

FAIRFAX COUNTY, VIRGINIA
Environmental Improvement Program (EIP)
Section B: Summary of Actions
Fiscal Year 2014

Prepared September 2012

NOTE: EACH EIP ACTION IS ASSIGNED A UNIQUE IDENTIFICATION NUMBER, BEGINNING WITH “EIP14” TO REFLECT THE FISCAL YEAR 2014 ORIENTATION OF THIS DOCUMENT. THE “EIP14” IS FOLLOWED BY A TWO-LETTER ABBREVIATION FOR THE THEME AREA UNDER WHICH THE ACTION IS LISTED (E.G., “GL” FOR “GROWTH AND LAND USE”). THE THEME DESIGNATION “GL” IS FOLLOWED BY A UNIQUE FISCAL YEAR IDENTIFICATION NUMBER BEGINNING WITH “07” TO INDICATE THE YEAR IN WHICH THE ACTION WAS FIRST INTRODUCED. THE FISCAL YEAR IDENTIFICATION NUMBER IS THEN FOLLOWED BY A UNIQUE ACTION NUMBER TO IDENTIFY THE ACTION IN THAT FISCAL YEAR. FINALLY, FOR EACH THEME, ACTIONS ARE IDENTIFIED AS BEING EITHER COMPLETED (CATEGORY A), UNDER WAY (CATEGORY B), OR NEW (CATEGORY C). ACTIONS THAT WERE COMPLETED IN THE PREVIOUS FISCAL YEAR EIP ARE SHOWN IN APPENDIX 3.

TWO EXAMPLES SHOWN BELOW ARE USED TO ILLUSTRATE THE NUMBERING SYSTEM. THE FIRST EXAMPLE SHOWS AN ONGOING AIR QUALITY AND TRANSPORTATION ACTION THAT WAS FIRST INTRODUCED IN THE FISCAL YEAR 2007 EIP (EIP07) AND CONTINUES TO BE ONGOING IN EIP13:

EIP14-AQ07-03(B): Ridesources Program

THE SECOND EXAMPLE SHOWS AN ENVIRONMENTAL STEWARDSHIP ACTION THAT WAS FIRST INTRODUCED IN EIP09 AND HAS NOT YET BEEN STARTED:

EIP14-ES09-15(C): Government Center Energy Project

I. GROWTH AND LAND USE (GL)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
GL-A. Completed Actions				
GL07-02(A): PRM Zoning District	District established in 2001; there are now 20 PRM Districts in the county. Consider adding vehicle sales in the PRM District as a special exception use. —Currently on the Priority 2 Zoning Ordinance Amendment Work Program	Existing staff resources	N/A	N/A
GL12-01(A): Evaluation of Implications of Plan Amendments	State of the Plan published in May 2012. This evaluation and future Plan monitoring efforts will inform recommendations about the process by which Plan amendments are considered. This effort, entitled “Fairfax Forward” is underway with recommendations anticipated at the end of 2012.	The State of the Plan was produced using existing staff resources.	Resource needs for future planning efforts TBD	N/A

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GL-B. Actions Underway				
GL07-03(B): Area Plan Amendments and Subsequent Rezoning Supporting Transit-Oriented Development and the Provision of Housing in Employment Centers	Ongoing implementation—e.g., Area Plans Review process; Plan amendments per special studies (e.g., Tysons Corner, Annandale, Baileys Crossroads; Franconia-Springfield; Lake Anne Village Center); special studies underway; rezoning approvals	Annual cost for implementation represents a considerable portion of DPZ’s annual budget. Grant funds are being used for BRAC coordination efforts	No additional funds needed	N/A
GL07-04(B): Planned Development District Zoning Ordinance Amendment (tree preservation and open space issues)	On Priority2 list of the 2012 Zoning Ordinance Amendment Work Program	Existing staff resources	N/A	N/A
GL07-06(B): Pedestrian-Oriented Neighborhood Commerce: Plan Implementation	Continued efforts to implement and refine the Plan are anticipated	Part of the broader funding per GL07-03(B).	See GL07-03(B)	N/A
GL07-07(B): Adequate Infrastructure Legislation	County support for legislation in the past; efforts anticipated to continue	Existing staff resources	N/A	N/A
GL07-08(B): Review of Federal NEPA Reports and State Environmental Impact Reports	Ongoing	Existing staff resources, but reviews are sometimes extensive	N/A	N/A

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<p>GL07-09(B): Future Planned Development District Zoning Ordinance Amendment (expand number of uses allowed, as well as densities/intensities)</p>	<p>Split into two amendments: An amendment establishing a new Planned Tysons Corner Urban District was adopted by the Board on June 22, 2010. The new zoning district and the concurrently adopted amendments to the Comprehensive Plan allow for higher densities and intensities and implement the Tysons Comprehensive Plan recommendations. A second amendment, expected to be brought forward for consideration by the Board in late 2012/early 2013, will have a broader focus (PDC and PRM Districts).</p>	<p>Existing staff resources</p>	<p>N/A</p>	<p>N/A</p>
<p>GL07-10(B): Maintaining Neighborhood Character Zoning Ordinance Amendment (formerly Residential Compatibility Zoning Ordinance Amendment)</p>	<p>Amendment on Priority 2 list of the 2012 ZO Amendment Work Program. Amendment requiring that the grade used for the purposes of determining single family detached dwelling building height be the lower of the pre-existing or post development ground level adjacent to the building, whichever is lower, was adopted by the Board in September 2009. Staff reported on effectiveness of this amendment in January 2011.</p>	<p>Existing staff resources</p>	<p>N/A</p>	<p>N/A</p>

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GL08-01(B): Review Zoning Ordinance Parking Requirements in Transit-Oriented Developments	Consultant study on the application and effects of TDM policies has been completed. Zoning Ordinance Amendment to consider parking maximums and reduced minimum parking requirements for TOD areas is on the Priority 1 list of the 2012 ZO Amendment Work Program. It is anticipated that this will be addressed in conjunction with a PDC & PRM Districts ZO Amendment that is tentatively scheduled for public hearing in late 2012/early 2013.	ZO Amendment and related follow-up training and education to use existing staff resources	N/A	N/A
GL08-05(B): Update the County's Planimetric Data Layer	The planimetric data are being updated for ¼ of the county at a time. The first two quadrants (SE and NE) have been completed and completion of the third (NW) was imminent at the time of preparation of this document. The fourth quadrant (SW) should be completed by January 2013.	Funds for one round of updates for all four quadrants have been approved.	An estimated \$350,000 per year is needed for a continual update of the county on a 4-year cycle.	N/A

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GL08-06(B): Mapping of Fairfax County’s Vegetation Resources	Mapping using 4-band imagery was not successful. Enhanced, 8-band imagery has been acquired. Success in the ability to use this imagery to delineate individual species will be evaluated; if this effort succeeds, community-level mapping using this imagery can be considered.	Enhanced imagery has been acquired.	TBD based on results of species delineation using 8-band imagery.	N/A
GL08-12(B): Consider Amending Article 13 of the Zoning Ordinance (Landscaping and Screening)	The Tree Conservation Ordinance and associated amendments (adopted in October 2008) partially address this recommendation. A comprehensive review of landscaping and screening provisions of the Zoning Ordinance is on the Priority 2 list of the 2012 Zoning Ordinance Amendment Work Program.	Existing staff resources	N/A	N/A
GL08-13(B): Support for Regional Land Use and Related Transportation Planning Initiatives	Ongoing – County staff provides support for a number of regional land use planning initiatives.	Existing staff resources	N/A	N/A

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<p>GL09-01(B): Consideration of Green Building Incentives for Private Sector Development</p>	<p>A Va. Constitutional amendment setting the stage for enabling legislation allowing property tax exemptions for green buildings was continued to 2011 in a House of Delegates committee, effectively starting the constitutional amendment process over again. Local consideration of this idea can be considered further if this effort is eventually successful and if enabling legislation is enacted.</p> <p>Property owners can qualify for a property tax exemption for the installation of solar energy equipment pursuant to §58.1-3661 of the Code of Virginia.</p> <p>The county’s site plan and building plan review processes provide for preferential timing of review for “green” plans. In addition, permit fees are waived for the installation of solar energy equipment.</p> <p>The Chairman’s Private Sector Energy Task Force may have recommendations for consideration.</p>	<p>Existing staff resources, but tax incentives would have revenue implications</p>	<p>N/A</p>	<p>N/A</p>

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GL09-04(B): Tree Preservation and Canopy Replacement During the Development of County Facilities	Discussed in 2010 by a county staff workgroup, with recommendations presented to the BOS Environmental Committee in March 2011. Implementation of recommended practices and policies anticipated by the end of CY 2013.	Existing staff resources used in the review	None, but additional costs may be associated with new facilities	N/A
GL 14-01(B): Tysons Noise Study	An area-wide study of transportation-generated noise (existing and projected) in the Tysons Corner Urban Center. The study results may cause there to be a reevaluation of highway noise policy.	A contract with a limit of \$50,000 has been awarded	None anticipated.	N/A
GL 14-02(B): Development of an Environmental Quality Corridor Commitments Data Layer	DPZ has recently initiated development of a GIS data layer identifying EQC boundaries from approved zoning cases. A DPZ intern added to the data layer EQC commitments from zoning applications approved since 2002; continuation of this effort would be needed to complete this data layer.	Funding for DPZ's intern was provided from the agency's existing budget	Between \$0 and \$34,000	I

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GL-C. New Actions				
GL09-02(C): Review Effectiveness of Agricultural and Forestal District Program in Preserving and Managing Sensitive Lands	Interagency coordination would be needed to identify possible changes to the A&F District process; follow-up with A&F District Advisory Committee would be anticipated.	Existing staff resources for initial coordination. Follow-up TBD	N/A	N/A
GL09-03(C): Strengthened Zoning Case Submission Requirements: Preliminary Utility Plan	On the Priority 2 list of the 2012 Zoning Ordinance Amendment Work Program.	Existing staff resources	N/A	N/A
GL09-05(C): Development of a County Green Building Program Through the Establishment of a Green Building Coordinator Position	It is recommended that the Green Building Coordinator position be housed within the County Executive's Office in order to ensure an appropriate level of oversight and authority for interagency coordination. Recommended grade is S-31.	Not funded	A total first-year cost of \$130,450 is needed to fund position at mid-point of grade.	I

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II. AIR QUALITY AND TRANSPORTATION (AQ)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
AQ-A. Completed Actions				
NONE				
AQ-B. Actions Underway				
AQ07-02(B): Employer Services Program	Initiated in 1997 to assist employers within Fairfax County to establish on-site Employee Transportation Projects to reduce single occupancy vehicle travel. A component of the regional Transportation Emissions Reduction Measures.	\$2,404,250	\$196,530 from VDOT and DOT staff support	I
AQ07-03(B): Ridesources Program	This program will continue at its current level, funded annually through a Virginia Department of Rail and Public Transportation (VDRPT) grant, local matching funds and supported by DOT Staff.	\$2,300,000	\$700,000 annually (\$560K VDRPT grant; \$140K in county sources)	I
AQ07-04(B): Transportation Benefits	This program received funding in FY 2009 to expand countywide for all County employees and increased the monthly allocation to \$115.00. Since FY 2010 the monthly allocation has been a maximum of \$120.00 to each participant. Funding level reflects the amount required for the average number of participants.	\$740,000	Up to \$300,000 annually in DOT budget, and DOT staff support	I
AQ07-05(B): Residential Traffic Administration Program	Through FY 12, Board of Supervisors approved 93 traffic calming actions on residential roads. * Update: FY 2011 Carryover funds of \$250,000 approved by the BOS.	\$1.2 million	\$300,000 annually and DOT staff support	N/A

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AQ07-07(B): Priority Bus Stop Improvement Program	The Bus Stop Inventory and Safety Study identified 344 priority bus stops that require safety and accessibility improvements. There are 156 bus stop improvements in various phases. 113 improvements are completed.	\$10.25 million	\$16.65 million	I
AQ07-08(B): Richmond Highway Public Transportation Initiative	Establishing major and minor transit centers; improving bus stops; establishing additional park-and-ride facilities; and significantly improving pedestrian safety and access to the transit facilities. Implementation of improvements identified in Phase II of the project is scheduled to continue in 2012 with a construction completion date of 2012.	Over \$30.0 million. Funding is derived from a variety of sources	\$25 million is projected to complete the initiative along with DOT Staff Support.	I
AQ07-09(B): Air Quality Outreach	Continue to expand outreach efforts to educate residents and workers in the county to take voluntary actions that will improve the air quality in the region.	\$25,000 FY 2012 and 2013.	\$25,000 annually	I
AQ07-10(B): Dulles Corridor Metrorail	Extend Metrorail from the vicinity of West Falls Church Metrorail Station to Tysons Corner, Dulles Airport and Loudoun County. Phase I (to Wiehle Avenue) construction began March 2009; opening scheduled for late 2013. Phase II projected opening to Dulles is in early 2017.	\$2.64 billion for Phase I. Funding is derived from FTA Grants, Tax District revenue and Toll Road fees	Remaining capital cost for Phase II is \$2.66 billion; provided from a special tax district in the Dulles Corridor and Toll Revenue	N/A
AQ07-11(B): Fleet User Forums	Virginia Clean Cities; MWCOG Electric Vehicle Forum; Technology and Maintenance Council; National Truck Equipment Association; three work groups of the Mid-Atlantic Diesel Collaborative	None	Existing Staff Resources	N/A

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AQ07-14(B): Participation on the Metropolitan Washington Air Quality Committee (MWAQC)	Active participation by Board of Supervisors serving on Committee and county staff	None	Existing Staff Resources	N/A
AQ07-15(B): Evaluation and Purchase of Hybrid Drive and Electric Drive Vehicles	<p>Title updated to reflect inclusion of plug-in hybrid and pure electric drive vehicles. Purchasing production hybrids as scheduled replacements for conventional vehicles where mission and budget permit. Continuing evaluation of one PHEV (Prius conversion). Grant funding received for plug-in hybrid electric school bus, hybrid hydraulic refuse truck, five PHEV sedans and ten hybrid sedans. Seeking grant funding for further hybrid and electric vehicle and infrastructure exploration.</p> <p>* Supplemental funds of \$103,000 was for School bus, \$35,000 was for trash truck and \$238,540 is for electric vehicles through federal Energy Efficiency and Conservation Block grant.</p>	\$238,540 grant funding for hybrid school bus, hybrid trash truck, 5 PHEV and 10 hybrid sedans from Energy Efficiency and Conservation Block Grant.	Seeking further grant funding for electric and hybrid exploration. Cost increment of \$11-24K each for PHEV and hybrid sedans. Incremental cost is \$103K for school bus; \$35K for trash truck. All are EECEBG funded.	N/A
AQ07-16(B): Support for Reductions in Ozone Transport	Coordination with MWAQC	N/A	Existing Staff Resources	N/A
AQ07-18(B): Board of Supervisors Four-Year Transportation Plan	The Plan is multi-modal and includes projects for major roadways, pedestrian and spot improvements, and transit. In addition to the 2007 Transportation Bond Projects, this plan also includes a number of projects funded through partnerships with state, federal, and regional agencies. Burke Centre VRE Station parking garage opened in the summer of 2008. Over sixty projects have been completed including the West Ox Bus Operation Center.	\$937 million in county general obligation (G.O.) and DOT staff support.	The Four Year Plan is funded provided the FY 2014 Bonds pass.	I

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AQ07-20(B): Fairfax County Transit Program	Service enhancements through implementation of new technologies, customer care initiatives and implementation of bus service such as “Richmond Highway Express” (REX), as well as funding support for Metro and VRE system improvements and CUE bus service.	Ongoing	\$74 million for Fairfax Connector, \$98.3 million for Metrobus and Metrorail service, and \$5 million for VRE commuter rail service. All annual costs.	I
AQ07-23(B): Periodic Assessment of Alternative Fuel Vehicle Technology	First edition completed summer of 2006.	None	No new staff required.	N/A
AQ08-01(A): Regional Urban Forestry SIP Working Group	This group of state and local urban forestry officials from Virginia, Maryland and D.C. has been organized by MWCOG and has been tasked to identify a set of specific urban forestry practices that can be included as a credited measure in future Metropolitan Washington Air Quality Plans.	None	Action complete, but follow-up actions will require existing staff resources now and may need future funding.	N/A
AQ08-04(B): Fire Equipment Diesel Exhaust Retrofit	Continuation of Diesel Retrofit Program. On hold pending identification of more cost effective measures than are currently available.	None	Estimated \$300,000	II

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AQ08-05(B): Tree Planting at Governmental Building and Parking Facilities	This project shows several ways canopy shade can reduce ozone formation and energy usage. It provides educational signs to encourage adoption at private facilities. Adds about 500 trees and 20 signs to governmental buildings and parking lots. As of spring 2012, 394 trees have been planted on Fairfax County Government property toward this goal.	\$170,000	\$300,000	I
AQ08-06(B): Telework Initiative	The Board of Supervisors and the County Executive continue to champion telework. The goal is to continue to increase the number of Fairfax County employees who telework with a focus on Continuity of Operations.	Funds are contained in the departmental budgets of DIT, DHR, and DOT	Incorporated in departmental budgets	N/A
AQ09-01(B): Transportation Funding Bill	The Northern Virginia transportation network is multi-modal, consisting of roads, transit, bicycle, pedestrian networks and two major airports. Within the next twenty five years funding from fees and taxes will provide increased road and transit capacity and better connections between activity centers, use technology for more efficient system operations, maintain the existing system for maximum performance and provide a multi-modal solution.	\$50 million per year through local fees and taxes. \$600 million from HB 2527 over 3 years	\$50 million annually (from newly implemented commercial real estate tax)	I
AQ09-02(B): Comprehensive Bicycle Initiative	Enhances bicycling as a commuter option. Addresses bike lanes and route maps, bike racks and lockers serving Fairfax Connector users, other bike-related facilities and outreach.	\$1,281,000 has been made available from various sources.	None	N/A

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AQ10-01(B): Columbia Pike Rail Initiative	Advanced streetcar transit system connecting the Pentagon/Pentagon City/Crystal City area with Bailey's Crossroads.	\$18 million	Fairfax County's obligation is expected to be \$32M of the \$160M total capital cost and \$1M of the \$5M annual operating cost	I
AQ10-02(B): Reduce fuel consumption in heavy duty vehicles	Explore a series of measures to reduce idling and improve mechanical efficiencies in areas such as rolling and aerodynamic resistance and transmission shift scheduling.	\$27,500	Exploration with existing staff time. Cost to implement measures will be among the selection criteria.	N/A
AQ11-01(B): Piezo Electric Generator Pilot Program	Parasitic energy harvesting demonstration to be installed in a walkway near a Tysons Corner Metro station.	None	\$10,000	N/A
AQ11-02(B): School Bus SCR Retrofit	All 32 retrofits are installed. Analysis of program to begin August 2011.	\$1.3M EPA grant and partner leveraged resources	None. Funded by federal grant.	N/A

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AQ12-01(B): Local and Regional Preparation for Commercially Available Plug-in Vehicles	This action prepares county staff for introduction of plug-in vehicles (electric and plug-in hybrid electric) in the private sector in Fairfax County. Develops and implements a program for updating and establishing proposed county policies regarding charging infrastructure and public information.	None	None	N/A
AQ12-02(B): Fleet Infrastructure Preparation for Plug-in Vehicles	This action expedites introduction of plug-in vehicles (electric and plug-in hybrid electric) in the Fairfax County and Fairfax County Public Schools vehicle fleets.	None	\$100K	I
AQ-C. New Actions				
AQ07-22(C): Fuel Economy and Emissions Standards	Develop a federal advocacy strategy, within the context of MWAQC, to increase fuel economy and emission standards for cars and light trucks. Draft plan is complete.	None	Existing staff resources	N/A
AQ10-03(C): Purchase of Wind Power (Title changed from: Continuing Purchase of Wind Power – Action no longer continued)	3-year contract to purchase at least 10% of county's electricity	0	\$783,000	II

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III. WATER QUALITY (WQ)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ-A. Completed Actions				
WQ07-08(A): Soil Survey	The mapping and data collection for the soil survey update have been completed and have undergone quality control and assurance processes, as well as scanning and digitization by the USDA-NRCS. The new survey is available on NRCS and county website. Changes to the county’s Public Facilities Manual and County Code have been completed. The BOS officially accepted and adopted the new soil survey in June 2011. The expertise of a soil scientist, familiar with the county’s soils and the new soil survey continues to be needed.	\$755K for the 5-year soil survey update project. Since FY 2008, continuing funding for a soil scientist to provide ongoing soils expertise.	Current annual funding for NVSWCD includes support for one soil scientist	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ-B. Actions Underway				
WQ07-02(B): Stormwater Management Implementation Plan (Ongoing implementation of the stormwater program.)	The county continued its capital improvement and infrastructure reinvestment strategies in operations, dam safety and facility rehabilitation; stormwater regulatory program; conveyance systems; emergency and flood response; and streams and water quality. In FY 2011, 45 stormwater management projects were completed. In FY 2010, a Stormwater Service District was established by the BOS. The service district rate increased from one and one half penny to two pennies effective July 1, 2012.	\$28M(FY 2011 adopted budget)	The total funding that ultimately will be needed for this action is too great to accomplish in a single budget year. A multi-year approach is needed to meet regulatory requirements, public safety, infrastructure needs, and resident concerns.	I
WQ07-03(B): Stormwater Retrofits (Identification and implementation of retrofits to existing stormwater facilities)	In calendar year 2011, the county retrofitted 20 stormwater management projects to provide enhanced water quality and/or reduce storm drainage impacts. The projects included water quality retrofits, flood mitigations, detention pond retrofits, outfall restoration/stabilization projects, and the installation of BMP plates and trash racks at multiple locations.	Funding is included in the Capital Improvement Work Plan	The total funding that ultimately will be needed for this action is too great to accomplish in a single budget year. A multi-year approach should be considered to meet regulatory requirements, public safety, infrastructure needs, and resident concerns.	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>WQ07-05(B): Stream Stabilization and Restoration Projects (Implementation of projects to restore and/or stabilize stream conditions that improve the overall health of the natural system.)</p>	<p>In 2011, the county completed five stream stabilization and restoration projects with the assistance of a number of non-profit organizations and volunteers. Environmental consulting firms have been engaged through a multi-year contract to assist with the design of these types of projects. In addition, construction contracts with qualified contractors are in place and restoration work in progress in various locations throughout the county.</p>	<p>Funding is included in the Capital Improvement Spending Plan</p>	<p>The total funding that ultimately will be needed for this action is too great to accomplish in a single budget year. A multi-year approach should be considered to meet regulatory requirements, public safety, infrastructure needs, and resident concerns.</p>	<p>I</p>
<p>WQ07-09(B): Soil and Water Quality Conservation Planning for Horse Operations and Other Land in Agriculture</p>	<p>In 2011, NVSWCD prepared Soil and Water Quality Conservation Plans for 27 parcels, comprising 443 acres of land, which included 10,655 linear feet of vegetated buffers for Chesapeake Bay Resource Protection Areas (RPA). Technical assistance was provided to the County's Code Enforcement Division and three landowners by preparing conservation plans for properties cited for county code violations.</p>	<p>Resources are budgeted in the NCSWCD annual work plan</p>	<p>Current funding levels are adequate to support this initiative</p>	<p>N/A</p>

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ07-10(B): Development of a Stormwater Ordinance and Comprehensive Review of the County’s Code and Zoning Requirements (Identify regulatory impediments and policy conflicts regarding better site design principles)	Development of a stormwater ordinance began in FY 2012. The comprehensive review for better site design principles has not been initiated; various approaches could be pursued.	Funding for stormwater ordinance development is included in DPZ, DPWES and DOT operating budgets	For the better site design review \$100,000 to \$250,000 depending on approach chosen	I Development of stormwater ordinance III Review for better site design principles
WQ08-03(B): Stormwater Management Review Process	DPWES has increased its involvement in the review of stormwater management information submitted during the zoning process, resulting from the 2004 BOS amendment requiring additional stormwater details for rezoning, special exception (SE), and special permit (SP) applications. NVSWCD reviews have also facilitated improved stormwater management approaches.	Performed by existing staff	None	N/A
WQ08-04(B): Low Impact Development Initiatives	In 2011, DPWES, FCPA, nonprofit organizations and individual volunteers contributed to the design and implementation of seven projects that incorporate one or more LID practices.	FCPA LIDs:\$150K Other LIDs: Funded in Stormwater Management Implementation Plan	This effort is funded by existing Stormwater Management Implementation Plan funding	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ08-05(B): Benchmarking Watershed Tree Cover Levels	This effort has been funded and tree cover analysis using high resolution satellite imagery is underway, with completion of all watersheds scheduled for June 2012.	Funding is included in the UFM operating budget	Current funding levels are adequate to complete the project as planned. However, there is a future cost, estimated at \$21,000, for updated imagery	N/A
WQ08-06(B): Stream Flow Gauge Monitoring	In 2007, the county partnered with the US Geological Survey (USGS) to install and operate a long-term water resources monitoring network. Both dry and wet weather (storm event) nutrient data are being collected at 4 automated, continuous USGS water gauging stations and ten less intensely (manually) monitored sites throughout the county. The data collected is publicly available online at a USGS web site. This ongoing, long-term monitoring effort will describe trends in water quality and quantity and provide important information on the effectiveness of countywide watershed improvement projects being implemented out of the Watershed Management Plans and the Stormwater Management (STW) program.	\$1,129K	Current funding levels are adequate to support this initiative	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ08-07(B): MS4 Permit Application	The county is operating under the five-year MS4 permit issued in 2002, which has been administratively continued by DCR. DCR submitted a fifth preliminary draft of a revised permit to the county in February 2011. The FCPS MS4 responsibilities are being incorporated into the county's MS4 Permit.	\$510K	Funding levels are contingent upon final permit and regulatory requirements.	I
WQ08-09(B): Establishing Tree Cover Goals for Watersheds	Benchmarking is underway to quantify tree cover within the county's 30 watersheds, with tree cover goals expected to begin to be generated by CY 2013.	Funding is included in the UFM operating budget	None	N/A
WQ-C. New Actions				
WQ07-12(C): Review of Standards and Guidelines for SP, SE, and Public Uses in the R-C District	This item is included on the Priority 1 Zoning Ordinance Amendment Work Program for 2012	-0-	TBD, but substantial staff resources (significant commitment of two to four planner positions) will be needed	I
WQ10-01(C): Riparian Buffer Maintenance	This new project is to maintain and supplement 35 riparian buffer restoration projects on parkland throughout the county. Maintenance activities may include watering, invasive species removal, amendment of plantings with additional shrub, herbaceous and trees as needed, expansion of buffer projects to adjacent areas and monitoring of restoration projects.	-0-	\$55,000 for first year	I

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IV. SOLID WASTE (SW)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW-A. Completed Actions				
SW07-03(A): Purchase Environmentally Preferable Products and Services. Dispose of Surplus Property in an Environmentally Responsible Manner.	This action was combined with SW07-04(B): Increase County Use of Recycled Products due to the considerable overlap in general intent. County Procedural Memorandum (PM) 143 updated - SWMP provided technical support to DPSM toward development of such a program. County Procedural Memorandum (PM) 144 also updated. PM 12-21, implementing the EPP, went into effect and the program is managed by DPSM.	NA	\$15,000 annually	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW-B. Actions Under Way				
SW07-05(B): Remote HHW Collection Events	No new funding since July 1, 2009. Previously funded five events in FY2008, two events in 2009, none in 2010 and three events in 2011. Participation in these events continued to grow, with costs directly linked to the number of residents using the program.	Funding source not identified	Future events anticipated to cost \$125,000 per year for five events.	I
SW07-06(B): Develop Long-Term Plans to Manage Resident-Generated Electronic Waste	Revised plan to include monthly “Electric Sundays” at the I-66 Transfer Station and the I-95 disposal complex. The third year of I-66 events is in progress, with participation exceeding anticipated levels. Costs of the program are directly linked to the number of residents using the service.	Funding source not identified	\$100,000 annually for Electric Sundays	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW08-01(B): Maximize Energy Recovery from LFG Resources	<p>Construction of the necessary infrastructure to use landfill gas from the I-66 Complex (closed landfill) as a source of renewable energy at the Transfer Station is complete. A total of \$300,000 was funded to complete the DVS West Ox garage project in two separate increments of \$150,000 each. That project was completed in Oct. 2008.</p> <p>The LFG space heat project at the West Ox Bus Operations Center began operating in the Fall of 2011.</p>	An additional \$150k was requested and approved in the FY2010 budget to investigate the feasibility to expand the project to the new West Ox Bus Operations Center.	Additional 50k needed to support operations and maintenance at the Bus Operations Center expansion project.	I
SW08-02(B): WWTP Effluent Reuse at Covanta E/RRF from Noman Cole WWTP	Project construction is completed, and the equipment, controls, and pipeline are undergoing testing and shakedown. The project is anticipated to commence commercial operations in the Summer of 2012.	NA	Project will be funded through water user fees, while still saving E/RRF at least 25% over potable water costs.	NA

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW09-01(B): Support Trash-Free Potomac Watershed Initiative	This Program, managed by the Alice Ferguson Foundation, is a regional program to reduce litter and increase recycling, education and awareness of solid waste issues in the Watershed. The Program commitments are summarized in the Potomac Watershed Trash Treaty to which the Board is a signatory. Support to consist of a donation.	\$25K from Virginia Litter Grant	\$50,000	I
SW09-02(B): Renewable Energy Demonstration Park	Initial feasibility study to identify a suite of modest renewable energy projects that can be demonstrated as technically and economically feasible. Projects to be installed at the I-95 Landfill Complex as part of the continued productive use of the property. Efforts will initially focus on identifying technologies and scope for one or two simple projects that can be constructed at the landfill within the next 6-12 months. Existing/completed renewable energy projects at the facility will be considered Phase I of the Demonstration. The first new project, Phase II, is underway with the installation of a solar water heater at the truck driver's restroom at I-95. Future projects will likely include a windmill to extract groundwater, and a solar panel array.	Approximately \$50,000 in equipment and staff time to install the solar-powered pond aerator. Note that Covanta paid for the water heater.	\$50,000 to complete a detailed feasibility study and overall Park concept/ design. Further start-up funding may be necessary to complete specific projects in later Phases.	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW-C. New Actions				
SW10-01(C): Litter Management System Efficiency Enhancements	A small project intended to enhance existing solid waste management system efficiency. It is anticipated that this enhancement will reduce costs, air pollutant/GHG emissions, and otherwise reduce the environmental footprint of the county's waste management operation. Specific technology to be deployed is a battery of solar-powered self-compacting litter bins to be deployed at one or more county facilities still TBD.	N/A	\$5,000 each	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>SW14-01(C): Dispose the County’s Surplus Property in an Environmentally Responsible Manner to Include Development of an Electronic Waste Recycling Program.</p>	<p>DPSM has oversight of surplus property disposal and has established a “toolbox” of responsible end-of-life strategies. \$3.2 million in revenue was generated in FY2011 and waste was significantly reduced. Recent waste minimization and revenue maximization enhancements: An e-waste recycling program was established through State contract with Creative Recycling Systems. Realized a \$60K annual improvement over prior program. FCPS recently adopted same program (their e-waste was not previously recycled). Contract with consignment auctioneer established, online reuse program launched. Employees can now shop for surplus items from their desks. DPSM delivers at no cost. Planned enhancements: <i>Producer Responsibility</i> clauses added to new contracts. Contractors will be required to take back certain electronics and packaging.</p>	<p>Existing staff resources</p>	<p>None. Generated \$3.2 Million in FY11.</p>	<p>I</p>

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V. PARKS, TRAILS, AND OPEN SPACE (PT)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
PT-A. Completed Actions				
None				
PT-B. Actions Underway				
PT07-03(B): Pedestrian Improvements in the Four Year Transportation Plan	Underway	\$15,000,000	N/A	N/A
PT07-06(B): Upgrades for the Cross County Trail	After six years of work the Cross County Trail was completed in December 2005. Trail improvements have been made each year since, including re-routed sections, additional and improved stream crossings, improved and relocated road crossings, additional signs and upgrades to trail surfacing.	See EIP14-PT07-07	In future years, additional funding in the amount of \$2,350,000 will be needed for improvements to the existing trail.	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>PT07-07(B): Park Authority Trail System The Park Authority trail system continues to be developed through the park bond program and through volunteer efforts.</p>	Current and future efforts include evaluating missing links and providing needed trail network connections.	\$8,658,240	\$48,000,000	I
<p>PT07-09(B): FCPA Urban Parks</p>	Urban Parks are a subset of local-serving parkland of which there is a deficiency across the county, in particular in many of the urbanizing areas.	\$1,000,000 (approximate)	\$10,000,000 plus or \$24,000,000	II
<p>PT07-10(B): Parks and Recreation Needs Assessment Process</p> <p>Implementation of the Needs Assessment is ongoing through the Capital Improvement Program, Comprehensive Plan Amendments, and Long Range Park Planning.</p>	The Needs Assessment process should be updated every 5-7 years in order to capitalize on changes in the county demographics as well as coincide with funding cycles. Update to the Needs Assessment is planned in 2012 with a planned completion in 2014.		TBD/\$300,000+	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>PT07-11(B): Parks and Recreation Needs Assessment Implementation The final product of the Park Authority Needs Assessment Project was the development of a 10-Year Needs-Based Capital Improvement Plan. This Plan outlines the cost of meeting the county's park and recreation deficiencies presently and projected through 2013.</p>	<p>A portion of the needs will be satisfied through the acquisition and build out of the current and upcoming Capital Improvement Plans. An update to the Needs Assessment began in 2012.</p>	<p>\$155,000,000 (includes land acquisition)</p>	<p>\$93,258,403 (not including land acquisition)</p>	<p>I</p>
<p>PT07-12(B): Parkland Acquisition The Park Authority has an ongoing program for acquisition of property for open space.</p>	<p>In 2005 the Board of Supervisors (BOS) challenged the Park Authority to acquire 10% of the land in the county. Current land holdings account for 9.2% of the county.</p>	<p>\$37,200,000</p>	<p>\$57,200,000</p>	<p>I</p>
<p>PT07-13(B): Open Space Easements/NVCT Partnership</p>	<p>Ongoing</p>	<p>\$227,753 in FY 2013</p>	<p>Future Cost: \$227,753 + CPI (annual cost)</p>	<p>N/A</p>
<p>PT07-14(B): Park Authority Conservation Easement Initiatives</p>	<p>Ongoing \$10,000,000 would help establish a more aggressive Park Authority conservation easement program.</p>	<p>\$2,200,000 (remaining in 2008 bond for all land acquisition)</p>	<p>\$10,000,000</p>	<p>II</p>

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>PT07-17(B): Park Authority Natural Resource Management Plan Implementation--Encroachment Enforcement</p>	<p>This enhanced program will focus on encroachment detection, enforcement and elimination on parkland. A dedicated encroachment team will not only mitigate impacts from current encroachments, but also educate residents on how to be good park neighbors.</p>	<p>N/A</p>	<p>\$250,000 needed annually</p>	<p>I</p>
<p>PT08-01(B): Park Natural Resource Management The Park Authority has developed an agency-wide Natural Resource Management Plan (NRMP), which was approved by the Park Authority Board in January 2004. The plan outlines strategies, actions and policy changes needed to appropriately plan, develop and manage parkland. The Park Authority is now at a critical stage in which we cannot continue to make significant progress without additional staff and funding.</p>	<p>Nine years into implementation, the Park Authority is doing what it can with existing resources - making changes to policy and practices, educating staff and residents and asking all Fairfax County Park Authority staff to help where they can.</p> <p>The county's natural areas are rapidly degrading and need management. The intent of the Natural Resource Management Plan – to manage natural resources -- cannot occur without additional funding and staff.</p>	<p>Existing Resources</p>	<p>Phase 1: \$650,000 per year including six new staff positions. \$200,000 to \$2,000,000 needed for forest demonstration projects. Full program needs \$8,000,000+ per year, including \$4,500,000 per year for an invasive plant removal program.</p>	<p>I</p>

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PT08-03(B): Park Information Systems This project will expand the use of Geographic Information Systems (GIS) for Park Authority natural resource management.	The project is an ecological modeling proof of concept to show what modeling options are available, how well they work and how much they would cost. If implemented, the model could help both the Park Authority and the county make more informed land use decisions.	\$180,000	~\$2,000,000 to test and implement the model.	I
PT09-01(B). Great Parks, Great Communities	This effort addressed the need for a comprehensive and integrated approach to planning for parkland acquisition, resource protection and development activities over a ten year period. The comprehensive Great Parks, Great Communities Plan is used as a guide for park planning.	N/A	N/A	N/A
PT09-03(B). Synthetic Turf Athletic Fields	The Park Authority develops synthetic turf fields to increase usability and to reduce maintenance and environmental impacts.	\$16,700,000+	~\$825,000 per field conversion	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
PT-C. New Actions				
<p>PT07-21(C): Park Authority Natural Resource Management Plan Implementation--Boundary Survey and Marking</p>	<p>This program would survey and permanently mark park boundaries. This would make park property lines clear and help to prevent misunderstandings about property lines and discourage encroachments and their negative impacts.</p>	<p>N/A</p>	<p>\$250,000 needed annually</p>	<p>I</p>
<p>PT08-05(C): Sully Woodlands Interpretive Center and Resource Management The Park Authority has developed a regional master plan for all parks within the boundaries of the Cub Run and Bull Run watersheds. An interpretive center and resource management activities are recommended in the plan.</p>	<p>Natural resource management research, plans and activities will need to occur to maintain the integrity of the natural resources and to continue to protect the Cub Run and Bull Run watersheds.</p>	<p>\$290,000 for a conceptual plan is included in the 2008 park bond.</p>	<p>TBD</p>	<p>I</p>
<p>PT08-06(C): Implementing Natural Landscaping Practices on County Properties Multi-agency effort to implement natural landscaping practices on county properties.</p>	<p>Funding related to 2004/2005 BOS directive to implement a five-year natural landscaping plan to implement techniques that reduce current maintenance practices that can cause harmful environmental impacts and reduce the need and expense of mowing, pruning, edging, and using fertilizers, pesticides, and herbicides</p>	<p>N/A</p>	<p>\$100,000</p>	<p>I</p>

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PT10-01(C): Weather Stations for Efficient Water Use at Golf Courses	This project would allow the installation of a weather station at both Twin Lakes and the Laurel Hill Golf Club. Providing irrigation water in an efficient manner would reduce impacts to the environment by using less water	N/A	\$10,000	I

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VI. ENVIRONMENTAL STEWARDSHIP (ES)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES-A. Completed Actions				
ES11-10 (A) Site Lighting Upgrades for Monomedia Filters at Noman M. Cole Jr. Pollution Control	This project was completed in 2011 by the Noman M. Cole, Jr. Pollution Control Plant. The project was funded by rate-payer funds.	\$42,791 was project cost. \$25,000 was needed for equipment; plant staff performed labor	None	N/A
ES11-11 (A) Mercury Vapor Lighting Replacement at Noman M. Cole Jr. Pollution Control Plant	This project has been completed by the Noman M. Cole, Jr. Pollution Control Plant. The project was funded by rate-payer funds.	\$15,000	None.	N/A
ES-B. Actions Underway				
ES07-02 (B) Volunteer Stream Monitoring Quality assured citizen-based biological and observational monitoring complements DPWES monitoring, provides trend data and flags emerging problems.	NVSWCD provides program management and coordination of volunteers, training, quality assurance, and data management. Program has associated education programs, connects residents to their watersheds, and provides links to other programs and activities. Coordination with DPWES on county stream data reporting. FCPA staff conducts monitoring and supports volunteer efforts.	Staff support is budgeted as part of NVSWCD work plan; assistance from interns and volunteers; supplies through grants. Value of volunteer contributions is over \$36,500.	None	N/A

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<p>ES07-10 (B) Storm Drain Marking – Pollution Prevention Program</p> <p>Adult and youth volunteers carry out neighborhood education programs and place markers on storm drain inlets, to inform communities that pollutants dumped in storm drains pollute local waterways.</p>	<p>NVSWCD provides program management, coordinates with VDOT and guides volunteers as they implement an education program and apply labels on storm drain inlets. DPWES-Stormwater funds markers and glue and assists with program promotion. Annually, volunteers place markers on 3,000 storm drains and educate 16,000 households on average with a “No Dumping” watershed message.</p>	<p>Staff support is part of NVSWCD work plan. DPWES provides \$12-15,000 annually for supplies</p>	<p>None at current level.</p>	<p>N/A</p>
<p>ES08-01 (B) Education and Outreach Programs and Activities</p> <p>A broad array of programs and activities inform the public about watershed issues and promote environmentally responsible behaviors and stewardship.</p>	<p>Initiatives include: newsletters, brochures, handbooks and other resource materials; seminars, workshops, walks, and park programs; exhibits, demonstrations, and events; rain barrel programs; websites and email lists; watershed advisory committees; seed collections and seedling programs; technical advice and technical assistance. Many programs involve partnerships.</p>	<p>Budgeted as part of FCPA, NVSWCD, DPWES and other annual work plans.</p>	<p>None.</p>	<p>N/A</p>
<p>ES08-02 (B) Environmental Education Programs Involving Youth</p> <p>Programs, many in partnership with schools, build understanding and respect for natural resources and further environmental knowledge and stewardship among youth.</p>	<p>Hands-on activities take place in schools and parks. Elementary science programs taught in parks promote stewardship and support the school curriculum. Teacher training and coordination with middle school programs help meet Chesapeake Bay goals. High school students monitor streams, recycle, compete in the Envirothon competition, and participate in environmental clubs, community outreach programs and volunteer opportunities. Dozens of Eagle Scout and Golden Circle candidates are mentored in a wide range of environmental projects.</p>	<p>Budgeted as part of FCPA, NVSWCD and DPWES annual work plans.</p>	<p>None</p>	<p>N/A</p>

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<p>ES08-03 (B) Stream and Watershed Cleanup Efforts</p> <p>Volunteer efforts include participation in larger, regional efforts and in local community/ watershed sponsored projects</p>	<p>Volunteer stream and watershed cleanups are conducted in conjunction with the International Coastal Cleanup in the fall, the Alice Ferguson Foundation Potomac River Cleanup in the spring, and throughout the year by ‘Friends of’ groups, Adopt-A-Stream groups and others. Agencies support these efforts by coordinating, publicizing, identifying sites, delivering supplies, participating and facilitating disposal.</p>	<p>Budgeted as part of NVSWCD, FCPA and DPWES annual work plans. Supplies are provided by sponsoring organizations</p>	<p>None</p>	<p>N/A</p>
<p>ES08-04 (B) Support of Citizen-Based Environmental Stewardship Programs and Activities</p> <p>Information and technical advice are provided. Appropriate county services are identified and made available</p>	<p>Friends of groups, civic, community and environmental groups engage in education programs and planting projects, improve habitats, conduct cleanups, plant buffers, monitor streams, and alert county staff to potential environmental problems. These groups receive information, technical advice and problem solving assistance. Training is provided to organizations, such as the Fairfax Chapter of the Virginia Master Naturalist Program. The FCPA and partners are engaged in an effort to achieve a county-wide <i>Community Backyard Habitat</i> designation. The Fairfax County Restoration Project, a public-private partnership sparked by concern about the Beltway Express lanes project in 2008, is dedicated to connecting people and nature through community action.</p>	<p>Staff resources to support these efforts are budgeted as part of the DPWES, NVSWCD and FCPA annual work plans.</p>	<p>None</p>	<p>N/A</p>

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<p>ES08-05 (B) Park Authority Stewardship Education</p> <p>The Park Authority educates both staff and citizens countywide in important stewardship issues, thereby furthering both the County’s commitment to stewardship and the engagement of staff and citizens in practicing good stewardship.</p>	<p>The Park Authority is implementing the stewardship education initiative through a series of brochures and products related to natural resource stewardship. Thirteen brochures and seven Highway Cards have been published to date. In 2007, the Park Authority’s Stewardship Education Team developed media for a storm drain marking initiative in staffed? parks, including a poster, a highway card, buttons for staff to wear and window clings for park entryways. In spring 2008, the Park Authority released a set of non-native invasive plant identification and control cards for 29 of the most commonly found non-native invasive plants in Fairfax County. In 2010, the Park Authority created a series of large, free-standing banners based on themes in the stewardship brochures, which continued to be used in 2011 and 2012.</p>	<p>Existing resources used in FY2004-FY2012</p> <p>Also, carryover funding was received in FY2004 and FY2006</p>	<p>None</p>	<p>N/A</p>

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<p>ES08-06 (B) Invasive Management Projects</p> <p>A Park Authority program to remove and control invasive plants on parkland and to involve citizens in this effort.</p>	<p>The Park Authority continues to sponsor the Invasive Management Area (IMA) volunteer program, as well as other initiatives. Currently, trained leaders have committed to four work-days per year at 42 sites. To date, 4,500 volunteers have contributed 18,000 hours of service during 1,000 workdays. In 2007 and 2008, Invasive Conservation Corps (a summer intern program) conducted invasive removals throughout the county. Since then, individual interns complete map and removal projects. In addition, funds are being used to supplement efforts at staffed sites with equipment and contractor services. A report on non-native invasive plants in Fairfax County was developed by a contractor to include assessment, prioritization (species and locations), a control program and cost estimates for a control program. In June 2010, an Early Detection Rapid Response Volunteer program was launched. More than 200 acres of parkland have been surveyed to identify isolated populations of highly aggressive non-native species. IMA coordinates their removal before they become a big issue. The IMA Volunteer Coordinator position has been converted to a merit position in FY2011.</p>	<p>Funding for FY2005-FY2011 came from existing resources, carryover and EIP funding and grants.</p>	<p>\$200,000 needed annually to maintain the program.</p> <p>Program cannot be continued without funding in FY2014.</p> <p>\$4.5 million per year needed for Park Authority-wide program</p>	<p>I</p>

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<p>ES08-10 (B) Partnering with Non-Profit Tree Planting Groups in Establishing a Countywide Tree Planting Program</p> <p>Program to plant more than 25,000 trees in a 5-year period</p>	<p>This action builds upon the success that has resulted from partnerships formed with non-profit tree planting groups. It complements an existing BOS directive to establish a countywide tree planting program for air quality improvement. It will help to meet the Fairfax County 30-Year Tree Canopy Goal, adopted in June 2007. In FY 2008-2012, Canopy goal partners and non-profits planted an estimated 9,000 trees in each FY. In FY 2009-2012, funding was provided to three non-profits to build organizational capacity in support of a countywide tree planting program.</p>	<p>FY2008 \$50,000 FY2009 \$109,000 FY2010 \$93,350 FY2011 \$88,000 FY2012 \$87,000 FY2013 \$58,000</p>	<p>\$110,000 is needed in 2014</p>	<p>I</p>
<p>ES09-06 (B) Joined Energy Star Challenge</p> <p>The ENERGY STAR Challenge is a national call-to-action to improve the energy efficiency of America’s commercial and industrial buildings by 10 percent or more.</p>	<p>The county tracks energy usage and has a plan for energy improvements, including during capital renewal projects.</p>	<p>Existing FMD staffing will be used.</p>	<p>None</p>	<p>N/A</p>
<p>ES09-08 (B) 30 Year Tree Canopy Goal</p> <p>In 2007 Fairfax County adopted a tree canopy goal of 45%. To reverse anticipated loss and achieve the goal, an increase of 20,400 acres of trees is needed by 2037. This requires that 21,000 trees be planted annually for 30 years</p>	<p>This action is underway with short-term needs identified in ES08-10 (B) and ES08-11 (C). An analysis has been made to determine potential areas for tree planting. Most will need to be planted on private property, making an educational campaign essential for success. The cost to achieve the goal is more than offset by benefits for air pollution removal, carbon sequestration, energy conservation and stormwater management.</p>	<p>Short-term needs identified in ES08-10 (B) and ES08-11 (C)</p>	<p>\$2.6 million over 30 years</p>	<p>I</p>

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ES09-09 (B) Development of an Energy Management Program Through the Establishment of a Countywide Energy Coordinator Position	The county's newly formed Energy Efficiency and Conservation Coordinating Committee is currently performing the role and tasks as were envisioned for the Energy Coordinator. The Energy Coordinator position is currently on hold. In the short term, the EECCC has coordinated the funding of projects using federal EECBG money.	The U.S. Department of Energy awarded the County \$9.6M in EECBG funding in October 2009. Under the terms of the award, all funds must be spent by October 2012.	TBD	I
ES09-10 (B) Energy Outreach Program	A subcommittee of the county's Energy Efficiency and Conservation Coordinating Committee drafted an RFP for the development and implementation of a residential energy education and outreach program. A vendor was selected in November 2011, and this effort is nearing completion. Continuation of the effort would require additional funding. The Environment Facebook page was launched in 2011. A number of energy-related webpages have been added to the county's website, including those addressing green buildings and energy efficiency and conservation. The county's energy outreach webpage also has been developed.	\$421,297 of the county's EECBG award is allocated to the residential energy education and outreach program	\$250,000 to provide all PR support, conduct community-wide non-HOA outreach and manage the whole program for up to 5 civic/citizen associations.	I

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ES09-12 (B) Government Center HVAC Component Replacement	Chillers have been replaced with more efficient and environmentally friendly type. Associated pumps and cooling towers have also been replaced. Kitchen heat recovery equipment also needs replacement. Replace pneumatic VAV boxes with DDC to take full advantage of building automation system.	\$2,200,000 chiller replacement and completed in March 2011.	\$2,200,000 for other items that are not funded	II
ES09-13 (B) Install Energy Management Control Systems in Remaining County Facilities *Implementation has been completed at some facilities, but it will be a long term project to incorporate into all remaining facilities.	RFP needs to be developed to manage the installation of these additional systems and to obtain competitive pricing. In the event that sufficient funding is not adequate for installation in all remaining facilities, installation can be done in phases, or only implemented for select projects with the greatest need and fastest payback. EMCS at Gum Springs Community Center, Lillian Carey and Bailey’s Community Center was funded through EECBG and was installed in FY 2012.	\$720,000 funded by EECBG for three facilities.	\$3,280,000 for all remaining facilities.	I/III*
ES09-14 (B) Increase Energy Conservation Code Compliance	The Building Plan Review (BPR) Division of DPWES Land Development Services has developed and provided training on an Energy Code Compliance Certification/checklist form. A committee has been formed to determine if requirement can be done by plan review or inspections. BPR continues emphasis on insulation and HVAC equipment sizing.	Existing staff will be used	No additional resources are required	N/A
ES10-03 (B) Implement Environmental Management System for Wastewater Management Program	In 2010 Wastewater Management achieved recognition in the Virginia Environmental Excellence Program at the E4 level, the highest level of certification at the state level in the VEEP program.	Existing staff resources and funding	No additional resources are required	N/A

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ES10-06 (B) Maintain Potable Water Savings and Additional Opportunities for Reduction in Potable Water Use at Noman Cole Pollution Control Plant	Reclaimed water is used in many ways, such as for backwashing filters, seal water, wash down, foam controls sprays, generator cooling, air scrubber, polymer makeup, chemical carrier water and onsite irrigation. Staff will continue to seek ways to incorporate plant effluent water into plant processes.	Existing staff resources	N/A	N/A
ES10-07 (B) Establish a Rain Garden at Noman Cole Pollution Control Plant	Staff from Wastewater Management and the Stormwater Division collaborated to design the rain garden and prepare a cost estimate. Installation is planned for summer of 2012.	Existing resources	N/A	N/A
ES10-09 (B) Park Authority Athletic Fields Lighting Improvement	Initiative relates to energy survey conducted in FCPA facilities. Using appropriate energy efficient technology for athletic field lighting could provide better quality of light, less maintenance costs, and better scheduling by switching lights on and off only when needed, and providing the appropriate light levels for different activities. FCPA has several athletic fields and some of these fields are using old lighting systems, which are not very efficient and do not have appropriate control system. Upgrading these systems will reduce energy consumption and energy bills and will reduce CO ₂ emissions to the atmosphere.	None	\$700,000	I

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ES11-04 (B) Wastewater Treatment Division's Participation in the Energyconnect's Demand Response Program	The Wastewater Treatment Division (WTD) staff began active participation in the program for the summer 2009 season and renewed its participation for the summer 2010, 2011 and 2012 seasons. Wastewater Collections Division (WCD) joined the program in 2011. The WTD Operation's and Electrical staff, as well as the WCD staff, are working to develop appropriate curtailment strategies to meet the requirements of the Energyconnect program.	Existing resources	N/A	N/A
ES11-05 (B) Cast-iron and Asphalt Recycling by the Wastewater Collections Division of the Wastewater Management Program	Wastewater Collection Division is recycling 30 tons of asphalt a year which saves approximately \$1,600.	Existing resources	N/A	N/A
ES11-07 (B) Calculate and Validate the Wastewater Collections Division Carbon Footprint	The WCD staff is planning on working with Wastewater Treatment Division (WTD) Plant Operations Branch Manager in order to learn the method for calculating the Carbon Footprint for the WCD per the WRI/WBCSD protocol.	Existing staff resources	N/A	N/A
ES11-08 (B) Establish a Rain Garden at Robert P. McMath Facility	Currently the Wastewater Management Program is in the initial phase of considering the feasibility of the design and installation of a rain garden at the Wastewater Collections Robert P. McMath facility. Staff in the Wastewater Collections Division will work with the Northern Virginia Soil and Water Conservation District to design the structure and prepare a cost estimate for its installation.	Existing staff resources. May require funding if feasible to implement installation of the rain garden	N/A	N/A

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ES11-09 (B) Wastewater Management Program IT Computer Server Virtualization	This project is currently ongoing for the Noman M. Cole, Jr. Pollution Control Plant. The project will be funded by rate-payer funds as they become available.	None	\$837,500 is needed for equipment. WWM IT staff would perform work	I
ES11-13 (B) Installation of Lighting Control Systems at Athletic Fields	The Park Authority has installed programmable lighting control systems at numerous athletic fields to control lighting remotely with a high degree of accuracy. Lighting control systems will be upgraded at 11 more facilities. Though originally budgeted at \$330,000 the lighting was upgraded at 22 athletic fields for about half that amount, or \$161,162. The total combined budget for ES11-13(B) and ES11-14(B) is \$852,609.	\$161,162 EECBG funding	None	N/A
ES11-14 (B) Outdoor Lighting and Control System Retrofits at Park Facilities	Work on ES11-14(8) is underway. The EECBG work consists of outdoor lighting upgrades at numerous parking lots and over 50 tennis or basketball courts. The budget for this work is \$691,447. (\$852,609 - \$161,162 = \$691,447).	\$691,447 EECBG funding	None	N/A

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ES14-01(B): Manage Green Purchasing Program. <i>(formerly SW07-03(B))</i>	Action moved from Solid Waste to Environmental Stewardship due to program's diverse environmental focus. PM 12-21, implementing the Environmental Purchasing Program (EPP), went into effect and is managed by DPSM. The program aims to reduce the operational impact on the environment while saving taxpayer money. Strategically specifying recyclability, energy efficiency, durability, reduced toxicity, etc., during the contracting process allows us to acquire environmental benefits at the lowest cost. Building off prior achievements, FY2013 targets include greening high impact contracts. Funding for an intern program would provide needed research assistance.	Existing staff resources	\$5,000 to fund environmental intern program	I
ES14-02(B): Purchase 30% Recycled Content Copy Paper	County staff consumes 80 million sheets of copy paper annually. Switching from virgin paper to 30% recycled content saves 2,700 trees and reduces GHG emissions by 260,000 lbs. CO ₂ e annually. Cost increase for the paper is small at \$2.93 per carton. In 2011, this change was formalized in the new office supplies contract by blocking virgin paper SKU numbers.	Existing staff resources	None.	NA

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ES14-03(B): Purchase Remanufactured Toner Cartridges	Fairfax County spends \$1.2 million on 15,000 printer cartridges each year. Only 7% are remanufactured. Remanufactured items minimize waste and cost between 10-40% less. Switching would save \$200,000 annually, keep 25,000 lbs. of cartridges from the landfill, avoid using 6,125 gallons of oil to produce new cartridges and increase market demand for recycled products. Sampling programs have been implemented. In 2011, employees tested the remanufactured toner cartridges 1,140 times. Plans are being formulated to block certain SKU numbers.	Existing staff resources	None.	N/A
ES14-04(B): Add Green Clauses to County Contracts	In an effort to shift consideration of environmental impact of the goods and services we buy from opportunistic to systematic, DPSM's Green Purchasing Program will create a series of sustainability clauses to be added to the generalized contract language, including: producer responsibility requirements (packaging, electronics), energy efficiency, recycled paper or electronic media, and double sided printing. Grant-funded graduate student interns will help develop sustainability clauses.	Existing staff and grant resources	N/A	N/A

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ES14-05(B): Publish Green Contracts Catalog	Fairfax County maintains a Green Contract Catalog, a portfolio of contracts containing green attributes. Publishing this catalog for an external audience broadcasts our dual commitment to environmental stewardship and financial performance, leading to greener proposals, increased contract use by peer jurisdictions and improved contractor reporting of environmental performance. The goal is to make the catalog available to the public in FY2013. Website content and design work are required.	Existing staff resources	N/A	N/A
ES14-06(B): Align Key Contracts with Requirements of Green Building Policy/LEED Certification.	Few (if any) county contracts support upfront green building needs as well as maintenance needs into the future. Include optional LEED specifications in key contracts – furniture, janitorial, certain electronic appliances, lighting, plumbing fixtures and other water use products. A strategy will be drafted in FY2013. Key contracts will be targeted for revision at the time of expiration and re-solicitation. DPSM will work with stakeholders to insert optional LEED specifications into the solicitation.	Existing staff resources	None.	N/A

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ES-C. New Actions				
<p>ES08-07 (C) Neighborhood Ecological Stewardship Training (NEST)</p> <p>Educates citizens and inspires stewardship through hands-on, multi-discipline experiential activities that connect people to their environment.</p>	<p>Pilot project initiated in spring 2006 by NVSWCD demonstrated significant community interest in adult natural resources programs and tested an effective method to foster environmental stewardship. More than 145 participated in the program and 25 partners were involved. In 2008, 73 partners were engaged with 261 participants. To continue NEST, funding is needed for both staff support and resources. (A staff person assisting with this program could also assist with other environmental stewardship initiatives, e.g. ES10-15(C).)</p>	<p>Existing funding used in FY2006 and FY2008. Loss of staff and funding in FY2009-FY2011.</p>	<p>\$35,000 For a part-time person and supplies.</p>	<p>II</p>
<p>ES08-09 (C) Promoting the Use of Natural Landscaping Practices by the Private Sector</p> <p>Public education and engagement to encourage natural landscaping on private property, in conjunction with implementing the Natural Landscaping Plan on county properties.</p>	<p>This program coordinates with implementation of Natural Landscaping Program projects on county-owned properties. It focuses on public education through interpretive signage at county demonstration sites, brochures, PSAs, workshops, and on public engagement through hands-on experience for individuals and groups interested in planting and maintaining natural landscape gardens and on county property.</p>	<p>None</p>	<p>\$50,000 To produce educational materials, install interpretive signs and host workshops</p>	<p>II</p>
<p>ES08-11 (C) Promoting Stewardship Of Urban Forest Resources</p> <p>Program to build appreciation for trees and urban forests by residents</p>	<p>This action builds on goals from the Tree Action Plan to foster an appreciation for trees and urban forests by the residents of Fairfax County and to compel residents to protect, plant and manage their trees. Addresses BOS Environmental Committee concerns relating to the removal of healthy, mature trees on private properties.</p>	<p>None</p>	<p>\$100,000 Funds will be used to develop an education and outreach plan and to develop and print educational materials.</p>	<p>I</p>

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ES09-15 (C) Government Center Energy Project	Funding is needed to implement a feasibility study on various Green building technologies and renewable energy technologies that could be implemented at the Government Center. The study should also include ways to use the new technologies to educate citizens, allow research for students, etc.	None	TBD	III
ES09-16 (C) Feasibility study for Renewable Energy Technologies	A study is needed to assess appropriate facilities and payback analysis for implementation of renewable energy technologies such as solar. Capital Facilities Division is reviewing new facility designs and incorporating green roofs where feasible, such as Dolly Madison library.	None	TBD	II
ES09-17 (C) Perform Energy Audits for County Facilities	Physical inspection needs to be conducted of all the county facilities to make suggestions for energy improvements, separate from capital renewal projects. EECBG funding that was awarded was reallocated. Project is now unfunded. \$471,520 in EECBG funding that was awarded was reallocated.	None.	TBD \$500,000 estimated for 100 facilities	III
ES10-08 (C) Park Authority RECenters Lighting Improvement for Swimming Pools and Racquetball Courts	Initiative relates to energy survey conducted in FCPA facilities. The Park Authority has 9 RECenters with indoor swimming pools, racquetball courts, and other activity rooms. Upgrading these systems will provide an opportunity to significantly reduce energy consumption and reduce energy bills, as well as reduce CO2 emissions to the atmosphere.	None	\$400,000	I

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ES10-10 (C) Building Envelope Assessment and Improvement for Park Authority Facilities	Initiative relates to energy survey conducted in FCPA facilities. A better building envelope can help make a building energy efficient and environmentally friendly. Some Park Authority facilities have old buildings that need to be evaluated in terms of building envelope and air flow control between indoors and outdoors. This action will save energy uses for HVAC systems, will reduce energy bills, and will reduce CO ₂ emissions to the atmosphere.	None	Assessment Cost: \$300,000	I
ES10-11 (C) Park Authority Facilities Small HVAC Systems	Initiative relates to energy survey and life cycle of equipment that was done in all FCPA facilities. By replacing the older air conditioner or heat pumps, FCPA could be protecting the FCPA from the potentially rising costs of servicing R-22 products and environmentally could contribute in prevention of ozone layer depletion, which is a critical environmental issue. FCPA currently has 33 small HVAC units that need to be upgraded to be more energy efficient and comply with the federal mandates for the use of HCFC's. Most of these units are more than 10 years old. The plan is to replace the old units with high efficiency units from 8/10 to 14 SEER rating.	None	Retrofit Cost Estimate: \$500,000	I

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<p>ES10-14 (C) Water Conservation Education and Device Distribution Program</p> <p>“Water: Use it Wisely” color brochures in PDF format are available through the Council of Governments. Faucet aerators can be distributed at Schools and major public events.</p>	<p>Water: Use it Wisely brochures can be printed, folded and distributed by a county vendor at a rate of approximately 23 cents per household. Faucet aerators can be distributed at a rate of approximately \$1 each. Schools and public events could be the major distribution mechanism for the aerators. This effort would be a joint effort between Fairfax Water and Fairfax County Government.</p>	None	TBD	II
<p>ES10-15 (C) Environmental Stewardship Matching Grants Program for Watershed Protection and Energy Conservation</p> <p>An environmental stewardship grant program for watershed protection and energy conservation actions by residents, HOAs and schools.</p>	<p>Green Living workshops would focus on how to save energy, create sustainable landscapes, protect local water quality and conserve water. Workshop attendees would become eligible for matching grants and technical assistance for projects, such as installation of permeable pavers, rain gardens, cisterns, green roofs and tree canopy, riparian buffer or shoreline enhancement, energy efficiency or water conservation measures. Projects would help the county meet the goals of minimizing runoff, reducing pollutant loads, increasing biodiversity, habitat and forest resources, counteracting global warming, conserving water, and building community and environmental stewardship.</p>	None	<p>\$90,000 to fund grants and a full-time program coordinator.</p> <p>\$45,000 for a pilot project with a temporary part-time coordinator.</p>	I
<p>ES11-12 (C) Establish a Green Roof at Noman M. Cole, Jr. Pollution Control Plant</p>	<p>Currently the Wastewater Management Program’s WTD is in the very initial phase of researching the feasibility of the design and installation of a green roof at the Noman M, Cole, Jr. pollution Control Plant.</p>	Existing staff resources.	TBD	N/A

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<p>ES12-01 (C) Second Phase of Outdoor Lighting and Control System Retrofits at Park Facilities</p>	<p>This project is a continuation of the EECGB outdoor lighting retrofits project, in order to complete those facilities outdoor lighting retrofits and to include more facilities with good opportunities for savings and outdoor lighting improvement.</p> <p>ES11-14(B) and ES12-01(C) reference the same work and EECBG funding.</p> <p>Unlike ES11-14(B), ES12-01(C) references “second phase.” Phase 1 referred to the athletic field lighting improvements and Phase 2 refers to the parking lot and tennis court/basketball court lighting improvements.</p> <p>As noted previously, FCPA currently has \$691,447 for this work because: (1) ES11-13(B) (Phase 1/athletic fields lighting) came in substantially below its \$330,000 EECBG budget, and thus rolled over to Phase 2; and (2) Budget transfers in 2011 and 2012 increased the total FCPA EECBG budget from \$550,000 to \$852,609.</p>	<p>\$852,609 EECBG funding</p>	<p>\$300,000 is unfunded</p>	<p>I</p>
<p>ES12-02 (C) Park Authority Solar Thermal Systems for RECenters</p>	<p>Solar thermal systems installed in FCPA RECenters would partially provide hot water in facilities. Projects provide energy savings and use clean, renewable energy, reducing greenhouse gases and providing directions to extend solar energy use in FCPA facilities.</p>	<p>None</p>	<p>\$400,000</p>	<p>I</p>

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