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| <b>Dept. of Facilities and<br/>Environmental Services</b> | <b>Albemarle County</b> |
| <b>Environmental Quarterly Report</b>                     | <b>Q3-FY17</b>          |

*This report includes environmental program updates for January, February, and March 2017.*

**General:**

- The Department of Environmental Quality (DEQ) has announced that it will be auditing the County's Municipal Separate Storm Sewer System (MS4) Program during the month of May. This audit will affect multiple departments, including (Community Development, Fire/Rescue, and Public Schools).
- The Environmental Services Division has procured the services of Amec Foster Wheeler to assist with the development of a stormwater utility; meetings with key staff are scheduled for late April and early May.
- The Environmental Services Division collaborated with the Parks and Recreation Department and the Project Management Division to procure term contracts with four civil engineering firms, three environmental consulting firms, and two landscape architecture firms to provide CIP design and other professional services.
- The Environmental Services Division submitted a grant application to the Virginia Department of Conservation and Recreation to support the design of the Hollymead Dam spillway improvements.

**Environmental Compliance:**

- Chris Green Lake Park and Ivy Creek Natural Area well water systems both successfully met Department of Health water quality testing standards for bacteria.
- Environmental Services staff is continuing work with Parks and Recreation Department and the Department of Health to permit additional well waterworks systems at local parks. New permits are expected to be issued April 2017.
- The ACPD Regional Firearms Training Facility waterworks system successfully met Department of Health inspection and water quality testing standards for bacteria and metered usage.
- The following Safer Chemical Waivers were submitted and approved:
  - Facilities and Environmental Services Public Works Division submitted application for an ant control pesticide at McIntire COB on March 16, for a one-time application.
- Facility inspections were completed at COB McIntire, 5th Street COB, Walnut Creek Park, Chris Green Lake Park, Mint Springs Park, Simpson Park, Greenwood Community Center, and ACPD Firearms Training Facility.

**Energy Management:**

- An Energy Service Company has been selected to work with Schools and Local Government as part of the Energy Performance Contract program. This program, administered by the Virginia Department of Mines, Mineral, and Energy (DMME), couples government entities with pre-approved private energy service companies to finance and install energy conservation measures to achieve future energy cost avoidance. A panel comprised of schools and local government

staff reviewed four proposals and presentations during the selection process. An investment grade energy audit was completed on all school buildings and the two main county office buildings and potential projects were identified. The technical data and projects are being presented April 18<sup>th</sup> to staff for the next steps.

- Facilities and Environmental staff met with Secure Future Inc. to discuss solar projects on 5<sup>th</sup> Street COB and potential other facilities.
- The chart below represents “Baseline” energy comparisons to the most current 12-month average ending December 31, 2016 for the three county office buildings. The baseline year for energy is 2005. The change is represented in percentage from baseline annual usage; negative percent equals reduction in use and positive percent equals additional usage from baseline amounts.

|                            | Electricity | Natural Gas | Total Energy |
|----------------------------|-------------|-------------|--------------|
| McIntire COB               | - 33%       | - 56%       | - 40%        |
| 5 <sup>th</sup> Street COB | - 18%       | + 6%        | - 12%        |
| Court Square               | - 19%       | - 14%       | - 17%        |
| Combined                   | - 24%       | - 27%       | - 25%        |

- Although the three county office buildings had increased water usage for the last 12 months this was mainly due to a leak at Court Square and chilled water increases for air conditioning at 5<sup>th</sup> Street and McIntire. Water usage overall is still -45% from baseline year 2006.
- We are continuing to switch to LED lights incrementally and where applicable throughout all facilities.
- Working with contractor for price quotes on the Crozet Train Depot LED project. LED projects for Stations #11 and #12 will follow Train Depot pending budget.
- Additional energy projects outside the Energy Performance Contract will be planned for consideration in the future including solar thermal, solar photovoltaic, lighting, timers and mechanical equipment as budgets allow.
- Facilities and Environmental Services submitted an application to join the SolSmart certification program. The SolSmart Foundation is providing a full time staff position to serve as an advisor to Albemarle County and the City of Charlottesville. This program focuses efforts within local government purview to ease and remove barriers to solar photovoltaic installations in the community. The US Department of Energy (DOE) and the International City/County Management Association (ICMA) sponsor the program. The objective of the advisor will be to assist Albemarle County in gaining Bronze level certification in the SolSmart program.

#### **Solid Waste and Recycling**

- Division staff are preparing an Invitation for Bids (IFB) for ongoing recycling services at the two County office buildings.
- Division staff continue to support the Solid Waste Alternatives Advisory Committee (SWAAC).

#### **Water Quality Protection:**

- A new temporary, part-time position was filled to provide enhanced routine maintenance of County owned/operated stormwater management facilities to better meet DEQ mandates and community expectations.
- Staff has developed MOUs with several other County departments to meet DEQ MS4 Program expectations.
- Staff has prepared for and is anticipating a DEQ inspection of the MS4 Program during the last quarter of FY17.
- Division staff are poised to kick-off the design phase of several capital projects (stream restorations and stormwater facility retrofits) following the execution of term contracts with civil/environmental consulting firms.
- In cooperation with the Department of Parks and Recreation and the Rivanna Conservation Alliance (formerly StreamWatch), staff is finalizing the development of public-facing webmaps of water quality monitoring data.

#### **Infrastructure Management:**

- Staff continue to map area stormwater infrastructure using GIS, primarily using temporary staffing. The GIS includes various attributes characterizing the infrastructure; Staff has mapped approximately 75% of infrastructure in the urban areas.
- Staff conducted new inspections of 170 private and public stormwater management facilities to ensure proper operation and maintenance by the owners.
- Several small drainage infrastructure maintenance and repair projects were completed.

#### **Staff Development and Training:**

- Andy Lowe completed the Department of Health and Virginia Tech training on “Basic Groundwater Course for Small Systems,” offered on February 13-15. Additional staff training based on this course is planned for select Parks and Recreation and Facilities and Environmental Services staff members.
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