

RESILIENCE & SUSTAINABILITY CURRENT PROJECTS - JANUARY 2022

PROJECT	DESCRIPTION	STATUS
WATER QUALITY		
Municipal Separate Storm Sewer System (MS4) Permit Impervious Treatment Credit Generating Projects	Clean Water Act (CWA) National Pollutant (NPDES) permit for Phase II municipalities. Governs storm water conveyance systems. Current permit requires treatment of 20% of the City's 2002 baseline impervious area. Pollutant reductions generate credits towards Chesapeake Bay Total Maximum Daily Load (TMDL) goals. DPW has the lead working with GreenVest to update the Best Management Practices (BMP) database, scope, design, and implement projects, and submit annual MS4 permits to MDE.	BMPs are identified, database is updated, feasibility studies performed for the Back Creek and Spa Creek watersheds, Ambridge Pond retrofit and Timber Creek community are first projects. SPCA property is in design through a grant to the Severn Riverkeeper Program. The Environmental Programs Coordinatoor meets with GreenVest team and maintains the list of projects under study, in design, and under construction. Otherwise, MS4 requirements are addressed by DPW.
Hawkins Cove restoration	\$65,000 grant from the Chesapeake Bay Trust (CBT) to restore Hawkins Cove per the desires expressed by surrounding communities. R&S led development of concept, community outreach, drafted grant application, and assits with moving the project to completion.	The last of six community engagement sessions ocured on 9/15. DPW is assessing infrastructure conditions on site before developing an RFP for design and construction. Overall, the community wishes water access, replacement of the bulkhead with a living shoreline, trail improvements, seating, and natural improvements.

<p>Non-profit and HOA led waterfront improvement projects</p>	<p>City funded Chesapeake Bay Trust grant projects. Other non-profit projects: R&S advises on proposals and facilitates projects through permitting and construction processes.</p>	<p>The City provided \$300,000 to CBT grant program which funded stormwater projects: Analysis and design for Tecumseh Condominiums parking lot, alley retrofit at Cedar Ridge, and hydrologic and hydraulic (H&H) study for design at SPCA stream restoration and living shoreline and design for additional Mariners Point drainage area. Other: St. Mary's stormwater management/living shoreline - redesign scheduled for an administrative hearing with HPC on October 28.</p>
<p>Brewer Hill Cemetery Outfall</p>	<p>Outfall and stream restoration that is a permit requirement from construction of the Severn Savings Bank office building.</p>	<p>The stormwater control project was redesigned following ground penetrating radar revealed potential gravesites in the project area. Construction may begin this fall.</p>
<p>No Discharge Zone (NDZ)</p>	<p>Will prohibit the discharge from vessels of treated (and untreated) marine sewage into waters of Anne Arundel County. Application was a joint effort by the City, AA County, DNR, and the Severn River Association. Application submitted 10/19.</p>	<p>EPA issued final determination approving NDZ designation on 9/13. DNR is drafting regulations to submit to the State for approval. Community education materials will be developed by SRA for use once state regulations are promulgated.</p>

<p>Stormwater Project Workflow and Requirements document</p>	<p>R&S had lead working with staff to revise document to include more details and provisions that will better inform decisions to apply for and undertake projects and the City's requirements. DPW Director incorporating feedback from Waterways Cabinet stakeholders meeting in 7/21.</p>	<p>DPW presented the revised document to Waterways Cabinet 10/12. This document will be refined to remove the explanatory history and then will be posted on the City website and used by DPW going forward with restoration and stormwater control projects. Training to stormwater engineers is next step before distribution of document to non-profits and public via City website.</p>
<p>Stormwater and Sediment and Erosion Controls for Developments</p>	<p>Revise stormwater and sediment and erosion control code requirements to meet the increased frequency and intensity being experienced and forecast for the future. New sediment and erosion control protocol to prevent code violations with increased inspections, photographic evidence from developers and inspectors, daily inspections by developer, and DPW use of drones.</p>	<p>DPW will propose code revisions to keep pace with current and forecast rainfall aimed at building resilience. Planned for fall 2021. DPW announced that it will solicit input on revisions from the environmental stakeholder community, including the Waterways Cabinet, and developers. DPW is developing an inspection checklist to improve inspection quality and an internal memorandum providing direction and support to inspectors and stormwater engineers regarding inspections and enforcement.</p>

<p>Parkside Preserve Development</p>	<p>Meeting site plan requirements and providing information to the public. R&S works with DPW on responses to site conditions and methods for improved monitoring and enforcement, responds to press, elected officials, and resident inquiries, and advises City Manager and the Mayor.</p>	<p>Fines were issued in July and August for violation of sediment and erosion control requirements, field corrections were issued. MDE inspected the site in September and found the site in good order. Meetings were held with the developer on site with City staff and virtually to go over all site requirements. All improvements were made on site and noise and traffic compliance was underscored. MDE made a second site inspection with City and developer staff in October and produced a report making several recommendations for sediment control and decreasing releases from settling ponds. Some additional maintenance actions were required by the City in the past week at entrances to the site.</p>
<p>Waterways Cabinet</p>	<p>Meets quarterly to share ideas and concerns with Mayor and City staff.</p>	<p>The full membership of the Cabinet met 10/12. Topics covered were priorities and challenges for participant organizations, enforcement at Parkside Preserve, hands on water experiences with Severn River Association, providing recycling at the Boat Show (done), Spa Creek projects, plans for sediment and erosion control and stormwater control code revisions, and the revised stormwater control and restoration project workflow.</p>
<p>TREE CANOPY AND PROTECTIONS</p>		

Replant Annapolis	Partnership between the City and Watershed Stewards Academy (WSA) to train residents ("Tree Troopers") to find tree planting sites and plant and maintain trees in their communities. WSA performs recruitment, training, and reviews tree planting proposals.	Program announced on Earth Day (4/21). WSA Proposal finalized and drafting of City/WSA agreement will occur 9/21-10/21. Tree Troopers will be recruited fall 2021 for spring planting. \$30,000 provided by DPW Watershed Restoration Fund for first year of program. R&S collaborating with City Arborist to develop and implement program. Agreement in Procurement Office for finalization.
AIR QUALITY AND ENERGY EFFICIENCY		
"Greening" the City Fleet	Moving towards electric cars as first choice, hybrids as second choice, and cleaner running, more energy efficient vehicles as third choice. Type of vehicle/use will drive decision making, ordering of additional and replacement vehicles, including inspection, maintenance, enforcement, police vehicles, and buses.	A proposed strategy, schedule, and budget will be developed by R&S and DPW fleet manager fall 2021. PW maintenance facility is designed to be EV ready in garage for light duty trucks and in employee parking area.

<p>Electric Vehicle Charging Stations</p>	<p>Partnership with BGE for free acquisition, installation, and maintenance of charging stations located in City owned, leased, and operated parking areas. Additional funds will be needed for Hillman garage charging stations beyond those funded by BGE.</p>	<p>One Level 2 (L2) unit installed at Pip Moyer 7/19; 2 L2's and 1 DCFC in Gotts Garage 5/21; 2 L2s and one DC Fast Charger (DCFC) being installed in Park Place garage 9/21; DC Fast Charger design approved for Visitors Center; 2 L2's and a DC Fast Charger design approved for The Graduate; feasibility assessment will be performed for Maritime Museum Back Creek Education Center and South Street parking lots; units will be designed for Hillman Garage and City Dock. PW maintenance facility designed for units in garage and parking lot. Units installed at West Street and Eastport libraries by BGE and AA County. BGE and DGS installing L2's in front of the Treasury Building.</p>
<p>Reserved spaces for EV charging; penalty O-14-20</p>	<p>Establishes reserved spaces for electric vehicles while charging with a \$100 fine for violations. OEP performed research on penalties, signage, and time limits and provided recommended revisions</p>	<p>The penalties have not been added to EV reserved space signs. R&S will follow up with DPW.</p>
<p>Microgrid Feasibility Study for Newtowne 20</p>	<p>Explored a community alternative energy grid with funding from the Maryland Energy Administration. Grantee Smart Energy Power Alliance (SEPA) partnering with BGE for engineering and technology expertise, with participation by the City and HACA. The project will deliver a replicable, scalable, community micro-grid model. R&S and Mayor's staff participated on stakeholder committee.</p>	<p>Project ran June 2020 - May 2021. The finding was that the community was too far along in the development process for economically efficient incorporation of solar backed power and the community was too small to be feasible. The information from the project can be used for larger redevelopment projects of HACA properties, including Robinwood and Eastport Terrace/Harbour House.</p>

<p>Updates to City Greenhouse Gas Emissions Inventories</p>	<p>Greenhouse Gas Inventory reports for City government and community emissions were prepared in 2006. They are to be updated every 10 years. The reports will establish new baselines and the process is establishing accounting mechanisms for tracking the City's energy expenses.</p>	<p>R&S collaborating with Environmental Commission to prepare reports. Government report will be complete in fall 2021 and then the community report work will begin.</p>
<p>LITTER AND WASTE REDUCTION</p>		
<p>Cigarette Butt Plastic Litter Public Education Campaign</p>	<p>"No Butts in the Bay!" public education campaign regarding the negative environmental impacts of cigarette litter and providing TerraCycle receptacles to gather butts and return for recycling of plastic content. Funded by \$15,000 grant from DNR.</p>	<p>Annapolis Green served as the contractor to develop and implement the campaign. They serviced the receptacles and developed promotional and educational materials, educated residents and visitors and provided portable ashtrays, provided information to businesses. Signs promoting the campaign were rotated throughout the City. 7 receptacles were employed and litter in these areas were reduced. 5 receptacles were purchased with grant funds that became City property and may be rotated throughout the City. DPW will empty the receptacles ("butt bins").</p>
<p>Expanding 2019 Single Use Plastic Campaign to City Government</p>	<p>"Plastic Free Annapolis" was aimed at reducing single use plastic among businesses, primarily restaurants, and residents. Alternate materials were provided and the Mayor and others signed the plastic-free pledge to reduce the use of single use plastic. The campaign was funded by a DNR grant and developed and implemented by Annapolis Green during Aug./Sept. 2019. Annapolis Green continued the campaign as one of the organization's regular programs.</p>	<p>Due to COVID-19, plans were delayed to ensure that all departments and offices are eliminating the use of plastic in city facilities and from operations to the maximum extent practicable. Plans to educate and implement "Plastic Free Annapolis" will commence during fall 2021 and will include public education.</p>

Composting	Encourage composting of food and yard waste. Gather informaton to support the creation of a food waste processing facility on the grounds of the former Annapolis landfill. Collaborate with Anne Arundel County to encourage their participation with the City to supply adequate feedstock to a City run composting facility.	DPW developed a proposal for food waste processing facility. DPW has initiated a discussion with AA County regarding providing food and yard waste and sludge from the waste water processing facility to a potential City/County processing facility. DPW commenced a pilot program for curbside food waste composting 10/21 in Hunt Meadows and continue for six months. Concurrently, Annapolis Green (with DNR grant funding) is providing a drop off site in Truxton Park for six months. The DCM met with Wild Kid Acres, the farm in Edgewater that receives and uses the food waste gathered by the pilot program.
LAND CONSERVATION and IMPROVEMENTS		
Green Overlay to Comprehensive Plan Update	OEP, PZ, PW, MIT are collaborating to create a proposed greenway around the city linking city owned parcels, parks, potential properties to acquire, and trails to provide walking, biking, and jogging and to provide green areas along roadways. "Green overlay" will be part of or added later to the comprehensive plan and will integrate the West East Express concept.	Kick off meeting in March 2020; progress was delayed by COVID-19. Input from staff continued during June and July 2020 and the Conservancy Board provided its comments and suggestions to DPZ for it's the comprehensive plan update.
Improved Hiking/Biking Trails in Truxton Park	Improve severely degraded trails in Truxton Park which will reduce erosion to Spa Creek and enhance user experiences.	Explored trails in March 2020 with Mid-Atlantic Off Road Enthusiast (MORE) to determine next steps. City Forester will examine trees that may be dying and require removal for trail safety.

Chesapeake Bay National Recreation Area	Creation of a National Recreation Area with Annapolis as the anchor area. R&S collaborating with Chesapeake Conservancy on support from Annapolis for federal enabling legislation and with National Park Service on a proposal for Annapolis and surrounding area lands and parks to become part of the Chesapeake Bay National Recreation Area.	Letter was submitted in 2019 in support of Senator Van Hollen's legislative efforts. Working with NPS on vision and public information.
RESILIENCE PLANNING/PROJECTS		
Resilience Plans and Recommendations	Revise the recommendations developed with U.MD and Throe Environmental, incorporating existing mitigation strategies and climate change related reports AND the results of the current DOD funded resilience study being performed for the City, County, and USNA by Stantec.	In October, Stantec led the kick off meeting for the Policy and Technical committees project as it continues to perform research and gather data to inform its resilience. The DCM leads the Policy Committee.
Resilience Authority for Annapolis and Anne Arundel County	Create a quasi-governmental entity to identify and finance resilience infrastructure projects in the City and the County. Projects will protect the City and County from the impacts of climate change.	Both the County (5/21) and City (7/21) passed enabling legislation. The County dedicated \$500,000 to initial funding of the Authority. The City is in discussion with the County regarding the City's contribution. A position description for the Director position was created and advertised. Four applicants were interviewed in October. The goal is to hire a Director before the end of 2021.

Climate Change Litigation	Lawsuit filed to recover damages from oil and gas industry for the climate change impacts. Sher Edling representing Annapolis on a contingency basis.	The City's lawsuit is stayed pending a decision by the Court of Appeals for the 4th Circuit on a federal versus state jurisdictional question in the lawsuit filed by the City of Baltimore. The City's case is pending before a Maryland District Court after the defendants removed the case from the Circuit Court for Anne Arundel County.
Sustainable Annapolis Community Action Plan	The 2012 plan identifies actions to create a carbon-neutral city	Update is planned for fall 2021.
Environmental Stewards Program	Reinvigorate recognition program for businesses, schools, churches, and non-profits.	Planned for winter 2021-2022.
Mosquito Spraying	MDA provides service, but harmful chemicals are employed. There are alternative people and wildlife friendly alternatives.	R&S is exploring options for City and individual communities to opt out of spraying program.
Pollinator Habitat	Provide pollinator habitat at Annapolis solar park to increase pollinator populations.	R&S has lead in exploring feasibility of planting pollinator friendly vegetation at the solar park. City staff met with the solar park operators in 2020, who are interested in collaborating on the project, and a pollinator non-profit and the Maryland Pesticide Network - have information on building and maintaining pollinator habitats in solar parks.
Integrated Pest Management Policy (IPM)	The IPM specifies pesticide use and application by the City. New information needs to be incorporated in the IPM and inform the IPM policy practices.	Maryland Pesticide Network provided information and proposed revisions to IPM policy. Revisions will be made fall 2021.
Community Rating System (CRS) of National Flood Insurance Program	Federal Emergency Management Administration (FEMA) will determine the City's rating which will provide discounts on flood insurance for property owners.	The application will be ready for review in May 2022. The estimated savings on flood insurance for City residents is 15% once the City is rated following review of its application.

Certifications	Tree City, Bee City, Bird City, Sustainable Maryland, STAR, Certified Wildlife Community. Meeting certification requirements improves and increases the sustainability of the City's natural environment; increases success of grant proposals.	Work continues to promote education, plan events, and encourage property owner actions that meet program requirements. A bird education and arts project is being planned for Earth Day 2022 involving elementary and middle school children.
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