped to plan and participated in Anacostia Restoration Roundtable hosted by MWCOG in April 2018.
Tracking and Reporting			
31-Aug-18	<p><u>Milestone</u> Develop interface between Stormwater Management, DDOT Tree, and Office of Tax and Revenue (OTR) databases.</p> <p><u>Description</u> Developing database interfaces will allow DOEE to pull relevant information on tree planting, BMP maintenance and ownership from District agencies into the Stormwater Database to assist in program implementation and reporting.</p>	DOEE	Complete. DOEE has integrated the Stormwater Database and the Office of Tax and Revenue Real Property Database.

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31- Dec-19	<p><u>Milestone</u> Implement Stormwater Database Verification Program.</p> <p><u>Description</u> Utilize the stormwater database to track and target verification of projects around the District.</p>	DOEE	Complete. DOEE has continued to use the Stormwater Database to track BMPs across the District and to prioritize maintenance inspections.
31- Dec-19	<p><u>Milestone</u> Implement District's BMP verification program.</p> <p><u>Description</u> Implement District's BMP verification program, including updating Quality Assurance Program Plans (QAPPs) to reflect current verification practices. Changes to verification program include new procedure for submitting wastewater data from permitted facility to EPA NPDES databases to CBP Point Source App.</p>	DOEE / DC Water / U.S. EPA	Complete. DOEE updated BMP Verification QAPP and included description of process for submitting wastewater data via EPA's Point Source App. QAPP submitted to EPA by December 2, 2019.
31- Dec-18	<p><u>Milestone</u> Integrate RiverSmart data into Stormwater Database.</p> <p><u>Description</u> Facilitate programmatic tracking and accountability and support partnerships.</p>	DOEE	Complete. Starting in the spring 2018 and continuing into 2019, DOEE uploaded the majority of RiverSmart Homes data to the Stormwater Database. In 2020, DOEE will continue uploading all new RiverSmart Homes data and add legacy RiverSmart Communities data into the Stormwater Database.

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Federal Facilities			
31- Dec-18	<p><u>Milestone</u> Engage major landholding federal agencies within the District to develop Phase III WIP strategies.</p> <p><u>Description</u> Work with federal facilities to set programmatic and numeric pollution reduction goals and incorporate into District's Phase III WIP.</p>	DOEE	<p>Complete. DOEE hosted webinars and trainings in May and October 2018 and February 2019 to support Federal Agencies within the WIP process. DOEE provided nitrogen and phosphorus planning goals and information for crediting pollution reduction practices in September 2018. In total, 4 of the 5 major Federal Agencies in the District submitted WIP narrative and 2025 Implementation Scenarios, a rate of completion better than the overall watershed rate for other jurisdictions. Additional information at https://doee.dc.gov/service/watershed-implementation-plans-chesapeake-bay</p>
31- Dec-19	<p><u>Milestone</u> Work with federal agencies to acquire and report BMP implementation information.</p> <p><u>Description</u> Incorporate federal data into District's annual implementation progress data submissions as outlined in federal agency stormwater management Memorandum of Understanding (MOU).</p>	DOEE	<p>Complete. DOEE provided templates for federal agencies to submit implementation data in July 2019. Only Department of Defense provided a complete enough submission to be included in the 2019 progress run. Both National Park Service and the United States Department of Agriculture submitted data that was all duplicates of data DOEE already had access to.</p>

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WASTEWATER			
31- Mar-18	<p><u>Milestone</u> Place in operation Anacostia River Tunnel from Blue Plains to RFK Stadium.</p> <p><u>Description</u> Represents first phase of the Clean Rivers Project to control combined sewer overflows and will reduce combined sewer overflows to Anacostia River by 81%.</p>	DC Water	Complete. The first section of the Anacostia Tunnel System was placed in operation, three days in advance of the March 23rd Consent Decree date.
31- Mar-18	<p><u>Milestone</u> Place Wet Weather Treatment facility in operation at Blue Plains.</p> <p><u>Description</u> Blue Plains will accept and treat millions of gallons of combined sewage that previously overflowed into District waterways.</p>	DC Water	Complete. The Wet Weather Treatment Facility (WWTF), along with the first section of the Anacostia Tunnel System were placed in operation, three days in advance of the March 23rd Consent Decree date. During the calendar year, the total volume pumped and treated through the WWTF is 4,578 million gallons. During the same period, approximately 1,000 wet tons of screenings and grit (trash, debris, sediment) were removed, that would otherwise have been discharged into the Anacostia River.
31- Dec-19	<p><u>Milestone</u> Continue progress on construction of Northeast Boundary Tunnel.</p> <p><u>Description</u> Advance design and construction to place NE Boundary CSO tunnel into operation by 2023.</p>	DC Water	Complete. The Northeast Boundary Tunnel design-build contract was awarded in Sept 2017. As of the end of 2019, approximately 2.3 miles of the tunnel has been mined, out of a total tunnel length of 5 miles. Work is also being performed on the diversion facility shaft sites to divert flow to the tunnel. The anticipated place-in-operation date for the tunnel is 2023.

District of Columbia 2018-2019 Programmatic Water Quality Milestones: Final

Target Date	Milestone and Description	Agency	Update
31-Dec-19	<p><u>Milestone</u> Continue progress constructing Green Infrastructure (GI) projects.</p> <p><u>Description</u> Implement GI projects in Potomac and Rock Creek Watersheds per Consent Decree milestones.</p>	DC Water	Complete. Complete. The first green infrastructure projects in the Rock Creek and Potomac sewersheds were placed in operation in 2019. After construction, the Consent Decree provides for DC Water to perform one year of post construction monitoring and then submit a practicability report assessing the green infrastructure. Post construction monitoring started in 2019 and will continue through the spring and summer of 2020. The practicability reports are due to EPA in the summer of 2020 for both Rock Creek and Potomac projects.
31-Jul-19	<p><u>Milestone</u> Include wastewater data in Phase III Watershed Implementation Plan (WIP).</p> <p><u>Description</u> For planning purposes, include wastewater treatment plant and combined sewer system flow, concentration and loading data into Phase III WIP consistent with DC Water's Blue Plains and other NPDES permits.</p>	DOEE/ DC Water	Complete. Includes flow, concentration, and loading data into Phase III WIP for other NPDES permits.
31-Dec-18	<p><u>Milestone</u> Report Blue Plains wastewater and combined sewer system data to Chesapeake Bay Program Office (CBPO).</p> <p><u>Description</u> For progress reporting purposes, update process for reporting fully QA/QC'd wastewater data from DC Water's Blue Plains wastewater treatment plant to EPA NPDES databases and to CBP Point Source online application.</p>	DC Water/ EPA (DC Water)	<p>Complete. Submitted 2018 progress using the new protocol and described it in Draft Phase III WIP. Provided edits to EPA to incorporate new protocol and deadlines into Chesapeake Bay Grant Guidance.</p> <p>Submitted 2019 progress information using new protocol and EPA's Point Source App by December 2, 2019. Updated DC BMP Verification QAPP to describe the process used to submit information via the Point Source App. QAPP submitted to EPA December 2, 2019.</p>

District of Columbia 2018-2019 Programmatic Water Quality Milestones: Final

Target Date	Milestone and Description	Agency	Update
CLIMATE CHANGE / RESILIENCE			
31- Dec-19	<p><u>Milestone</u> Evaluate floodplain regulations.</p> <p><u>Description</u> Explore revision of floodplain regulations to increase the District's resilience and better prepare the District for climate change.</p>	DOEE	Complete. DOEE is revising 20 DCMR Chapter 31, Flood Hazard Rules to propose higher standards than minimum National Flood Insurance Program requirements and incorporate recommendations in Climate Ready DC. DOEE will be sharing the draft regulations with stakeholders in early 2020.
31- Dec-19	<p><u>Milestone</u> Support the Watts Branch Equity Advisory Group.</p> <p><u>Description</u> Provide resources to support Equity Advisory Group in Watts Branch sub-watershed to help residents and community-based organizations develop a strategy to implement Climate Ready DC at the neighborhood level.</p>	DOEE	Complete. The Far Northeast Ward 7 Equity Advisory Group met over the course of seven months in 2018 to develop a set of three recommendations in support of Climate Ready DC and Clean Energy DC. The recommendations (building neighborhood climate resilience hubs, creating workforce development programs for new job opportunities in climate resilience, and working with youth on education and job training related to climate) are available here: https://www.georgetownclimate.org/files/report/eag_recommendations_web_8.20.18.pdf

District of Columbia 2018-2019 Programmatic Water Quality Milestones: Final

Target Date	Milestone and Description	Agency	Update
31-Dec-19	<p><u>Milestone</u> Initiate evaluation of District's stormwater performance standards.</p> <p><u>Description</u> Initiate assessment of stormwater performance standards established by District's stormwater regulations based in part on future precipitation forecasts. Complete assessment for inclusion in District's 2020 MS4 Annual Report.</p>	DOEE	<p>Complete. Though the District has projections of the total volume of rainfall expected during various future design storms, more detailed analysis of the intensity, duration, and frequency of rainfall during those design storms is necessary to evaluate alternative stormwater detention performance standards. DOEE has spoken with experts in Seattle and Philadelphia to discuss how they approached this issue. The DC City Council has approved a \$5.7 million budget enhancement to spend from FY20 and FY23 to develop an Integrated Flood Model. When complete, DOEE will be able to better predict where it will flood, respond to floods, and install infrastructure that will reduce flood risk. The model can also be used to test how much flooding will occur in future design storms.</p>
01-Apr-19	<p><u>Milestone</u> Develop Climate Resilient Design Guidelines and Strategic Implementation Plan for Climate Ready DC.</p> <p><u>Description</u> Develop a strategic implementation plan for Climate Ready DC, the District's climate adaptation plan including recommendations for financing and funding climate resilience projects and the development of climate resilient design guidelines for key infrastructure and development types.</p>	DOEE	<p>Complete. DOEE has awarded a contract to support the implementation of Climate Ready DC. Through this contract, DOEE has completed a strategic roadmap for Climate Ready DC prioritizing high impact and urgency actions. DOEE is also developing resilient design guidelines and working with the capital budget team to institutionalize resilience design.</p>