

# District of Columbia 2018-2019 Programmatic Water Quality Milestones: Update

Target Date	Milestone and Description	Agency	Update
<b>URBAN STORMWATER</b>			
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>On track. DOEE has begun research on how other jurisdictions have approached stormwater management requirements for projects that disturb less than 5,000 SF of land.</p> <p>In the next quarter, DOEE expects to begin research on approaches to update its stormwater detention performance standards based on climate change projections for the coming decades.</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>On track. 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>On track. DOEE is actively providing compliance assistance to District municipal facilities that are critical sources of stormwater pollution. DOEE has compiled an official inventory to identify these facilities. Of these, 20 facilities have finalized SWPPPs, 5 SWPPPs have been drafted but not finalized, and a template SWPPP has been drafted for facilities without one. Thirteen SWPPPs have been reviewed. DOEE finalized an MOU with DGS in July 2018 and has transferred funding to DGS for FY19 work. DOEE has trained 710 District employees since July 2018, through 5 facility-specific trainings and 5 trainings for the District Snow Team. In FY19 DOEE has worked with facilities affected by the Consent Agreement on 16 occasions, providing compliance assistance, site walk-throughs, and information on inspections and monitoring.</p>												
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>Ongoing. The District's current MS4 permit took effect on June 22, 2018. Numbers below reflect progress to date toward the permit's 5-year "acres managed" performance requirement. Note that this reflects only a portion of the first year of the new permit's implementation.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Watershed / Public-Right-of-Way (PROW)</th> <th style="text-align: right;">Acres Managed</th> </tr> </thead> <tbody> <tr> <td>Anacostia</td> <td style="text-align: right;">36.3</td> </tr> <tr> <td>Potomac</td> <td style="text-align: right;">15.84</td> </tr> <tr> <td>Rock Creek</td> <td style="text-align: right;">8.3</td> </tr> <tr> <td>PROW (duplicating as these areas also included in above watershed totals)</td> <td style="text-align: right;">2.84</td> </tr> <tr> <td><b>TOTAL</b></td> <td style="text-align: right;"><b>60.45</b></td> </tr> </tbody> </table>	Watershed / Public-Right-of-Way (PROW)	Acres Managed	Anacostia	36.3	Potomac	15.84	Rock Creek	8.3	PROW (duplicating as these areas also included in above watershed totals)	2.84	<b>TOTAL</b>	<b>60.45</b>
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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>On track. DOEE has enrolled 5 sites in the SRC Price Lock Program. 3 of these projects are built, resulting in a combined retrofit of 7.5 acres in the MS4 area. Another 12.4 acres will be retrofitted by the 2 projects that are in design and permitting.</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 made its first SRC purchase through the SRC Price Lock Program in September 2018, purchasing 28,278 SRCs. DOEE has reserved approximately \$3.2 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>On track. DOEE's grantee has conducted one SRC Site Evaluation to assist a site owner in evaluation green infrastructure feasibility. 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>On track. DOEE has awarded 8 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>Additional funds remain 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>On track. Guidebook release was put on hold as a result of a proposed rulemaking to the 2013 Stormwater Rule. The regulations and Guidebook are now synced with release for public comment expected in February 2019. Guidebook has been updated to provide guidance for the proposed rulemaking, to be used as a tool to help stakeholders understand ramifications of proposed rulemaking.</p>
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</p>	DOEE	<p>Complete. DOEE collaborated with Tetra Tech to complete a report on Fertilizer Application Trends in March of 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</p>

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	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.		study and investigation. 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.
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</p>	DOEE	Ongoing. The Illicit Discharge and NPDES Branch 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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	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		
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	Ongoing. The Illicit Discharge and NPDES Branch continues to conduct outfall inspections according 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	On track. In FY2018, DOEE, DDOT, and partners planted 12,898 trees, meeting FY2018 planting goals. The District is on track to meet FY2019 goals.

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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	On track. 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. In 2018, DOEE had 1,372 audit requests and completed 1,072 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	On track. DDOT is nearing completion of the LID installations at Alger Park. In addition, in partnership with NPS and FHWA, approximately 3,000 feet of roadway swales are being installed in the Fort Dupont watershed.
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></p>	DOEE	On track. 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 will

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	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.		first move forward on project sites with a CATEX designation, followed by sites which will require an EA. DOEE hopes to move forward on sites requiring an EA in the near future.
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	On track. DOEE hopes to have the Fort Dupont Stream Restoration EA completed in early 2019, followed by the Pinehurst Stream Restoration later in the year. DOEE will soon commence designs and an EA for the Stickfoot Branch Stream Restoration project.
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	On track. Draft Living Shorelines Opportunities Evaluation Plan completed.
31-Dec-19	<p><u>Milestone</u> Develop Critical Area Regulations that address living shorelines, floodplain management, wetlands and wildlife.</p>	DOEE	On track. DOEE is currently drafting regulations that cover frequently flooded areas, wetland and stream protection, and buffers.

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	<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>		
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	Ongoing. 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 with District and federal agencies and non-governmental partners to create a Vision for the Anacostia River Corridor that holistically addresses restoration, remediation, flood risk reduction, access and recreation opportunities. The Vision will help to identify projects ready for implementation as any funding from the NRDA process becomes available.
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	Complete. Targeted subwatersheds available at:  <a href="https://doee.dc.gov/sites/default/files/dc/sites/ddoe/service_content/attachments/DC%20WIP%20Target%20Areas.pdf">https://doee.dc.gov/sites/default/files/dc/sites/ddoe/service_content/attachments/DC%20WIP%20Target%20Areas.pdf</a>

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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>On track. 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. In 2018, DOEE awarded 10 grants totaling \$181,985. Half of the grants awarded in 2018 went to organizations that had never received a DOEE grant before. To help build capacity among small and newer organizations, DOEE and Building Bridges Across the River, a local nonprofit, hosted a free, hands-on grant writing workshop series offered in the fall of 2018. In total, 121 people participated in the workshop series, and 43% of District residents who attended were from the historically under-represented Wards 7 and 8. Materials at <a href="https://doee.dc.gov/sites/default/files/dc/sites/ddoe/service_content/attachments/DOEE%20Grant%20Writing%20Workshop%20Materials.pdf">https://doee.dc.gov/sites/default/files/dc/sites/ddoe/service_content/attachments/DOEE%20Grant%20Writing%20Workshop%20Materials.pdf</a></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>On track. In 2018, DOEE completed a StoryMap to complement the District's 2017 MS4 Annual Report. This StoryMap can be viewed at <a href="https://dcgis.maps.arcgis.com/apps/MapSeries/index.html?appid=9feee1ca749a441d83ef27026f6c0bfd">https://dcgis.maps.arcgis.com/apps/MapSeries/index.html?appid=9feee1ca749a441d83ef27026f6c0bfd</a>.</p> <p>In 2019 DOEE will continue to develop additional StoryMaps highlighting the District's State Revolving Fund program and water quality monitoring efforts.</p>
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</p>	DOEE	<p>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</p>

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	Anacostia River and Park and envision its future. DOEE providing funds through Community Stormwater Solutions program.		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. 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.
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	On track. 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. There is a focus on Wards 7 and 8. The one year contract was executed on 10/22/18. Work is underway and expected to be completed by September 2019.

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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	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 will also be provided in calendar year 2019.
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	On track. 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	On track. The District's draft Phase III WIP includes an updated description of the process for submitting and verifying wastewater data to the CBP Point Source App. These and other updates will be incorporated into an updated QAPP by the end of 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	On track. In the spring 2018, DOEE uploaded the majority of our RiverSmart Homes data to the Stormwater Database. DOEE will update some legacy sites in spring 2019.
Federal Facilities			
31-Dec-18	<p><u>Milestone</u> Engage major landholding federal agencies within the District to develop Phase III WIP strategies.</p>	DOEE	On track. DOEE hosted webinars and trainings in May and October 2018 and has one planned in February 2019. Provided nitrogen and phosphorus planning goals and information for crediting pollution reduction practices in

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	<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>		September 2018. Set federal agencies series of deadlines to submit pollution reduction scenarios and provide narratives for the Phase III WIP. To date, only Department of Defense has met deadlines. Others have not due in large part to federal government shutdown. Additional information at <a href="https://doee.dc.gov/service/watershed-implementation-plans-chesapeake-bay">https://doee.dc.gov/service/watershed-implementation-plans-chesapeake-bay</a>
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	On track. DOEE provided templates for federal agencies to submit implementation data in June 2018. Only Department of Defense provided a complete enough submission to be included in the 2018 progress run. DOEE worked with contractor to identify BMPs in Stormwater Database on federal agency land.
<b>WASTEWATER</b>			
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</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,

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	gallons of combined sewage that previously overflowed into District waterways.		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	On track. The Northeast Boundary Tunnel design-build contract was awarded in Sept 2017 with anticipated place in operation date in 2023. The tunnel boring machine has been procured, assembled and is mining. Work is being performed on the diversion facility shaft sites to divert flow to the tunnel.
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	On track. The first green infrastructure project in Rock Creek was completed in the end of 2018 and post-construction monitoring will be performed in 2019 and 2020 to evaluate performance. The first green infrastructure project in the combined sewer service area draining directly to the Potomac River is expected to achieve substantial completion in the spring of 2019 with post-construction monitoring planned for 2019 and 2020 to evaluate performance.
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 NDPES permits.
31-Dec-18	<p><u>Milestone</u> Report Blue Plains wastewater and combined sewer system data to</p>	DC Water/ EPA	On track. 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

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	<p>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>		Chesapeake Bay Grant Guidance. Will update QAPP to reflect new protocol by 12/31/19.
<b>CLIMATE CHANGE / RESILIENCE</b>			
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	On track. 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 has been working with DCRA to ensure that the revised rules are consistent with the proposed revision of the DC Construction Codes (12 DCMR).
31-Dec-19	<p><u>Milestone</u> Support 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: <a href="https://www.georgetownclimate.org/files/report/eag_recommendations_web_8.20.18.pdf">https://www.georgetownclimate.org/files/report/eag_recommendations_web_8.20.18.pdf</a>

## District of Columbia 2018-2019 Programmatic Water Quality Milestones: Update

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	Ongoing. 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 begun to identify experts on the methods for conducting this modelling and on how other jurisdictions are doing this.
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	Ongoing. DOEE has awarded a contract to support the implementation of Climate Ready DC. Through this contract, DOEE will develop resilient design guidelines for a select number of infrastructure types and develop a resilience scorecard to inform capital expenditures on future development. In addition, DOEE will develop detailed implementation plans for high impact and high urgency actions within Climate Ready DC.