

**CITY OF BOWIE**  
**STATE OF THE ENVIRONMENT REPORT**  
**FOR**  
**FISCAL YEAR 2016**  
(JULY 1, 2015 TO JUNE 30, 2016)

**September 2016**

Prepared by the Department of Planning  
and Economic Development



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## **I. Introduction**

The *2016 City of Bowie State of the Environment Report* is a summary of the City's environmental actions and sustainability initiatives undertaken during Fiscal Year 2016 (July 1, 2015 through June 30, 2016). The report tracks the performance measurements for environmental programs and activities. It specifically highlights the Green Team 3-Year Action Plan, as well as many other noteworthy City actions undertaken in the past year such as those outlined in the City's Climate Action Plan, adopted on January 5, 2015.

This report is organized into three sections and has 4 appendices. The first provides a full list of the City's environmental accomplishments during FY 2016. The second section presents progress made specifically by the City's Green Team on its 3-Year Action Plan. The final section identifies some key findings, including some observations of the strengths, weaknesses and challenges for the City's environmental and sustainability actions, as well as an overall conclusion about the City's environment and sustainability outlook.

Appendix A contains a summary table outlining the Green Team Actions. Appendix B provides an update on performance indicators tracked by the Planning Department. Appendix C highlights City documented measures found in the Annual Budget and Capital Improvements Program document. Lastly, Appendix D details the progress of community actions included in the Climate Action Plan.

## **II. Accomplishments**

While the list below is grouped by categories of the Green Team's 3-Year Action Plan, which includes accomplishments made by the Green Team as well as the City, the Environmental Advisory Committee and resident volunteers.

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### *A. Natural Resources*

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- The City is nearing completion on the design of a retrofit for the existing Levitt-era stormwater facility on Midwood Lane. Construction is expected to begin in FY 2017.
- Partial funding for a watershed plan, with expectations of receiving grant funds to cover the balance, was approved in the FY 2017 budget. This was approved for and expected to begin in FY 2016, but the grant program does not accept funding requests related to stormwater until September.
- The Bowie Gardens 4 Wildlife group, now a part of the City's Green Team, sponsored its 5th annual tour of National Wildlife Federation (NWF) Certified Habitats in the City, with 46 people visiting at least one of the seven sites. This year's tour was included as a Centennial event and featured Major Lansdale Park, which boasts a 100+ year old black gum tree and is a historical site.

- The number of residential properties designated as NWF Certified Wildlife Habitats in the City increased to 229 properties including one additional City property, the Bowie Gymnasium. The Bowie Gardens 4 Wildlife group designed interpretive signs for the four City properties that have been certified, and these were installed by City staff.
- The City's Weed Warrior Program continued at Whitemarsh Park with 113 participants and six work days. Since its inception, the program has helped remove English ivy from more than 280 trees at Whitemarsh Park.
- The City continued addressing the Emerald Ash Borer invasion by hiring a part-time forestry assistant and investing \$204,000 in tree removal and replanting.
- Invasives management continued at Church Road Park and Tanglewood Park. The work at Church Road was completed in two phases, including reforestation, and cost a total of \$104,500. Reforestation was not needed at Tanglewood, and invasives control there cost \$9,575.
- The City planted 510 trees - 490 along streets and 20 in parks. In addition, 360 trees were planted at Church Road Park as part of an afforestation plan, and 35 trees were planted in open space adjacent to a stream buffer on Yellowstone Place. Grant funds were received from the Prince George's County Tree ReLeaf program and combined with City funds for the Yellowstone Place planting.
- The Urban Greening Cost Share Program continued with funding of \$5,000. The program provided partial reimbursement for residents that planted trees on their lots. Nine residents participated in FY 2016.
- The City was designated as a "Tree City USA" community for the 24th consecutive year.
- The Bowie Lions Club and the City hosted a rain barrel workshop on May 11, 2016. The number of registered rain barrels in the City is 250, capturing more than 14,300 gallons of rooftop runoff after each storm. *Note: this number decreased since last year due to a data reporting error that was since corrected.*
- Another annual stream cleanup was held on April 2, 2016, and was attended by 31 volunteers who removed 300 lbs of trash, 450 lbs of recycling and many miscellaneous items. A special cleanup was conducted on May 14, 2016, with Boy Scout Troop 403 and Girl Scout Troop 3469 as part of the sustainability plan outreach process.
- The City received two grants through the Chesapeake Bay Trust. The first was in the amount of \$12,500 to continue community outreach related to the City's tree canopy and residential tree planting initiative. The second was a \$50,000 grant that will be applied to the design work on a stormwater retrofit at the Kenhill Center that will include a rain garden and educational signage.

- A survey was completed by the City to gauge interest in a community garden that would have plots to purchase. There was a positive response and a site for the community garden will be investigated further.
- The Bowie Green Team joined the Prince George's County Sierra Club in hosting a green movie night in November 2015 at Bowie City Hall. The film shown was "Tapped," an award-winning documentary that examines the role of the bottled water industry and its effects on health, climate change, and pollution. A short discussion followed the film along with presentations from the City's Watershed Manager and Water Filtration Plant Superintendent.

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*B. Local Economies and C. Food, Health & Wellness*

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- In May 2016, the Greater Bowie Chamber of Commerce (GBCC) and the City's Economic Development Committee presented a Green Business award to the Macy's department store who installed solar panels on their roof with a peak capacity of 1.1 megawatts of renewable energy.
- A "Green Your Business" workshop was held by the City, Green Team, and GBCC with 3 presenters and 15 attendees.
- The City, the GBCC and the Bowie Lions Club sponsored the 6<sup>th</sup> Bowie Green Expo on April 9, 2016.
- The first two businesses achieved Green Bowie Business Certification.
- The Bowie Green Team hosted a Community Supported Agriculture Fair and Organic Gardening Workshop on March 12, 2016, at Bowie City Hall. There were 80 attendees that learned how to get fresh food from local farmers and how to use organic gardening practices at home.
- The Bowie Green Team continued hosting weekly community walks. The goals of the activity are to provide an opportunity for the citizens of Bowie to get together for light to moderate exercise, get out into nature, and highlight the City's many beautiful walking trails. There were 18 events and 75 attendees between July and November 2015.

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*D. Energy and Climate*

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- A hybrid Toyota RAV4 was ordered to replace a code compliance vehicle. Once delivered, the City's pool car fleet will have eight hybrid vehicles.
- The Energy Audit Program continued to provide payment of \$100 each for up to 100 homeowners to receive a comprehensive BGE Home Performance Energy Audit was approved by Council. A total of 98 homeowners received energy audits under this program.

*State of the Environment Report (2016)*

- The City issued 48 rebates for lawn mowers, including four push-reel mowers, eight electric mowers and 36 gas mulching mowers.
- The City again participated in the PJM Demand Response Program by agreeing to switch to generators at three City facilities to curtail energy consumption on high demand days. The City anticipates receiving approximately \$36,000 as a result of this participation.
- The Municipal Green Team continued meeting to discuss ways to meet the Maryland Smart Energy Communities goals and other internal sustainability goals.
- The Energy Efficiency and Conservation Strategy final report was completed. Two ongoing projects from that effort are the solar array planned for the Entzian property (permits pending) and conversion to LED lighting at the Senior Center. The Assistant City Manager will be following these projects to their completion.
- The City once again joined the Prince George's County Municipal Collaboration to apply for grant funding from the Maryland Energy Administration's Empower Clean Energy Communities and the Department of Housing and Community Development's Community Legacy grant in FY 2016. After all the results from the FY 2015 program were in, 23 low to moderate income homeowners in the City received energy audits, and 17 of these also received a range of energy efficient home improvements.
- Adding to the Maryland Smart Energy Communities Award received from the Maryland Energy Administration at the Maryland Municipal League (MML) Conference in June 2015, the City was recognized for its participation in the Prince George's County Municipal Collaboration, which received the MML Achievement Award in June 2016.
- The Senior Citizen Green Housing Rehab Program continued to provide home energy audits and energy efficiency updates to income-restricted senior homeowners. The program is managed by the Office of Grant Development and Administration. The program provided energy audits and/or home rehabilitation projects totaling over \$110,000.
- The City's Planning Department initiated an eco-driving public awareness campaign, which included a tire gauge giveaway at City events, tips in the Green Bowie and Energy Ambassador employee e-newsletters, and reminding staff about the anti-idling policy for City vehicles.
- Solar panels were installed by residents on 536 homes, bringing the total to 1,046 homes since FY 2011.

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*E. Green Schools and F. Other Outreach*

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- There are now 11 Green Schools, as certified by the Maryland Association for Environmental and Outdoor Education including High Bridge Elementary and Tall Oaks High School that are just outside the City limits. Rockledge Elementary completed its first recertification process.

- Several events were held as part of the City’s Sustainability Plan creation. Nearly 1,000 residents weighed in on the plan’s objectives and strategies at a variety of activities to solicit input for the plan. These included a community-wide survey, a day-long, interactive “ImagineBowie” input session, and a City Council meeting. Smaller events included a Hispanic focus group, an interactive session at Bowie High School, mixers at local restaurants, and a poster Q&A at City events.
- The Bowie Green Team held a Green Schools Forum for principals and leaders from Parent Teacher Student Associations of Bowie public schools on November 4, 2015. The meeting focused on available resources to help schools achieve and/or maintain Green School status and to provide more information about the state’s environmental literacy requirement. There were 32 attendees and 13 different schools represented.
- The Green Team sponsored an informational display at Bowiefest to promote environmental awareness. They also provided milkweed seeds and information on monarch butterflies.
- The City’s Sustainability Planner continued posting sustainability achievements and successes on the City’s Facebook page and created a Green Bowie twitter account to increase the connection to the community.
- The volunteer storm drain marking program continued with Scouts and kids in a Vacation Bible School program. To date, nearly 1,000 markers have been installed across the City.
- The Green Team organized an Earth Day Concert and Art Exhibit held at the Bowie Center for Performing Arts on April 24, 2016. There were about 75 attendees and four performances.
- The quarterly e-newsletter with information on current Green Bowie activities increased to 596 subscribers.
- Council passed resolutions declaring April 2016 as Earth Month in Bowie and May 2016 as National Bike Month.
- The City hosted two local pit stops for the regional Bike to Work Day on May 20, 2016, with a total of 45 participants.
- The City held its annual Arbor Day celebration on April 23, 2016, at Acorn Hill Park, which was marked by a tree planting in honor of the day.
- The Sustainability Planner and Watershed Manager continued outreach to schools by presenting to two classes at Tall Oaks High School (October 2015) and conducting a demonstration of the Enviroscope watershed model to four classes at Whitehall Elementary (March 2016).
- The Watershed Manager wrote an article on the successful 2015 Green Principals’ Forum for the September issue of Maryland Municipal League magazine. A poster was presented on the same topic at the annual Chesapeake Watershed Forum.

- The City received a grant to purchase compost bins at a reduced rate and sell them to residents. All 320 bins ordered were sold.
- The City's Sustainability Planner participated in a Young Women's Fair organized as part of a Girl Scout's Gold Award project.
- A free composting workshop was organized by City staff. The focus of the event was to educate those that are new to composting about best practices. There were 23 attendees.
- On June 18, 2016, Public Works held a paper shredding and Styrofoam recycling event where 11 tons of paper and 60 pounds of Styrofoam were collected.
- The City submitted its recertification application for Sustainable Maryland Certified.
- The City's Energy Ambassadors, part of the Municipal Green Team, began sending out a monthly sustainability-related newsletter to their departments.

### **III. Progress on Sustainability Objectives**

This section provides a narrative update on each of the Green Team 3-Year Action Plan categories. It also provides a narrative about progress on the City's Climate Action Plan. Additional details can be found in the Appendices.

#### ***A. Natural Resources***

The Natural Resources Actions completed in FY 2016 included maintaining the City Hall Monarch Waystation and hosting a combined Organic Gardening and Community-Supported Agriculture workshop, at which three speakers presented information about organic gardening and its positive health impacts. Also, the Weed Warrior Program continued to make steady progress with 113 volunteers participating over six individual work days to remove English ivy. Over 280 trees at Whitemarsh Park have been cleared of this invasive vine.

#### ***B. Bowie Gardens for Wildlife***

The existing Bowie Gardens 4 Wildlife group was incorporated into the Green Team as a subgroup at the April 2016 Green Team Executive Committee meeting. This group has taken over the responsibility for achieving and maintaining NWF Community Wildlife Habitat certification. In FY 2016, several Bowie schools received assistance with NWF certification requirements, and the Annual Backyard Habitat Tour was held in June 2016 and was a Centennial event.

#### ***C. Local Economies***

The Local Economies Actions in FY 2016 included hosting a Green Your Business Workshop and continued sponsorship of the annual Bowie Green Expo with the Bowie Lions Club and the Greater Bowie Chamber of Commerce (GBCC). In addition, a Green Business award was



presented to Macy's at the annual GBCC/Economic Development Committee breakfast with help of the Green Team.

***D. Food, Health and Wellness***

The Food, Health and Wellness Actions completed in FY 2016 included promotion of the Bowie-Crofton Garden Club's fall and spring plant sales, assisting an Eagle Scout with expanding the Bowie Food Pantry Garden, and hosting a combined Organic Gardening and CSA Workshop, where five representatives from nearby CSA's gave presentations. Walk Wednesdays continued from July through November 2015 with 18 events at various public trails.

***E. Energy and Climate***

The Energy and Climate Actions completed in FY 2016 included promoting the Bowie Energy Audit Program by working with City staff to contact HOAs. Future energy efficiency presentation ideas were also developed.

***F. Green Schools***

The Green Schools Actions completed in FY 2016 included hosting garden cleanups at Bowie High School, a composting presentation at Benjamin Tasker Middle School with City staff, and a Green Forum for Parent Teacher Student Associations. There were 13 different schools represented at the Green Forum and discussions focused on current Green School achievements, support available for Green Schools, and identifying support still needed for Green Schools. A survey given to attendees indicated workshops focusing on green practices for school and home, composting, Monarch Waystations, and rain gardens would be helpful.

***G. Other Outreach***

The Outreach Actions completed in FY 2016 included representing the Green Team at local events, holding an environmental film screening, hosting the second Earth Day Concert and Art Exhibit at the Bowie Center for Performing Arts, and promoting the Green Bowie e-newsletter. The Green Team was represented at the Bowie Green Expo, Bowie-Crofton Garden Club Spring Plant Sale, Bowiefest, a Science Day at Whitehall Elementary, and all ImagineBowie events. The environmental film screening was of the film "Tapped." It focused on the environmental and health impacts of bottled water. Also, a Green Bowie e-newsletter signup sheet was present at most of these outreach events, and the e-newsletter list has increased to 596 subscribers.

***H. Climate Action Plan Progress***

The Climate Action Plan contains 48 actions to complete by 2020. By the end of FY 2016, 24 of these had been implemented. Using available 2015 data for residential and commercial energy usage entered into ClearPath Programs (from the International Council for Local Environmental Initiatives or ICLEI) and using available 2014 data for transportation and waste emissions, it is estimated that the City has achieved about a 3.6% overall total reduction in greenhouse gas emissions from the 2007 baseline. Residential energy emissions have decreased by about 7%.

Commercial energy emissions have increased by 1.3%. Transportation emissions have decreased by about 2.5%. Waste emissions have decreased by 1.2%.<sup>1</sup>

## **IV. Findings**

Where noted, FY 2015 numbers are used to present actual data that were not known until after the City's Annual Budget and Capital Improvement Program for FY 2017 was printed, rather than the projections shown there.

- Substantial progress was recorded in all categories of the Green Team's 3-Year Action Plan, which has a continuing emphasis on public education and outreach.
- The number of animals running-at-large calls continues to decrease, from 444 calls in Calendar Year 2011 to 272 calls in Calendar Year 2015, while the number of wildlife complaints was below 200 calls annually, down from a high of 306 in Calendar Year 2011.
- The City's vehicle fleet increased to an all-time high of 216 vehicles, including 71 police department vehicles in FY 2015. The total number of vehicle miles driven increased about 2.4% between FY 2013 and FY 2014 and again by the same amount between FY 2014 and FY 2015.
- The total amount of gasoline purchased rose by over 4% between FY 2013 and FY 2014, but decreased by <1% between FY 2014 and FY 2015. The total amount of diesel fuel purchased increased by nearly 3% between FY 2014 and FY 2015.
- The percent of solid waste recycling continued to be about 33% of the waste stream, roughly the same as the past four years.
- The number of households served per solid waste employee has risen from 383 in FY 2012 to 391 in FY 2015.
- The number of tons of white metal increased by 19% between FY 2014 and FY 2015.
- The Public Works Department sweeps well over 1,900 curb miles of street annually. The level of street sweeping in FY 2015 was the same as in FY 2014.
- The number of acres of grass maintained remained constant at 232 acres.
- The number of street trees planted in FY 2015 (305) is 18% higher than that of FY 2014.
- The City maintains 396 miles of storm sewers and 112 acres of basins, outfalls and drainage areas, which includes 77 ponds and basins and 40 outfalls/drainage areas. About five acres and one basin were added last fiscal year. The City cleaned over 4,000 linear feet of open channels in FY 2014, which was 20% less than previous years.

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<sup>1</sup> Each sector contributes a different proportion of greenhouse gases to the total.

- The number of City water system accounts includes 7,700 residential customers and 226 commercial customers.
- The City's Annual Drinking Water Report for calendar year 2015 indicated no water quality concerns although the number of water quality complaints increased to 303 between FY 2014 and FY 2015. This is attributed to a new process for logging complaints and includes all calls rather than just calls where City staff visited a customer.
- The amount of wastewater treatment sludge produced in FY 2015 (2,500 tons) is 3.8% less than the 2,600 tons produced in FY 2014, while the volume of wastewater treated decreased slightly from 700 million gallons in FY 2014 to 690 million gallons in FY 2015.

## **V. Conclusion**

Assessment of the City's overall progress and the Green Team's 3-Year Action Plan through the annual State of the Environment Report helps the City monitor the conditions of the City's environment and its progress in reaching out to and educating residents about environmental issues. At the end of FY 2016, major progress had been recorded in the implementation of the Green Team's 3-Year Action Plan.

The City's environmental programs and facilities remain in full compliance with all applicable laws and regulations. The state of the City's environment and the City's sustainability outlook remain very good. The information contained in this report demonstrates progress in a variety of environmental initiatives. Continued progress will require ongoing work with the Green Team, implementation of the Climate Action and Sustainability Plans, assessment of the City's watersheds, and examining opportunities to provide stormwater management.

## Appendix A: Green Team Actions

Action	Completed	Results
<i>A. Natural Resources</i>		
Continue Weed Warrior Program	Fall 2015 & Spring 2016	6 work days held with 113 participants providing over 339 volunteer hours, More than 280 Whitmarsh Park trees cleared of English ivy as of June 2016
Provide Environmental Health Awareness	March 2016	Combined Organic Gardening and CSA Workshop held; about 80 attendees for both sections; 3 speakers presented about organic gardening and its health impacts
Maintain Monarch Waystation	May 2016	7 volunteers replanted the Monarch Waystation by City Hall during a 1.5 hour event
<i>B. Bowie Gardens for Wildlife</i>		
Promote NWF Wildlife Habitat Certification	Spring 2016	Worked with several schools to help them achieve certification; continued annual backyard habitat tour that had 46 attendees that visited at least one of the seven sites
Create Bowie Gardens 4 Wildlife Subgroup	April 2016	A Bowie Gardens 4 Wildlife subgroup was formed with approval from Green Team
<i>C. Local Economies</i>		
Host Green Bowie Business Workshop	Fall 2015	Held in September 2015; 15 attendees and 3 speakers
Support and Grow Green Expo	April 2016	50 exhibitors, 9 sponsors, and approximately 500 attendees; A kids' corner with activities and children's poster contest provided
<i>D. Food, Health &amp; Wellness</i>		
Continue Walk Wednesdays Events	July 2015 to November 2015	18 Walk Wednesday events held with about 75 total attendees
Promote Spring & Fall Plant Sales	Fall 2015 & Spring 2016	Assisted Bowie-Crofton Garden Club with publicizing spring & fall plant sales held in Bowie
Host Local Food Fair	Spring 2016	Combined CSA Fair and Organic Gardening Workshop held; about 80 attendees for both sections. Had 5 speakers about CSAs and 5 booths with CSA information
Expand Bowie Food Pantry Garden	April 2016	An Eagle Scout project expanded the garden area to 60 X 30 ft from 60 X 20 ft
<i>E. Energy and Climate</i>		
Promote Energy Audit Program	Fall 2015	Worked with City staff to contact HOAs about promoting the Bowie Energy Audit Program and started developing future energy efficiency presentation ideas
<i>F. Green Schools</i>		
Host Garden Workdays	July 2015 to August 2015	Hosted Garden Workdays/Cleanups at Bowie High School; about 44 volunteers attended over 3 events
Host PTSA Green School Forum	November 2015	Green Schools certification presentations were given and a discussion was held. There were 32 attendees from 13 different schools
Host Composting Presentation for School	February 2016	Presentation given to Benjamin Tasker Middle School Green Team members; about 8 students present; 2 speakers (Green Team volunteer and City staff)
<i>G. Other Outreach</i>		
Promote Green Bowie e-Newsletter	July 2015 to June 2016	Four e-newsletters sent; 596 total subscribers
Represent Green Team at Additional Local Events	Fall 2015 to Spring 2016	Staffed booths at Bowie Green Expo, Bowie-Crofton Garden Club Spring Plant Sale, and Bowiefest. 3 Green Team members volunteered to judge Science Day at Whitehall Elementary. Green Team representatives at all ImagineBowie events

Action	Completed	Results
'Tapped' Screening	November 2015	Film screening held at City Hall followed by a discussion. There were 23 attendees.
Earth Day Concert	April 2016	75 attendees, 4 performances and a silent film; Green Expo Posters and artwork made from recycled materials by Nathanael Scott were on display.

## **Appendix B: Additional Performance Indicators**

These are now listed alphabetically.

Indicator	FY12	FY13	FY14	FY15	FY16
<i>Number of...</i>					
Acres afforested	42.5	0	0	0	8
Buildings achieving LEED certification in the City (2008-2010: 1 gold, 4 silver, 1 certified)	2 (gold)	1 (gold)	1 (silver)	0	0
Certified NWF habitats*	102	132	135	183	229
Energy audit rebates issued by City*	n/a	n/a	49	149	248
Lawnmower rebates issued	150	152	89	58	48
Green Schools certified through Maryland Association of Environmental and Outdoor Education	1	1	0	3	6 new 1 re-certification
Park trees planted	17	60	28	71	20
Rain barrels registered*	185	196	210	267	250**
Residential homes with solar panels*	21	68	239	510	1,046
Storm drains marked "No Dumping"* (2009 – 19, 2010 - 133)	266	325	500	711	958
Stream team participants <sup>†</sup>	307	169	75	72	63
Street trees planted	104	165	222	275	510
Trees planted under City rebate program*	n/a	n/a	50	77	86
Weed Warrior Volunteers	n/a	n/a	82	83	113
Pounds of recyclables removed from streams	1,925	1,900	1,010	775	450
Pounds of trash removed from streams	2,175	1,410	590	570	300
Square feet of turf converted to native landscaping*	16,000	19,500	24,500	28,000	31,000
<p><i>*Starting in FY14 stream cleanups were held only in the spring. FY16 includes Scouts that participated in a special cleanup.</i></p> <p><i>*Each year's number presented for these indicators is the cumulative total.</i></p> <p><i>**Starting in 2015, the number of rain barrels will not necessarily represent the number registered in the City because addresses of Lions Club purchases are no longer available, though many are likely in the City. This will be a self-reporting number. A data reporting error was corrected between FY 2015 and FY 2016, accounting for what appears to be a decrease in the number of rain barrels across the city.</i></p>					

## Appendix C: City Documented Measures

These tables were taken from the City’s Approved Budget for FY 2017.

### Animal Control

The Animal Control division of the Department of Community Services is responsible for wildlife complaints and general animal control in the City. This includes capturing any reported wild animals and pets that are either ‘running-at-large’ or are not leashed in public. Note: these numbers are reported on a Calendar Year (CY) basis so 2016 data is not included.

	<b>CY11</b>	<b>CY12</b>	<b>CY13</b>	<b>CY14</b>	<b>CY15</b>
Number of running-at-large calls	444	404	352	281	272
Number of wildlife complaints	306	247	211	196	182

### Equipment Maintenance/Garage

Maintaining and repairing all City vehicles and equipment is the responsibility of the Equipment Maintenance and Garage division of the Department of Public Works.

	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>
Number of vehicles in service	201	206	210	216	218
Total number of vehicle miles driven	1,662,000	1,659,600	1,700,000	1,740,000	1,740,000
Number of Police vehicles	59	64	65	71	73
Gallons of gasoline purchased for all vehicles	108,100	107,100	111,440	111,065	114,842
Gallons of diesel purchased for all vehicles	89,300	86,500	93,910	97,107	104,002

### Solid Waste

The Solid Waste division of the Department of Public Works is responsible for the collection and disposal of the City's solid waste. This includes bulk trash pickup, glass, cans, newspaper, magazines, junk mail and yard waste pickup for recycling; twice weekly household refuse pickup; and weekly pickup of special metals and tires.

	<b>FY12</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15<sup>†</sup></b>	<b>FY16</b>
Number of households served (per employee)*	383	383	385	391	392
Total number of tons collected	29,409	30,120	29,267	29,300	30,660
Number of tons land filled	19,966	19,350	19,267	19,167	20,800
Number of tons recycled	9,443	10,770	9,609	9,296	9,860
Single stream tons recycled	4,434	4,799	5,062	5,325	5,100
Percent of solid waste stream recycled	32%	32%	33%	33%	32%
Sales Revenues from Recyclables	\$70,166	\$28,799	\$27,324	\$32,897	\$15,000

	FY12	FY13	FY14	FY15 <sup>†</sup>	FY16
Number of tons of white metal collected	91	58	80	95	70
<i>*In the FY17 budget, the number of households served was changed to per employee reporting.</i>					
<i>†FY15 has actual values for solid waste landfilled and recycled rather than the projected values from the budget</i>					

### Streets

The responsibilities of the Streets division of the Department of Public Works include all street and sidewalk maintenance as well as street and traffic signs, posts, snow removal and ice control on approximately 187 miles of City streets.

	FY12	FY13	FY14	FY 15	FY 16
Miles of street maintained	187.5	190.5	190.9	190.9	190.9
Square Yards of Streets Resurfaced	194,485	173,968	248,704	220,835	151,925
Miles of street resurfaced	12.88	11.50	14.6	13.9	8.5
Curb-miles of street swept	1,875	1,905	1,909	1,909	1,909
Miles of sidewalks maintained	129.8	129.8	139.3	139.3	139.7
Number of street lights maintained	5,651	5,729	5,840	5,840	5,840

### Public Buildings and Grounds

The Public Buildings and Grounds division of the Department of Community Services is responsible for maintenance at all City owned buildings and facilities.

	FY12	FY13	FY14	FY15	FY16
Square feet of buildings cleaned//maintained	190,732	190,732	190,737	190,737	151,534

### Parks and Grounds

The Parks and Grounds division of the Department of Community Services maintains all City ball fields, parks, bike trails, fences, play areas, play equipment and flower beds, as well as all trees, shrubs, and lawns on City property and the fencing along Route 197.

	FY11	FY12	FY13	FY14	FY15	FY16
Number of acres of grass maintained	202	232	232	232	232	232
Average number of times mowed per year	32	38	36	36	32	36
Acres of R.O.W. and Parkland maintained	72	102	102	102	102	102
Acres of athletic field turf maintained	130	130	130	130	130	130
Number of fields maintained	65	65	65	65	65	65
Number of fields irrigated	26	26	26	26	27	27
Number of fields lighted	21	21	21	21	21	21
Miles of trail maintained	24	24	24	24	24	24
Number of trees in right of way inventoried	17,500	17,500	17,500	17,500	17,850	17,725
Number of trees maintained (pruned)	2,500	4,506	3,795	3,195	3,300	3,500

	FY11	FY12	FY13	FY14	FY15	FY16
Number of trees planted in right of way	200	111	212	259	305*	450
Number of annuals/color planted	5,000	8,000	9,126	9,109	9,190	9,090
<i>*The actual number of trees planted in FY 2015 was 275. The number recorded here is what was projected in the budget.</i>						

### Stormwater Management

The Stormwater Management division of the Department of Community Services provides stormwater facility management to the City's stormwater system.

	FY11	FY12	FY13	FY14	FY15	FY16
Miles of Storm Sewers	396	396	396	396	396	396
Total acres of basins, outfalls and drainage areas maintained	101	104	107	107	112	113
Number of SWM ponds and basins maintained	71	73	76	76	77	79
Number of SWM outfalls and drainage areas maintained	40	40	40	40	40	42
Open channels cleaned (linear feet)	5,805	5,000	5,000	5,000	4,000	5,000

### Water

The Water division of the Public Works Department is responsible for the production and purification of the water supply for the City, which meets or exceeds all State and Federal health standards. The water is fluoridated for health purposes and the iron is removed by a filtration-flocculation aeration-sedimentation process. The cost of maintaining the water distribution system is included in this division.

	FY12	FY13	FY14	FY15	FY16
Miles of pipeline	90	90	90	90	90
Millions of gallons treated/delivered	586	572	589	593	600
Number of water/sewer customers-residential*	7,685	7,699	7,700	7,700	7,700
Number of water/sewer customers-commercial*	223	209	225	209	226
Customer complaints about water quality**	29	12	48	303	300
<i>*The water/sewer customer numbers are taken from the Comprehensive Annual Financial Report.</i>					
<i>**The increase in complaints in FY15 is due to a change in recordkeeping. All complaints are now being tracked rather than just the ones requiring intervention from the City.</i>					

### Wastewater

The Wastewater division of the Public Works Department is responsible for the collection and treatment of raw sewage. After treatment, the water is returned to the Patuxent River in full compliance with State and EPA permit standards. The cost of maintaining the sewer collection system is included in this division.

	FY12	FY13	FY14	FY15	FY16
Miles of collection mains in the system	85	85	85	85	85
Miles of collection system cleaned	20	30	41	51	42
Million gallons of wastewater treated	715	680	700	690	680
Tons of sludge produced	2,700	2,400	2,600	2,500	2,400



## **Appendix D: Climate Action Plan Progress**

Estimated reductions in greenhouse gas emissions are made by entering available 2015 data residential and commercial energy usage and available 2014 data for transportation and waste emissions into ICLEI's ClearPath Programs. The result shows **about a 3.6% total reduction compared to 2007 levels**

**Residential Energy Emissions** ↓ by 7.0%

**Transportation Emissions** ↓ by 2.5%

**Commercial Energy Emissions** ↑ by 1.3%

**Waste Emissions** ↓ by 1.2%

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### **48 Actions in City's Plan to Complete by 2020**

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#### **Short-Term Action Progress**

##### 15 Short-Term Actions

- All have been implemented
- 14 of 15 actions are mostly complete or completed
- 1 action is 40% complete

#### **Mid-Term Action Progress**

##### 20 Mid-Term Actions

- 3 are currently in progress
- 9 have been implemented
- 8 are planned for FY 2017

#### **Long-Term Action Progress**

##### 13 Long-Term Actions

- 2 currently in progress
- 9 planned for FY 2018
- 2 planned for FY 2019

SECTOR: Energy	Action	Time-Frame	Status
	<i>Goal A. Promote and expand new and existing <u>residential</u> energy efficiency and conservation programs</i>		
	1. Enhance outreach efforts and increase participation in existing low-income energy audit and weatherization assistance programs.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Goal 230 energy audits and weatherization projects</li> <li>- 130 audits/weatherization completed for seniors through the City’s Residential Energy Efficiency Program, updated with FY 2015 info. and corrected, about 30 participants currently in process for FY 2016</li> <li>- 47 audits/weatherization projects completed with MEA Municipal Collaboration, updated with FY 2015 info. About 20 participants currently in process for FY 2016</li> </ul> <p><b>About 99% Complete (227 out of 230 projects underway or completed)</b></p>
	2. Provide financial incentives for City residents that complete energy audits on their homes.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Goal 1,000 households to complete BGE energy audits/assessments</li> <li>- 248 BGE energy audits completed through incentive program</li> <li>- About 1,000 BGE QHECS and HPWES audits completed in Bowie since 2009 (used Bowie area percentage and zip code only data)</li> </ul> <p><b>Complete (achieved 1,000 assessments)</b></p>
	3. Promote residential energy audits at Green Team events and on City website.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Residential energy audit webpage created</li> <li>- Residential energy audits promoted at 3 City events in FY 2014, 4 City events in FY 2015, and 7 City events in FY 2016</li> <li>- Residential energy audits will continue to be promoted at future City events along with Bowie’s Energy Audit Program</li> </ul> <p><b>Mostly Complete</b></p>
	4. Develop common energy efficiency improvement recommendations for Levitt house designs. Distribute information to Levitt community homeowners.	Mid-Term	<ul style="list-style-type: none"> <li>- Goal is to have 770 homes make improvements</li> <li>- 18 residents that have participated in the Bowie Energy Audit Program ended up completing home improvements, most from Levitt area</li> <li>- Energy Audit Reports from Levitt homeowners were collected as part of the FY 2016 energy audit incentive program</li> <li>- An informational handout about common energy efficiency improvements for Levitt homes is in development</li> <li>- Need to send out mailing with handout in FY 2017 and track responses to mailing</li> </ul> <p><b>In Progress</b></p>
	5. Work with homeowner and condo association management companies that have properties to educate residents about energy efficiency.	Mid-Term	<ul style="list-style-type: none"> <li>- Goal to educate 1,034 households</li> <li>- Set up meetings in FY 2016 and track number of households reached</li> </ul> <p><b>To Be Implemented – Moved to FY 2017</b></p>
	6. Promote energy efficiency programs available for rental and multi-family residence buildings.	Mid-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Contacted 7 identified multi-family/apartment buildings and gave each information about BGE’s multi-family energy saving programs</li> <li>- About 602 units completed as part of BGE multi-family program (used area percentage and zip code data)</li> </ul> <p><b>Mostly Complete</b></p>

SECTOR: Energy (cont)	Action	Time-Frame	Status
	7. Provide information to potential homebuyers regarding the County’s program for an Energy Efficiency Mortgage and utility bill disclosure ordinance.	Mid-Term	- Add Energy Efficiency Improvement Info to City Welcome Packets - Set up meeting with local real estate agencies and track number of meetings. <b>To Be Implemented – Moved to FY 2017</b>
	8. Work with energy providers and the County and State to maximize use of existing financial incentives and other resources that assist residents in promoting energy efficiency.	Mid-Term	- Set up meetings with State/County and track number of meetings - Publicize State/County Programs <b>To Be Implemented – FY 2017</b>
	<b><i>Goal B. Promote and expand new and existing commercial energy efficiency and conservation programs</i></b>		
	1. Establish a Green Bowie business recognition program that promotes energy and greenhouse gas reduction efforts of local businesses.	Mid-Term	- Implemented - Goal is to certify 65 businesses - 2 businesses certified since 2015 <b>About 3% Complete (2 out of 65 businesses)</b>
	2. Promote the State of Maryland’s Green Registry for businesses.	Mid-Term	- 4 City Businesses on Maryland Green Registry as of June 2016 - Link to Green Registry Program on City website - Requirement of Green Bowie Business Certification <b>Mostly Complete</b>
	3. Work with energy providers and the County and State to maximize use of existing financial incentives and other resources that assist businesses in improving energy efficiency.	Mid-Term	<b>To Be Implemented – FY 2017</b>
	4. Benchmark and disclose energy performance and improvements of commercial buildings.	Long-Term	-Track number of businesses using Portfolio Manager <b>To Be Implemented – FY 2018</b>
	<b><i>Goal C. Increase green building projects for new and existing buildings</i></b>		
	1. Establish a City policy regarding green building standards for commercial and residential buildings.	Long-Term	- Policy to affect 1,870,812 sq. ft. of building space <b>To Be Implemented – FY 2018</b>
2. Track and showcase green building projects throughout the community.	Mid-Term	- Implemented - City green buildings highlighted on City website - Green schools and businesses highlighted on City website - Investigate Green Building Tour <b>- Partially Complete</b>	

SECTOR: Energy (cont)	Action	Time-Frame	Status
	<i>Goal D. Increase installation of renewable energy projects</i>		
	1. Track and showcase innovative renewable energy projects throughout the community (city, schools, businesses, individuals).	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>All renewable energy projects are tracked and showcased on the City's website</li> <li>- MWCOG solar presentation on November 20, 2015</li> <li>- January and March Solar Co-op information sessions attended by Bowie residents who already installed solar on their home</li> <li>-Notified Green Team Volunteers about hosting for DC Metro Solar Tour in October</li> </ul> <p><b>Mostly Complete</b></p>
	2. Increase number of residential and commercial solar systems installed by promoting solar technology.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Heavily promoted solar co-op from January through April 2015</li> <li>- Worked with resident on solar opinion piece in March/April 2015</li> <li>- Solar Co-op Completed. 53 solar installations achieved</li> <li>- As of June 2016, there are 1,046 residential solar systems that are, on average, 8 kW in capacity, and two businesses (Target and Macy's) with combined 1.613 MW of capacity.</li> <li>- Goal is 24,758 kW of capacity</li> <li>- Solar installations have been increasing by over 50% every year since 2010</li> <li>- County property incentive funds spent into 2017</li> </ul> <p><b>About 40% Complete</b> (9,981 of 24,758 kW goal)</p>
	3. Complete Solar Roadmap goals.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Remaining goal to encourage financial stakeholders to provide solar loan programs</li> </ul> <p><b>About 89% Complete</b> (8 of 9 goals met)</p>
<i>Goal E. Decrease use of natural gas lawn mowers</i>			
	1. Incentivize purchasing of electric and push reel lawn mowers.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Publicized on City website, Facebook page, Green Bowie e-newsletter, and at Green Bowie events</li> <li>- As of June 2016, there were 12 push reel mower rebates issued and 18 electric mower rebates issued</li> </ul> <p><b>Mostly Complete</b></p>

SECTOR: Transportation	Action	Time-Frame	Status
	<i>Goal F. Reduce single occupant vehicle trips</i>		
	1. Work with major employers in the City to promote multiple-occupant commuting. Encourage car-sharing, Dial-a-Ride, RideSmart, RideFinders, preferred parking for carpooling employees.	Mid-Term	- Goal is 349 people carpooling/vanpooling - Track number of businesses and employees that participate in multiple occupant commuting - Publicize available programs <b>To Be Implemented – FY 2017</b>
	2. Investigate opportunities for additional commuter parking lots and more effective use of the existing park and ride lot on Northview Drive.	Long-Term	- Investigate/install additional commuter parking lots - Get data of usage for Northview Park and Ride <b>To Be Implemented - FY 2019</b>
	3. Consider expanding shuttle services for senior and disabled residents.	Long-Term	- Goal is 174 daily ridership increase from 2007 number - Get ridership data from Community Services <b>To Be Implemented - FY 2018</b>
	<i>Goal G. Reduce vehicle miles of travel</i>		
	1. Work with WMATA and Prince George’s County to evaluate route restructuring for City areas, and expand new service, including The Bus, to employment areas and other generators.	Long-Term	- Goal is 523 additional daily riders from 2007 number - Get ridership data updated data from WMATA <b>To Be Implemented - FY 2018</b>
	2. Promote walking and biking through events such as Bike to Work Day and Car Free Day.	Short-Term	- Implemented - Bike to Work Day event held every year since 2004 with about 500 total participants - Both promoted through City resolutions and City media sources using flyers, Facebook, Twitter, website, local newspapers, and cable ads <b>Mostly Complete</b>
	3. Apply the City’s Development Review Guidelines and Policies in land use and planning and urban design, in order to create bike and pedestrian friendly communities.	Short-Term	- Implemented - Guidelines are being used - Bike and pedestrian guidelines applied when reviewing 4 development projects in FY15 <b>Mostly Complete</b>
	4. Increase bicycle and pedestrian mode share through bike-sharing systems, bike racks, bike lanes, pedestrian trails, reprogrammed traffic signals, and improved pedestrian access to bus stops, rail stations.	Long-Term	- Goal is 3,489 additional weekly bike trips from 2007 number <b>To Be Implemented – FY 2018</b>
5. Continue to inventory pedestrian and bicycle facilities and identify pedestrian safety projects, (e.g. Safe Routes to School), sidewalk linkages and hiker-biker trail improvements to encourage walking and bicycling.	Short-Term	- Implemented - City staff currently completes these inventories - In 2015, the City completed an inventory and condition rating of the City’s hiker-biker trail system. The inventory shows a listing of trails needing to undergo repair/reconstruction and missing links in the existing trail network - <b>Mostly Complete</b>	

SECTOR: Transportation (cont)	Action	Time-Frame	Status
	6. Encourage Transit Oriented Development at Melford and Bowie Regional Center.	Long-Term	- Currently working with Melford developers - About 2,623 Melford/Regional Center units being created <b>In Progress</b>
	7. Work with WMATA to expand transit service along the MD 450 Corridor and to Old Town Bowie as identified by the Bowie and Vicinity Master Plan.	Long-Term	<b>To Be Implemented - FY 2018</b>
	8. Work with the State, County, and M-NCPPC to implement roadway infrastructure priorities identified by the Bowie and Vicinity Master Plan.	Long-Term	<b>To Be Implemented - FY 2018</b>
	<i>H. Increase electric vehicle use and the efficiency of existing transportation</i>		
	1. Partner with MWCOG and other stakeholders to develop and increase electric vehicle and other alternative fuel vehicle infrastructure.	Short-Term	- Implemented - Goal to have 5 electric charging stations in the City - State incentives available for purchasing electric vehicle stations and charging stations - State electric vehicle incentives highlighted at Nissan of Bowie booth at Bowie Green Expo - 4 electric charging stations installed within City limits as of June 2015 – Bowie Town Center, Semaconnect, City Hall, Nissan of Bowie <b>About 80% Complete (4 out of 5 installed)</b>
	2. Promote the locations of alternative fuel charging stations.	Short-Term	- Implemented - City website has link to EPA map of electric charging stations in the U.S. - Bowie Town Center and City Hall electric charging stations promoted on City Facebook page - 2 marketing strategies utilized to promote charging station locations <b>Mostly Complete</b>
	3. Explore the possibility of a Zipcar drop off point at the Northview Park and Ride.	Long-Term	-Goal to have 1,117 participants <b>To Be Implemented - FY 2018</b>
	4. Educate the public about eco-driving techniques.	Mid-Term	-Implemented - Ordered 350 Green Bowie tire gauges, distributed with eco-driving tip flyer <b>Mostly Complete</b>
5. Explore the potential for reserving hybrid vehicle parking spaces at shopping centers.	Mid-Term	-Reserved hybrid spots currently at City Hall <b>To Be Implemented - FY 2017</b>	
6. Investigate and apply Transportation Systems Management.	Long-Term	<b>To Be Implemented –FY 2019</b>	

SECTOR: Waste	Action	Time-Frame	Status
	<i>Goal I. Increase recycling rate, reduce the generation of waste, and promote reuse of materials</i>		
	1. Provide additional opportunities for residents and businesses to recycle cardboard, glass, paper, and plastic products in the community, such as once-a-month paper shredding and Styrofoam collection events at revolving locations throughout the City.	Mid-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Goal to divert 300 lbs per person per year</li> <li>- Larger recycling bins provided to all Bowie households</li> <li>- By increasing recycling tonnage from 23% to 35% of the waste stream by 2014, it was estimated that the City would avoid 396 metric tons of CO<sub>2</sub> equivalent emissions – this is included in the municipal climate actions, however anything beyond 35% rate should be included in community climate reductions</li> <li>- One paper shredding event was held on Sept. 12, 2015 by County, promoted on City Facebook page, others held by City on June 20, 2015 and June 18, 2016 for Styrofoam and paper. 5 tons were collected for shredding in 2015</li> </ul> <p><b>Partially Complete</b></p>
	2. Initiate a backyard composting program that provides rebates to residents for composting bins and rebates to homeowner or condo associations that create and use compost piles.	Mid-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Goal to divert 300 lbs per person per year</li> <li>- Sold 320 discounted backyard compost bins to City residents who wanted to start composting</li> <li>- Ordered 280 more to sell in 2016</li> </ul> <p><b>Partially Complete</b></p>
	3. Encourage use of reusable grocery bags.	Short-Term	<ul style="list-style-type: none"> <li>- City webpage created with info about reusable bags</li> <li>- Green Team participated in baseline study for reusable bag use in FY14 – 8% reusable bag use as of 2014</li> <li>- Highlighted reusable bag use in the May 2014 Bowie Spotlight</li> <li>- Large signs promoting reusable bag use at FY14 and FY15 Green Expo events</li> <li>- Nearly 500 bag tags encouraging reusable bags used were passed out at various Green Bowie events</li> <li>- Over 100 reusable bags passed out at each FY14, FY15, and FY16 Green Expo events. over 300 passed out in total</li> <li>- Farmers’ Market reusable bags distributed annually</li> <li>- Highlighted in city-wide mailing about new County Plastic Bag Recycling Law</li> </ul> <p><b>Mostly Complete</b></p>
	4. Give educational notices to residents that are not recycling large items.	Mid-Term	<b>To Be Implemented - FY 2017</b>

SECTOR: Waste (cont)	Action	Time-Frame	Status
	<i>Goal I. Increase recycling rate, reduce the generation of waste, and promote reuse of materials</i>		
	5. Work with the County to conduct one or more hazardous household waste collection days per year.	Mid-Term	- Implemented - An electronics recycling event was held on Saturday, December 6, 2014, at Public Works with the County. Over 200 vehicles arrived at Public Works and approximately 6.25 tons of electronic equipment was collected and recycled - The County also held other electronics recycling events on February 28 <sup>th</sup> , and March 7 <sup>th</sup> , 2015, and on Nov. 14 <sup>th</sup> , 2016 - City received grant to host an electronics recycling event in Fall 2016 <b>In Progress</b>
	6. Educate public on services such as electronics recycling, hazardous waste collection and disposal, batteries, old paint and other hard to dispose of or recycle items for which the county offers services.	Mid-Term	-Implemented -A City-wide mailing that detailed new recycling laws as well as electronics recycling and hazardous waste collection went out in June 2015 <b>Partially Complete</b>
	7. Explore cooperation with Prince George’s County in enforcing aspects of the Solid Waste Master Plan.	Long-Term	<b>To Be Implemented - FY 2018</b>
	8. Work with the Greater Bowie Chamber of Commerce to advise local businesses of County recycling requirements.	Mid-Term	- Working with County and Chamber to host webinar about Styrofoam ban and businesses recycling <b>In Progress</b>
	<i>J. Improve the carbon footprint of the waste collection system</i>		
	1. Gain support from residents for once a week trash and recycling pick up.	Long-Term	- Public Works Dept. study moved to FY 2017 <b>In Progress</b>
	2. Install a solar power trash compactor at Jericho Park as a demonstration project and promote this technology to commercial businesses.	Mid-Term	- Solar powered self-contained compacting/recycling receptacles were proposed/investigated for City Hall and the Ice Arena in FY 2016 but were not completed - Need to investigate possible grant opportunities <b>To Be Implemented - FY 2017</b>



SECTOR: Land Use	Action	Time-Frame	Status
	<i>K. Increase tree canopy</i>		
	1. Increase tree canopy by providing financial incentives to residents, HOAs, and organizations for planting trees.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Goal 1,800 trees including street trees planted</li> <li>- 40 trees planted at All Saints Church in May 2014</li> <li>- 86 trees planted as part of the City tree rebate program as of June 2016, the program began in FY14</li> <li>- No Bowie participants in Tree ReLeaf as of June 2016</li> <li>- 1,890 street trees planted in Bowie from FY 2008 - FY16 (including 35 trees planted at Yellowstone Place in October 2015 as part of the County’s Tree ReLeaf program), and the number of trees planted in FY15 to FY16 nearly doubled</li> </ul> <p><b>Complete (achieved over 1,800 trees planted), but need to continue to increase resident, HOA, and organization tree plantings</b></p>
	2. Encourage the replacement of trees removed from residential properties.	Mid-Term	<ul style="list-style-type: none"> <li>- Work with Chesapeake Bay Trust to receive marketing grant for tree plantings/replacements in Bowie</li> <li>- \$12,500 grant received in 2016 to support the creation of a marketing campaign</li> </ul> <p><b>In Progress</b></p>
	3. Publicize local tree planting grants available for businesses, churches, and local organizations.	Short-Term	<ul style="list-style-type: none"> <li>- Implemented</li> <li>- Provided Tree ReLeaf information to Northridge HOA in 2015 and to Princeton Square Townhouses HOA</li> <li>- Included information about Tree ReLeaf program in Green Bowie e-newsletter</li> <li>- No participants from Bowie yet in Tree ReLeaf as of June 2016</li> </ul> <p><b>Mostly Completed</b></p>

