# FAIRFAX COUNTY, VIRGINIA
# Environmental Improvement Program (EIP)
# Section D: Summary of Actions
# Fiscal Year 2011

## Prepared September 2009

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**NOTE: EACH EIP ACTION IS ASSIGNED A UNIQUE IDENTIFICATION NUMBER, BEGINNING WITH "EIP11" TO REFLECT THE FISCAL YEAR 2011 ORIENTATION OF THIS DOCUMENT. THE "EIP11" 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 EIP10:**

**EIP11-AQ07-01(B): EZ Bus Program**

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

**EIP11-ES09-10(C): Energy Outreach Program**

# I. GROWTH AND LAND USE (GL)

| Title of Action | Status | Funding Already Allocated | Additional Funding Needed | Priority |
|---|---|---|---|---|
| **GL-A. Completed Actions** | | | | |
| **GL07-02: PRM Zoning District** | District established in 2001; there are now 19 PRM Districts in the county.<br><br>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 |
| **GL08-03: Plan Amendment to Strengthen Air Quality Guidance and to Incorporate Support for Green Building Concepts** | Amendment adopted on December 3, 2007. Policy to be reviewed within two years of adoption. | Action completed | N/A | N/A |
| **GL08-10: Tree Preservation Legislation and Tree Conservation Ordinance** | Completed. New authority for tree conservation was passed during the 2008 Virginia Legislative Assembly and the Fairfax County Tree Conservation Amendment and associated amendments were adopted in October 2008. | Existing staff resources | N/A | N/A |

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| **GL-B. Actions Underway** | | | | |
| **GL07-03: Area Plan Amendments and Subsequent Rezonings Supporting Transit-Oriented Development and the Provision of Housing in Employment Centers** | Ongoing implementation—e.g., Area Plans Review process; Springfield Connectivity Study; Tysons Corner Transportation and Urban Design Study; Annandale study; Baileys Crossroads study; rezoning approvals | Annual cost for implementation represents a considerable portion of DPZ's annual budget. Significant grant funds being used as well for Springfield Connectivity Study and BRAC | No additional funds needed | N/A |
| **GL07-04: Planned Development District Zoning Ordinance Amendment** (tree preservation and open space issues) | Draft proposals have been coordinated with a Planning Commission committee, ESI, NVBIA and various citizens groups. On Priority 1 list of the 2009 Zoning Ordinance Amendment Work Program | Existing staff resources | N/A | N/A |

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| **GL07-05: Tysons Corner Transportation and Urban Design Study** | Task Force "Vision and Area Wide Recommendations" issued in September 2008. Staff "strawman" Plan text issued in February 2009. Draft Review Committee and Planning Commission Tysons Corner Committee reviews are ongoing. One demonstration project at the Tysons West transit station entrance is being evaluated. Economic/fiscal analysis under way. | Over $2,000,000 allocated for consultant services since 2004. Additional funding for neighborhood impact study. $5.45 million from Tysons Transportation Fund allocated for work in Tysons including support for the street grid and circulator system. | Additional projects, each with funding needs (e.g., Tysons Transp. Fund; General Fund; and/or Commercial & Industrial Real Estate Transp. Tax) to be pursued. | I |
| **GL07-06: Pedestrian-Oriented Neighborhood Commerce: Plan Implementation** | Continued efforts to implement and refine the Plan are anticipated | Part of the broader funding per GL07-03. | See GL07-03 | N/A |
| **GL07-07: Adequate Infrastructure Legislation** | County support for legislation in the past; efforts anticipated to continue | Existing staff resources | N/A | N/A |

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| **GL07-08: Review of Federal NEPA Reports and State Environmental Impact Reports** | Ongoing | Existing staff resources, but reviews are sometimes extensive | N/A | N/A |
| **GL07-10: Maintaining Neighborhood Character Zoning Ordinance Amendment** (formerly Residential Compatibility Zoning Ordinance Amendment) | Amendment on Priority 1 list of the 2009 ZO Amendment Work Program. Amendment that would require 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, is scheduled for a Board public hearing in September 2009. Final meeting with the work group to discuss other alternative methods to address the impact of a new taller house or an addition being constructed adjacent to an existing shorter house (looming) was held on July 28th and staff will be reporting to the Board's Development Process Committee on September 21st. Subsequent amendments to address looming and neighborhood character may occur. | Substantial staff resource needs; but to use existing resources | N/A | N/A |

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| **GL08-01: Review Zoning Ordinance Parking Requirements in Transit-Oriented Developments** | Study of alternative parking standards in TOD areas is being considered as part of a broader Transportation Demand Management program effort. Study completion anticipated in the near future, followed by Plan and/or Zoning Ordinance amendments. | Consultant funding provided | N/A | N/A |
| **GL08-02: Development of the Integrated Parcel Lifecycle System (IPLS)** | Phase I (development of data warehouse structure and loading modules) and Phase II (incorporation of Comprehensive Plan information and demographic work) have been completed, and the IPLS data warehouse is now available to all county staff using GIS or Oracle tools. Phase III is under way—this involves development of new/improved reporting tools (e.g., use of custom geographies; existing land use summary reports; zoning and planned land use summaries). Resources are not fully available for development of a module summarizing the nonresidential development pipeline. | Remaining funds from Phases I and II being used in support of additional analysis and reporting needs. | The data warehouse structure, demographic analyses modules and planned database development are essentially complete. Ancillary actions would require additional resources | N/A |

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| **GL08-05: Update the County's Planimetric Data Layer** | Funding to initiate a four-year update cycle has been provided. Both a data capture and quality control contractor are under contract. The first quadrant (SE) is being processed and the second quadrant (NE) should initiate in the fall. | Funds approved for the first two years (quadrants) has been approved. | In view of budget cuts in FY 2010, there may not be sufficient funds to complete the third quadrant in FY 2010 and the fourth quadrant in FY 2011. | N/A |
| **GL08-06: Mapping of Fairfax County's Vegetation Ecosystems** | Funded and in progress. Timing of completion dependent on accuracy of differentiation of community types through spectral analysis, to be determined through field verifications. Countywide dataset based on 2002/3 imagery anticipated in 2012; update with imagery to be acquired in 2009 already funded. | Effort is funded. | Future updates beyond 2009 would cost approx. $180,000-$200,000 | N/A |
| **GL08-11: Urban Forestry Roundtable** | The Urban Forest Management Division is actively participating in this interjurisdictional forum supporting regional communication and support for tree preservation and management efforts. | Existing staff resources | N/A | N/A |

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| **GL08-12: Consider Amending Article 13 of the Zoning Ordinance (Landscaping and Screening)** | The Tree Conservation Ordinance and associated amendments (adopted in October 2008) partially addressed this recommendation. A comprehensive review of landscaping and screening provisions of the Zoning Ordinance is on the Priority 2 list of the 2009 Zoning Ordinance Amendment Work Program. | Existing staff resources | N/A | N/A |
| **GL08-13: 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 |
| **GL09-01: Consideration of Green Building Incentives for Private Sector Development** | A Virginia Constitutional amendment setting the stage for enabling legislation allowing property tax exemptions for green buildings has been proposed; local consideration of this idea can be considered further if this effort is successful and if enabling legislation is enacted.<br><br>The county's site plan and building plan review processes provide for preferential timing of review for "green" plans. In addition, permitting fees are waived for the installation of solar energy equipment. Incentives are also being considered in the development of Comprehensive Plan guidance for Tysons Corner. | Existing staff resources, but tax incentives would have revenue implications | N/A | N/A |

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| **GL-C. New Actions** | | | | |
| **GL07-09: Future Planned Development District Zoning Ordinance Amendment** (expand number of uses allowed, as well as densities/intensities) | Identified as a Priority 1 item on the 2009 Zoning Ordinance Amendment Work Program; Zoning Administration staff is coordinating with Planning Division staff on the Tysons Corner Transportation and Urban Design Study to determine need for higher FARs and related Zoning Ordinance Amendment needs. | Existing staff resources | N/A | N/A |
| **GL09-02: 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: Strengthened Zoning Case Submission Requirements: Preliminary Utility Plan** | On the Priority 2 list of the 2009 Zoning Ordinance Amendment Work Program. | Existing staff resources | N/A | N/A |
| **GL09-04: Consideration of No-Net Tree Canopy Loss Policy during the Development of County Facilities** | Related to June 2007 Board Matter. Currently, the Urban Forest Management Division is in the process of data gathering, compilation and research prior to convening a reporting meeting on the feasibility of the No-Net Tree Canopy Loss Policy. | Existing staff resources to consider policy; TBD for follow-up | N/A | N/A |

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| **GL09-05: 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 $114,997 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** | | | | |
| **AQ07-01(A): EZ Bus** | The EZ Bus service has served its purpose during the building of the Burke Centre VRE station garage and is no longer needed. | | | |
| **AQ07-13(A): Purchase of Wind Power** | 3-year contract, April 1, 2007 – March 31, 2010, to purchase up to 10% of county's electricity | | | |
| **AQ09-03(A): Waiver of GVW Limits for Idle Reduction Equipment** | Legislation implementing this action is in effect. | | | |
| **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 |

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| **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. FY 2010 monthly allocation will increase to 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 09, Board of Supervisors approved 78 traffic calming actions on residential roads. An additional 141 traffic-calming and cut-through restriction projects are in the community planning and approval phases. | $1.2 million | $200,000 annually (state funded) and DOT staff support | N/A |
| **AQ07-07(B): Priority Bus Stop Improvement Program** (Title changed from: Bus Stop Inventory and Safety Recommendations Implementation) | The Bus Stop Inventory and Safety Study identified 344 priority bus stops that require safety and accessibility improvements. There are 169 bus stop improvements in various phases. Twenty-two bus shelters are completed. | $9.35 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 2009 with a construction completion date of 2011. | Over $30.0 million. Funding is derived from a variety of sources | $25 million is projected to complete the initiative and 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. | $30,000 was funded as Environmental Agenda Project for FY 2010. | $30,000 annually | I |

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| **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** | Alternative Fuels Clean Cities Partnership; Technology and Maintenance Council; National Truck Equipment Association; three work groups of the Mid-Atlantic Diesel Collaborative | None | Existing Staff Resources | N/A |
| **AQ07-14(B): Participation on the Metropolitan Washington Air Quality Committee (MWAQC)** | Active participation by BOS reps and staff | None | Existing Staff Resources | N/A |

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| **AQ07-15(B): Evaluation and Purchase of Hybrid Drive Vehicles** | Purchasing production hybrids as scheduled replacements for conventional vehicles where mission and budget permit. Continuing evaluation of one plug-in (Prius). Grant funding anticipated for hybrid school bus and hybrid refuse truck. Seeking grant funding for further hybrid and electric vehicle and infrastructure exploration. | Anticipate $155,000 grant funding for hybrid school bus and hybrid trash truck from Energy Efficiency and Conservation Block Grant. | Seeking further grant funding for electric and hybrid exploration. Cost increment of $11K each for Escape Hybrids and Fusion Hybrids. Hybrid school bus incremental cost is $105K; trash truck is $50K. Proposed for EECBG funding. | 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. | $165 million in county general obligation (G.O.) and DOT staff support. | $32 million in federal (RSTP and CMAQ) funds. DOT staff support. The total funding is $194 million. | 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(B): 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 | Existing staff resources now, 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. | Estimated $300,000 already allocated. | None. Previously funded. | N/A |

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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 2009, 384 trees have been planted on Fairfax County Government property toward this goal. | $170,000 | $220,000 | 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 | $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 is 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. | $10,000 anticipated from Energy Efficiency and Conservation Block Grant. | None. Proposed for EECBG funding. | N/A |
| **AQ11-02(B): School Bus SCR Retrofit** | Technology demonstration of NOx-reducing retrofit without use of urea | $1.3M EPA grant and partner leveraged resources | None. Funded by federal grant. | N/A |

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|---|---|---|---|---|
| **AQ-C. New Actions** | | | | |
| **AQ07-22(C): Fuel Economy and Emissions Standards** | Not under way. Develop a federal advocacy strategy, within the context of MWAQC, to increase fuel economy and emission standards for cars and light trucks. | None | Existing staff resources | N/A |
| **AQ10-03(C): Continuing Purchase of Wind Power** | 3-year contract to purchase at least 10% of county's electricity | 0 | $783,000 | I |

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# III. WATER QUALITY

| Title of Action | Status | Funding Already Allocated | Additional Funding Needed | Priority |
|---|---|---|---|---|
| **WQ-A. Completed Actions** | | | | |
| **NONE** | | | | |
| **WQ-B. Actions Underway** | | | | |
| **WQ07-01(B): Watershed Management Planning** (Development of comprehensive watershed management plans for all watersheds) | To date, six watershed management plans have been completed and adopted by the Fairfax County Board of Supervisors. Combined, these six plans cover approximately 50 percent of the land area in the county. Work on the other watershed management plans for the remaining 50 percent continues, with all plans anticipated to be completed by 2010. | $15.2M, (Comprised of $8.2M from the General Fund plus $7M in Pro Rata Share Funds) | This initiative is funded by allocations from previous budget years. | N/A |
| **WQ07-02(B): Stormwater Management Implementation Plan** (Ongoing implementation of the expanded Stormwater program.) | The County continued its capital improvement and infrastructure reinvestment strategies in CY 2008, with capital expenditures totaling $29,234,537. However, a more realistic reinvestment cycle needs to be established. | $29.2M | The total funding that ultimately will be needed for this is too great to accomplish in a single budget year. A multi-year approach should be considered and could begin with restoration of a full penny dedicated to capital projects. | I |

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| **WQ07-03(B): Stormwater Retrofits** (Identification and implementation of retrofits to existing Stormwater facilities) | In FY 2008, the county retrofitted seven Stormwater management facilities to provide enhanced water quality and/or drainage. The retrofits included flood control, excavation of silt and sediment, planting wetland species in dry ponds, installation of BMP plates and trash racks, creation of micro pools and shallow wetlands, and construction of green roofs and bioretention basins. | Funding is included in the Capital Improvement Work Plan | The total funding that ultimately will be needed for this is too great to accomplish in a single budget year. A multi-year approach should be considered and could begin with restoration of a full penny dedicated to capital projects. | N/A |
| **WQ07-04(B): Riparian Buffer Restoration** (To restore buffers initially at seven sites, with 40 sites targeted.) | To date there are 35 ongoing projects throughout the county. These projects have focused on the conversion of mowed grass to areas of native trees and shrubs typical of riparian areas. Project size has varied from a few trees and shrubs to over a thousand. In 2008, 257 volunteers helped plant over 1200 native trees and shrubs at 6 sites. | $300K funded to date. | Current funding levels are adequate to support this initiative | N/A |

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| **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.) | In 2008, the county completed 7 restoration projects with the assistance of various non-profit organizations and volunteers. Environmental consulting firms have been engaged through a multi-year contract to assist with these types of projects. In addition, construction contracts with qualified contractors are in place and restoration work in progress in various locations, based on their designated priority. | Funding is included in the Capital Improvement Spending Plan | The total funding that ultimately will be needed for this is too great to accomplish in a single budget year. A multi-year approach should be considered and could begin with restoration of a full penny dedicated to capital projects. | N/A |
| **WQ07-06(B): Septic System Tracking and Assistance Program** (Health Department program to development on-site systems and track performance.) | Health Department staff and representatives from American Water / Applied Water Management have established a project schedule and a phased approach for accomplishing the tasks necessary. | $178K | None identified, pending results of the Feasibility Study | III |
| **WQ07-08(B): Soil Survey** | The mapping and data collection have been completed and have undergone quality control and assurance processes, and scanning and digitization, by the USDA-NRCS state office in Richmond. The expertise of a soil scientist, familiar with the County's soils and the County soil survey, is needed beyond the completion of the soil survey update. | $755K for the survey and $79K per year in FY08 and FY09 for ongoing soils expertise | Continued annual funding for one soil scientist | I |

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| **WQ07-09(B): Soil and Water Quality Conservation Planning for Horse Operations and Other Land in Agriculture** | In 2008, NVSWCD prepared Soil and Water Quality Conservation Plans for seventeen parcels, comprising 830 acres of land, and included 46,712 linear feet of vegetated buffers for Chesapeake Bay Resource Protection Areas (RPA). Cumulatively, 11,968 acres and 350,698 linear feet of RPA are included in conservation plans that have been developed since the program began in 1994. | Resources are budgeted in the NCSWCD annual work plan. | Current funding levels are adequate to support this initiative | N/A |
| **WQ07-11(B): SWM reviews during the Plan Amendment Process** (Development of an SOP) | All such nominations are now being referred to the Stormwater Planning and Assessment Branch for review and comment. Costs of the enhanced DPWES coordination are being absorbed into the agency's operating budget. Experiences with this review process will be gauged upon completion of the current APR cycle and modifications will be made as needed. | Existing staff resources. | Current funding levels are adequate to support this initiative | N/A |
| **WQ08-02(B): 2006 Radio Ad Campaign** | This is an ongoing campaign that aired in 2008 on eight area radio stations with1,064 public service spots reaching 740,000 listeners. | $93,450 | None | N/A |
| **WQ08-03(B): Stormwater Management Review Process** | In progress and ongoing | Performed by existing staff | None | N/A |

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| **WQ08-04(B): Low Impact Development Initiatives** | In 2008, DPWES, NVSWCD, FCPA, nonprofit organizations and individual volunteers contributed to the design and implementation of 18 projects that incorporate one or more LID practices. | Design Manual: $40K FCPA LIDs:$150K Other LIDs: Funded in Stormwater Management Implementation Plan. | This effort is funded by existing Stormwater Management Implementation Plan funding | II |
| **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 anticipated for June 2010. | Funding is included in the UFM Operating Budget | Current funding levels are adequate to complete the project as planned. | N/A |
| **WQ08-06(B): Stream Flow Gauge Monitoring** | In 2007, the county partnered with the US Geological Survey to install a water resources monitoring network. Both dry and wet weather (storm event) nutrient data are being collected by means of 4 USGS water gauging stations throughout the County. The data is posted to a USGS web page, typically within 15 minutes after collection. | -0- | Current funding levels are adequate to support this initiative | N/A |
| **WQ08-07(B): MS4 Permit Application** | Negotiations continue and the county is operating under the five-year MS4 permit issued in 2002, which has been administratively continued by DCR. DCR submitted a third preliminary draft of the permit to the county in January 2009. The FCPS Phase II MS4 Permit is being coordinated with the county Phase I MS4 Permit. | $140K | None identified. Currently authorized funding is adequate to complete the project as planned. | N/A |

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| **WQ08-08(B): Outreach and Education Program** | In 2008, Stormwater Management staff created a series of educational brochures to encourage public involvement in the current comprehensive watershed management planning effort. Stormwater Management continues to make regular presentations to various groups throughout the county regarding non-point pollution sources and other watershed basics. The presentations include an overview of watersheds and Stormwater management practices that residents can implement to protect the water quality of local streams, the Occoquan Reservoir, the Potomac River and the Chesapeake Bay. | Funding is included in the operating budgets of the participating partners. | Current funding levels are adequate to support this initiative | N/A |
| **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 be established by CY2010. | Funding is included in the UFM Operating Budget | None identified for FY2011 | N/A |
| **WQ-C. New Actions** | | | | |
| **WQ07-10(C): Comprehensive Review of the County's Code and Zoning Requirements** (ID regulatory impediments and policy conflicts re: better site design principles) | This has not been initiated. Consideration of various approaches is being evaluated. | -0- | Depending on approach, this will require staff and external resources ($100,000 to $250,000) | III |

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| **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 2009. | -0- | TBD, but substantial staff resources (significant commitment of two to four planner positions) will be needed | N/A |
| **WQ10-01(C): Riparian Buffer Maintenance** | This new project is to maintain and supplement the 31 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** | | | | |
| **SW07-02(A): Expand Recycling Programs** | Chapter 109 revised (now, Chapter 109.1) to include an expanded list of materials and expansion of non-residential programs. Outreach, education, and coordination w/ other affected agencies underway. | N/A | N/A | N/A |
| **SW08-04(A): Clean Streets Initiative** | This new program, to cleanup debris piles left at the curb, is underway and has proven enormously successful and effective. Requests for action are ongoing. | N/A | N/A | N/A |
| **SW-B. Actions Under Way** | | | | |
| **SW07-03(B): Encourage Use of Recycled Products through Environmentally Preferable Purchasing (EPP)** | This action was combined with **SW07-04(B): Increase County Use of Recycled Products** due to the considerable overlap in general intent. County Procedural Memoranda (PM) 143 updated - SWMP provided technical support to DPSM toward development of such a program. County Procedural Memoranda (PM) 144 also updated. | Funding source not identified. | $15,000 for program needs. | II |

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|---|---|---|---|---|
| **SW07-05(B): Remote HHW Collection Events** | Fourth consecutive year of remote events is in progress. Previously funded for fund five (5) scheduled events in 2008. Participation in these events continues to grow, with costs directly linked to the number of residents using the program. | $90,000 for FY 2009 events. | Future events anticipated to cost $123,000 per year | I |
| **SW07-06(B): Develop Long-Term Plans to Manage Electronic Waste within Fairfax County** | Revised plan to include monthly "Electric Sundays" at the I-66 Transfer Station. First year of I-66 events is in progress, funded in part by $35,000 annual contribution by Covanta Energy. Participation in these events has far exceeded anticipated levels, with costs directly linked to the number of residents using the program. Covanta's annual contribution has been spent in the events held thus far. | Existing Program funding can cover 5-6 events at I-66 in FY10. Funding not yet identified for remainder. | $250,000 per year | I |
| **SW07-07(B): Develop A Toxics Reduction Campaign** | No change in status. The "KnowToxics" Program has been established as a regional effort to address management of fluorescent bulbs, rechargeable batteries, and obsolete electronics. The main features of the program is a website entitled "KnowToxics.com" and selected radio and print advertising. | Basic Program established, but funding source for ongoing operation not yet identified. | $10,000 per year. | I |

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| **SW08-01(B): Maximize Energy Recovery from LFG Resources** | 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.<br><br>Work will now focus on investigating feasibility for heating use at the new West Ox Bus Operations Center. | 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 complete the Bus Operations Center expansion project. | I |
| **SW08-02(B): WWTP Effluent Reuse at Covanta E/RRF from Noman Cole WWTP** | Initial feasibility study was completed and project deemed technically and economically feasible. Efforts must now focus on developing the project final design and negotiating water use rates and terms with Covanta and other potential water users. | $124,000 for initial study. | Project will be funded through water user fees, while still saving E/RRF at least 25% over potable water costs. | II |
| **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 |

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| **SW-C. New Actions** | | | | |
| **SW09-02(C): 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, will likely be the purchase and initial deployment of a solar-powered pond aerator. Later Phases may include a solar water heater at the truck driver's restroom at I-95, 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. | $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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| **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 |
| **SW10-02(C): Single-Stream Recycling Toters for County Customers** | Bigger toters will reduce collection costs, air pollutant/GHG emissions, and otherwise reduce the environmental footprint of the County's recycling operations. | N/A | $2.5M to cover all Sanitary Districts | I |

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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** | | | | |
| **PT07-04(A): Pedestrian Improvements as part of the State's Secondary Construction Program** | Complete. Additional projects will be included in PT07-03(B): Pedestrian Improvements in the Four Year Transportation Plan | $2,900,000 funded through FY 2010 | N/A | N/A |
| **PT-B. Actions Underway** | | | | |
| **PT07-01(B): 10-Year Pedestrian Capital Plan** | Underway. The pedestrian task force final report was presented to the Board in January 2006, recommending a safety awareness campaign and a 10 year pedestrian capital plan. Seeking funding to implement. | N/A | $46 million through 2011. | I |
| **PT07-02(B): Trail Projects/Pedestrian Improvements** | Underway | $4,500,000 | $2,000,000 per year | I |
| **PT07-03(B): Pedestrian Improvements in the Four Year Transportation Plan** | Underway | $25,000,000 | N/A | N/A |

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| **PT07-05(B): Trails Inventory and Planning**<br>Continue to update the existing trails map to help identify missing trail links. | Underway. The Department of Public Works and Environmental Services and the Park Authority are working to update GIS data and routines are being developed to update information from new developments. The Department of Planning and Zoning will utilize this data for trail planning and to develop trail maps. *See project EIP08-PT08-02 (B).* | Most mapping costs absorbed in existing resources. | $2,000,000 per year (see PT07-02(B)) | N/A |
| **PT07-06(B): Upgrades for the Cross County Trail** | After 6 years of work the Cross County Trail was completed in December 2005. In future years, additional funding in the amount of $4,000,000 will be needed for improvements to the existing trail. These improvements will include re-routed sections, additional and improved stream crossings, improved and relocated road crossings, additional signs to identify trail connections, rest stop locations, drinking water sources, etc., and additional upgrades to trail surfacing. | See EIP10-PT07-07 | In future years, additional funding in the amount of $4,000,000 will be needed for improvements to the existing trail. | I |

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| **PT07-07(B): Park Authority Trail System**<br>The Park Authority trail system continues to be developed through the park bond program and through volunteer efforts. | Current and future efforts include evaluating missing links and providing needed trail network connections. Trail plans are underway for Laurel Hill and Sully Woodlands where the complexity and breadth of the land and variety of uses will require careful planning. | $7,750,000 | $60,000,000 | I |
| **PT07-08(B): Interpretive Signs Along FCPA Trail System**<br>The newly completed Cross County Trail, which stretches over 40 miles from the Potomac River in the north to the Occoquan River in the south, mostly within stream valley parkland, presents an ideal way to provide trail users with information about natural and cultural features found in Fairfax County. | Five interpretive signs have been developed, incorporating themes from the natural and cultural components of the trail. Themes have been outlined and prioritized for new signs as funding allows. | $28,000 in FY 2006 | $750,000 | I |
| **PT07-09(B): FCPA Urban Pocket Parks** | 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 | II |

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| **PT07-10(B): Parks and Recreation Needs Assessment Process**<br><br>Implementation of the Needs Assessment is ongoing through the Capital Improvement Program, Comprehensive Plan Amendments, and Long Range Park Planning. | 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 FY 2011, | $300,000 | TBD | N/A |
| **PT07-11(B): Parks and Recreation Needs Assessment Implementation**<br>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. | A portion of the Near Term Needs will be satisfied through the acquisition and build out of the current and upcoming Capital Improvement Plans. | $155,000,000 (includes land acquisition) | $93,258,403 (not including land acquisition) | I |
| **PT07-12(B): Parkland Acquisition**<br>The Park Authority has an ongoing program for acquisition of property, including vacant and underutilized parcels, for open space. | Congressman Connolly has challenged the Park Authority to acquire 10% of the land in the county. Current land holdings account for 9.6% of the county, with an additional 1,00 need to reach the 10% target. | $10,000,000 (remaining in 2008 bond) | $80,000,000 | I |

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| **PT07-13(B): Open Space Easements/NVCT Partnership** | Ongoing | $239,740 (Approved County Contribution for FY10) | Future Cost: $239,740 + CPI (annual cost) | N/A |
| **PT07-14(B): Park Authority Conservation Easement Initiatives** | Ongoing<br>$10,000,000 would help establish a more aggressive Park Authority conservation easement program. | $10,000,000 (remaining in 2008 bond) | $10,000,000 | II |
| **PT07-17(B): Park Authority Natural Resource Management Plan Implementation--Encroachment Enforcement** | 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. | N/A | $250,000 needed annually | I |

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| **PT08-01(B): Park Natural Resource Management**<br>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. Fiscal Year 2011 will mark the 7th year of plan implementation.<br><br>The Park Authority is now at a critical stage in which we can not continue to make significant progress without additional staff and funding. | Three years into implementation, the Park Authority is doing what they 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. The county's natural areas are rapidly degrading and need management. The intent of the Natural Resource Management Plan – to manage natural resources can not occur without additional funding and staff. | Existing Resources | Phase 1: $650,000 per year including six new staff positions. $3,000,000+ per year needed for full program. | I |
| **PT08-03(B): Park Information Systems**<br>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 funded by Board of Supervisors at FY 2004 carryover | $200,000-$1,000,000 to test and implement the model. | I |

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| **PT09-01(B). Creation of District-Wide Park Plans** | The Park Planning Branch of the FCPA will evaluate the existing park system systematically by planning district. For each planning district, data will be compiled about existing park conditions, existing and planned park facilities, resources and uses and how resources serve those who live in and around the district. | N/A | N/A | N/A |
| **PT09-03(B). Synthetic Turf Athletic Fields** | The Park Authority has begun developing synthetic turf fields to increase usability and to reduce maintenance and environmental impacts. | $14,000,000 | TBD | I |
| **PT-C. New Actions** | | | | |
| **PT07-21(C): Park Authority Natural Resource Management Plan Implementation--Boundary Survey and Marking** | 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. | N/A | $250,000 needed annually | I |

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| **PT08-05(C): Sully Woodlands Interpretive Center and Resource Management**<br>The Park Authority is developing 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. | 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. | $290,000 for a conceptual plan is included in the 2008 park bond. | TBD | I |
| **PT08-06(C): Implementing Natural Landscaping Practices on County Properties**<br><br>Multi-agency effort to implement natural landscaping practices on County properties. | 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 | N/A | $100,000 | I |
| **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)

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| **ES-A. Completed Actions** | | | | |
| **ES09-05 (A) NACo/Energy Star Change a Light Program**<br><br>An initiative to replace incandescent lights at home with compact fluorescent lamps (CFL). | In FY2007, phase I was for county employees and phase II was for citizens. The program resulted in 835 total pledges, 606,583 kWh saved and 1.1 million pounds of CO2 emissions prevented. In 2007 the County won 1st place NACO award for public outreach, and received 1,000 CFL bulbs, which were distributed at public events. | Promotional materials were funded by FMD operating budget. | N/A | |
| **ES09-18 (A) Energy Manager, Park Authority**<br>*formerly PT09-02 (B)* | After several years of planning and in support of the Park Authority's Strategic Plan 2006-2010, an energy manager position was established and filled in October 2007. The framework for the agency's Energy Management Plan for has been developed. energy surveys, monitoring and audits are being done. Projects are being identified. | $107,120 funded in FY 2007 carryover. $278,100 funded in FY 2009 budget. | N/A | |
| **ES10-03 (A) Implement Environmental Management System for Wastewater Management Program** | Currently Wastewater Management has achieved recognition in the Virginia Environmental Excellence Program at the E3 level, and has a commitment to achieve the next level of recognition, E4. | Existing staff resources and funding provided in FY 2009 | No additional | N/A |

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| **ES10-04 (A) Water Use Reduction in Wastewater Management Program Laboratory Process** | In 2007, the Lab realized a reduction in deionized water usage by 8,040 gallons per year | Existing staff resources | No additional | N/A |
| **ES10-05 (A) Use Reclaimed Water in the Irrigation System for Noman Cole Pollution Control Plant Landscaping** | The installation of an irrigation system was completed in March 2008, and use began in May 2008. The system is designed for future expansion. | Funding provided in FY 2008 | N/A | N/A |
| **ES11-01 (A) Installation of a Solar Powered Water Mixer by Waste Water Treatment Division at Noman M. Cole, Jr. Pollution Control Plant** | In 2005 the WTD installed a solar powered mixer in one of its equalization ponds in lieu of refurbishing the existing electrically powered mixers. The WTD saw an almost immediate payback from the installation in electrical cost savings. | Funding provided in FY 2006 | N/A | N/A |
| **ES11-02 (A) Installation of Solar Water Heater at the Wastewater Treatment Division's Noman M. Cole, Jr. Pollution Control Plant** | In November 2008, the Noman M. Cole Jr. Pollution Control Plant installed a primary solar hot water heater to provide hot water for the showers, bathroom and lunch room in the old Admin. Building. | Funding provided in FY 2009 budget | N/A | N/A |
| **ES11-03 (A) Installation of Solar Powered Meters by the Wastewater Collections Division** | In 2008, the Meter Section installed solar batteries in 10 locations instead of installing electric power saving several thousands of dollars | Existing staff resources and funding provided in FY 2008 | N/A | N/A |

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| **ES-B. Actions Underway** | | | | |
| **ES07-02 (B) Volunteer Stream Monitoring**<br><br>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; efforts are multiplied through 'hub' in Reston. Program has associated education programs, connects residents to their watershed, and provides links to other programs and activities. Coordination with DPWES on county stream data reporting. FCPA staff conduct monitoring and support volunteer efforts. | Staff support is budgeted as part of NVSWCD work plan; assistance from interns and volunteers; supplies through grants. (Volunteer monitor contributions valued at $42,131). | None | N/A |
| **ES07-10 (B) Storm Drain Marking – Pollution Prevention Program**<br><br>Adult and youth volunteers carry out neighbor-hood education programs and place markers on storm drain inlets, to inform community that pollutants dumped in storm drains pollute local waterways. | NVSWCD provides program management, coordinates with VDOT for permits, and guides volunteers as they implement community education program and apply labels on storm drain inlets.<br>DPWES-Stormwater funds markers and glue and assists with program promotion. | Staff support is part of NVSWCD work plan.<br>DPWES provides $12-15,000 annually for supplies | None at current level. Further expansion would require additional resources | N/A |

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| **ES08-01 (B) Education and Outreach Programs and Activities**<br><br>A broad array of programs and activities inform the public about watershed issues and promote environmentally responsible behaviors and stewardship. | Initiatives include: newsletters, brochures, handbooks and other resource materials; seminars, workshops, watershed 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. | Budgeted as part of FCPA, NVSWCD and DPWES annual work plans. | None. | N/A |
| **ES08-02 (B) Environmental Education Programs Involving Youth**<br><br>Programs, many in partnership with schools, build understanding and respect for natural resources and further environmental stewardship among youth. | 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. | Budgeted as part of FCPA, NVSWCD and DPWES annual work plans. | None | N/A |
| **ES08-03 (B) Stream and Watershed Cleanup Efforts**<br><br>Volunteer efforts include participation in larger, regional efforts and in local community/ watershed sponsored projects | Volunteer stream and watershed cleanups are conducted in conjunction with the International Coastal Clean Up in the fall, the Alice Ferguson Foundation Potomac River Clean Up 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. | Budgeted as part of NVSWCD, FCPA and DPWES annual work plans. Supplies are provided by sponsoring organizations | None | N/A |

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| **ES08-04 (B) Support of Citizen-Based Environmental Stewardship Programs and Activities**<br><br>Information and technical advice are provided. Appropriate county services are identified and made available | 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 newly formed organizations, such as the Fairfax Chapter of the Virginia Master Naturalist Program. | Staff resources to support these efforts are budgeted as part of the DPWES, NVSWCD and FCPA annual work plans. | None | N/A |
| **ES08-05 (B) Park Authority Stewardship Education**<br><br>The Park Authority educates both staff and citizens countywide in important stewardship issues, the County's commitment to stewardship, and to engage them in practicing good stewardship. | The Park Authority is implementing the stewardship education initiative through a series of brochures and products related to natural resource stewardship. Twelve brochures and six 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 staff 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. | Existing resources used in FY2004-FY2009 Also, Carryover funding received in FY2004 and FY2006 | None | N/A |

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| **ES08-06 (B) Invasive Management Projects**<br><br>A Park Authority program to remove and control invasive plants on parkland and to involve citizens in this effort. | The Park Authority continues to sponsor the Invasive Management Area (IMA) volunteer program, as well as other initiatives. Currently 43 trained leaders have committed to four work-days per year at 41 sites. In 2008, the Park Authority will implement its second year of the Invasive Conservation Corps (a summer intern program) with a focus on manual removal of invasive species at IMA sits, riparian buffer planting sites and staffed sites. 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 will be developed by a contractor to include assessment, prioritization (species and locations) and a control program. | Funding for FY2005-FY2010 came from existing resources, carryover funding and grants. | $200,000 + per year needed beginning in FY2011 for program to continue | I |
| **ES08-10 (B) Partnering with Non-Profit Tree Planting Groups in Establishing a Countywide Tree Planting Program**<br><br>Program to plant more than 25,000 trees in a 5-year period | 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, Canopy goal partners and non-profits planted an estimated 9,000 trees. In FY 2009, funding was provided to three non-profits to build organizational capacity in support of a countywide tree planting program. | $50,000 funded in FY2008<br>$109,000 funded in FY2009<br>$93,350 was funded in 2010 | $110,000 is needed in 2011 | I |

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| **ES09-06 (B) Joined Energy Star Challenge**<br><br>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. | The County tracks energy usage and has a plan for energy improvements, including during capital renewal projects. Programs such as Change a Light Campaign raise awareness with others. | Existing FMD staffing will be used. | None | N/A |
| **ES09-08 (B) 30 Year Tree Canopy Goal**<br><br>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 | 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. | Short-term needs identified in ES08-10 (B) and ES08-11 (C) | $2.6 million over 30 years | I |
| **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 developed a list of projects to be funded using the federal EECBG money. | None | $9 million has been proposed for EECBG funding in 2010 | I |
| **ES09-12 (B) Government Center HVAC Component Replacement** | Chillers should be replaced with more efficient and environmentally friendly type. Pumps, cooling towers, kitchen heat recovery equipment, also need replacement. Replace pneumatic VAV boxes with DDC to take full advantage of building automation system. | $2,200,000 chiller replacement approved by BOS in FY 2009 budget | $2,200,000 for additional items unfunded | II |

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| **ES09-14 (B) Increase Energy Conservation Code Compliance** | The Building Plan Review Division of DPWES Land Development Services has developed and provided training on an Energy Code Compliance Certification/checklist form. 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** | Currently Wastewater Management has achieved recognition in the Virginia Environmental Excellence Program at the E3 level, and has a commitment to achieve the next level of recognition, E4. | Existing staff resources and funding provided in FY 2009 | No additional | N/A |
| **ES10-04 (B) Water Use Reduction in Wastewater Management Program Laboratory** | In 2007, the Lab realized a reduction in deionized water usage by 8,040 gallons per year | Existing staff resources | No additional | N/A |
| **ES10-05 (B) Use Reclaimed Water in the Irrigation System for Noman Cole Pollution Control Plant Landscaping** | The installation of an irrigation system was completed in March 2008, and use began in May 2008. The system is designed for future expansion. | Funding provided in FY 2008 | N/A | N/A |
| **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** | A design and cost estimate is being developed, with assistance from NVSWCD. | Existing resources | N/A | N/A |

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| **ES10-12 (B) "Earth Hour" Event Participation**<br><br>An event to raise energy awareness by turning off non-essential lights and other electrical equipment for one hour. | The cost-benefit of participating in this world wide international outreach event, sponsored by the World Wildlife Fund, is needed. The Board of Supervisors proclaimed 8:30 p.m. on March 29, 2009 as Earth Hour 2009 and encouraged participation by turning off non-essential lights in county facilities and by county residents. | Existing staff resources could be used for preliminary evaluation of county participation | TBD | |
| **ES11-04 (B) Wastewater Treatment Division is Participating in the Energyconnect's Demand Response Program for the Summer 2009 Season** | The WTD staff has begun active participation in the program for the summer 2009 season. The Operation's and Electrical staff worked together to develop an appropriate curtailment strategy to meet the requirements of the energyconnect program. On June 11 the WTD joined with other local energyconnect participants for a curtailment test exercise. | 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 |
| **ES11-06 (B) Window Replacement at Noman M. Cole Jr. Pollution Control** | This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is planned to be implemented in FY10. It was proposed for Energy Efficiency and Conservation Block Grant stimulus funding. | Existing staff resources and funding provided in FY 2010 | 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 |

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| **ES11-08 (B) Establish a Rain Garden Onsite at Wastewater Collections Robert P. McGrath 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 is planning on working with the Northern Virginia Soil and Water Conservation District in the design of the structure and preparing 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 |
| **ES—New Actions** | | | | |
| **ES08-07 (C) Neighborhood Ecological Stewardship Training (NEST)**<br><br>Educates citizens and inspires stewardship through hands-on, multi-discipline experiential activities that connect people to their environment. | 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 environ-mental stewardship initiatives, e.g. ES10-15 (C). | Existing funding used in FY2006 and FY2008. Loss of staff and funding in FY2009-FY2010. | $35,000 For a part-time person and supplies. | I |

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| **ES08-09 (C) Promoting the Use of Natural Landscaping Practices by the Private Sector**<br><br>Public education and engagement to encourage natural landscaping on private property, in conjunction with implementing the Natural Landscaping Plan on county properties. | 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, and 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. | None | $50,000<br>To produce educational materials, install interpretive signs and host workshops | II |
| **ES08-11 (C ) Promoting Stewardship Of Urban Forest Resources**<br><br>Program to build appreciation for trees and urban forests by residents | 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. | None | $100,000<br>Funds will be used to develop an education and outreach plan and to develop and print educational materials. | I |
| **ES09-10 (C) Energy Outreach Program**<br>▪ Residential Energy Audits<br>▪ Distribute free Compact Fluorescent Lamps (CFL's) to county citizens<br>▪ Energy Scholarship for student committed to pursuing education in energy conservation<br>▪ Website & brochures | Outreach program is currently being developed by the county's Energy Efficiency and Conservation Coordinating Committee. Residential energy audits are included in the county's EECBG projects. The county's energy outreach webpage is also being developed. It is anticipated that this program will continue to evolve over time. | None | TBD<br>Residential energy audits proposed for EECBG funding. | II |

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| **ES09-13 (C) Install Energy Management Control Systems in Remaining County Facilities**<br><br>*****Implementation could begin in 2009, but would be a long term project to incorporate into all remaining facilities. | RFP needs to be developed to manage the installation of this many 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 (Gum Springs Community Center and Bailey's Community Center) | None | $4,000,000 for all remaining facilities, or approximately $400,000 for installation in two specific facilities. (EECBG funding proposed for the two facilities) | I/III* |
| **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. | 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. | None | $500,000 needed to perform energy audits in 100 facilities (EECBG funding proposed for some of the audits) | III |

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| **ES10-08 (C) Park Authority RecCenters 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 atmosphere. | None | $900,000 | I |
| **ES10-09 (C) 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 don't have appropriate control system. Upgrading these systems will reduce energy consumption and energy bills and will reduce CO2 emissions to the atmosphere. | None | $700,000 | 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 out doors. This action will save energy uses for HVAC systems, will reduce energy bills, and will reduce CO2 emissions to 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 have 58 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 replacement of old units to high efficient units from 8/10 to 14 SEER rating. | None | Retrofit Cost Estimate: $130,000/year (for every 8 units) and totally, $950,000 (unfunded) during 7 years (for a total of 58 units) | I |

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| **ES10-13 (C) Master Watershed Stewards Certification Program**<br><br>Training in watershed issues, technology and outreach to prepare County residents to participate in watershed plan implementation and other watershed improvement activities. | This is a partnership project with a non-profit group to provide intensive training during eight 2 ½ hour workshops led by specialists in technical and organizational topics. Additional activities, including 24 hours carrying out watershed activities, are required in order to receive certification as a Master Watershed Steward. | Program coordinator provided by Potomac River Greenways Coalition. Existing NVSWCD and DPWES staff would provide support | $40,000 to fund an environmental educator and program expenses | I |
| **ES10-14 (C) Water Conservation Education and Device Distribution Program**<br><br>***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. | ***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. | None | TBD | II |

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| **ES10-15 (C) Environmental Stewardship Matching Grants Program for Watershed Protection and Energy Conservation**<br><br>An environmental stewardship grant program for watershed protection and energy conservation actions by residents, HOAs and schools. | 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 specific 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 pollutants to local waters, increasing biodiversity, habitat and forest resources, counter-acting global warming, conserving water, building community and stimulating environmental stewardship. | None | $75,000 to fund grants and a full-time program coordinator. $25,000 for a pilot project with a temporary part-time coordinator. | I |
| **ES11-09 (C) Wastewater Management Program IT Computer Server Virtualization** | This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is waiting for funding. It was proposed for Energy Efficiency and Conservation Block Grant stimulus funding. | None | $837,500 is needed for equipment. WWM IT staff would perform work | I |
| **ES11-10 (C) Site Lighting Upgrades for Monomedia Filters at Noman M. Cole Jr. Pollution Control** | This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is waiting for funding. It was proposed for Energy Efficiency and Conservation Block Grant stimulus funding. | None | $42,791 is project cost. Submitted for a EECBG; $25,000 grant anticipated; plant staff would perform labor | I |

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| **ES11-11 (C) Mercury Vapor Lighting Replacement at Noman M. Cole Jr. Pollution Control Plant** | This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is waiting for funding. It was proposed for Energy Efficiency and Conservation Block Grant stimulus funding. | None | $15,000 (proposed for EECBG funding) | I |
| **ES11-12 (C) Establish a Green Roof Onsite at Wastewater Treatment Divisions Noman M. Cole, Jr. Pollution Control Plant** | 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. | Existing staff resources. | TBD | N/A |
| **ES11-13 (C) 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. It proposes to upgrade lighting control systems at 11 more facilities. | None | Assessment Cost: $330,000<br><br>This action has been submitted to DOE as one of the EECBG Fairfax County projects | I |
| **ES11-14 (C) Outdoor Lighting and Control System Retrofits** | The Park Authority conducted a study of 300 existing outdoor lighting systems and identified systems that would most benefit from energy efficiency improvements. This action would upgrade those systems. | None | Assessment Cost: $220,000<br>This action has been submitted to DOE as one of the EECBG Fairfax County projects | I |

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