

City of Alexandria, Virginia

MEMORANDUM

DATE: JUNE 12, 2003

TO: THE HONORABLE MAYOR AND MEMBERS OF CITY COUNCIL

FROM: PHILIP SUNDERLAND, CITY MANAGER *PS*

SUBJECT: CITY COUNCIL CONSIDERATION OF THE FY 2002 ANNUAL REPORT FROM THE ALEXANDRIA ENVIRONMENTAL POLICY COMMISSION

ISSUE: City Council consideration of the Fiscal Year (FY 2002) Annual Report from the Alexandria Environmental Policy Commission.

RECOMMENDATION: That City Council receive the FY 2002 Annual Report from the Environmental Policy Commission and thank the Commission and its members for their efforts on behalf of the City.

DISCUSSION: The Alexandria Environmental Policy Commission (EPC) is an advisory body comprised of fifteen citizen members appointed by City Council to provide advice and make recommendations to City Council and, where appropriate, to the Planning Commission and the City Manager on issues relating to clean air, land use, noise pollution and abatement, pesticides, herbicides and contaminants, solid waste, water quality and supply, other topics relating to conservation and protection of environmental conditions, and other such matters referred to the Commission by City Council. The EPC is staffed by the Department of Transportation and Environmental Services (T&ES), Division of Environmental Quality.

The EPC prepared a report which highlights the principal activities of the EPC for FY 2002 (July 1, 2001 through June 30, 2002). Highlights of the Commission's work for FY 2002 include:

- The EPC continued to support the annual Earth Day event during FY 2002 in conjunction with the City Departments of Parks, Recreation and Cultural Activities and Transportation and Environmental Services (T&ES), the Virginia Cooperative Extension, 4-H and the Alexandria Volunteer Bureau.
- The City initiated an Adopt a Block litter-control program that is open to business, government, and community organizations. The EPC was the one of the first applicant's of the program and adopted a section of King Street between I-395 and Quaker Lane.

- EPC members participated in a variety of the committees providing input and assistance from an environmental perspective including the Windmill Hill Park and Open Space Steering Committees.
- The EPC participated in community outreach efforts and provided input and comments on sensitive environmental issues including the Cameron Run Stream Maintenance and sediment removal and the development of the Holmes Run Maintenance Policy and Plan.

ATTACHMENTS: Environmental Policy Commission Annual Report for FY 2002

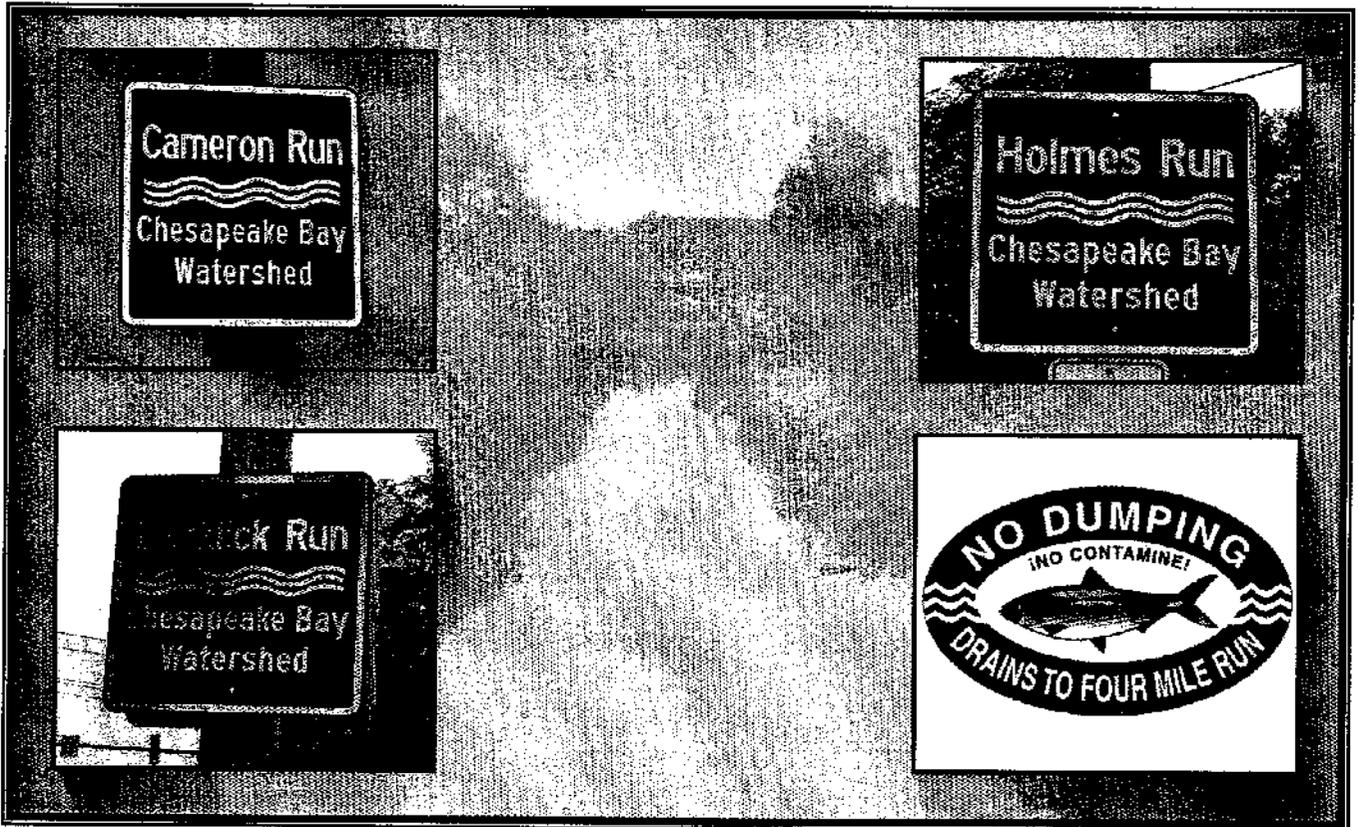
STAFF:

Richard J. Baier, P.E., Director, Transportation and Environmental Services

William J. Skrabak, Division Chief, Environmental Quality

Rose Boyd, Director, Citizen Assistance

Alexandria Environmental Policy Commission



Fiscal Year 2002 Annual Report July 1, 2001 to June 30, 2002

1. Introduction

The Alexandria Environmental Policy Commission (EPC) was established under Chapter 4, Article M, of the City Code to "advise and make recommendations to the City Council and, where appropriate, to the Planning Commission and City Manager." This report provides a summary of EPC's activities during Fiscal Year 2002 (FY02). This report also includes descriptive information on the EPC.

2. Who We Are

In April 1970, million of Americans participated in the first Earth Day. The outpouring of support for the idea of preserving and improving the natural environment led directly to the creation of the U.S. Environmental Protection Agency and many local environmental agencies.

The Alexandria City Council established the EPC in 1970 to advise and make recommendations to the City Council and City Manager, where appropriate, on matters relating to the following:

- Clean air
- Land use
- Noise pollution and abatement
- Pesticides, herbicides and contaminants
- Solid waste
- Water quality and supply
- Other matters referred to the EPC by the City and citizens
- Other topics relating to the conservation and protection of Alexandria's environment

The EPC consists of 15 members and is supported by the City of Alexandria Department of Transportation and Environmental Services (T&ES). The membership of the EPC is composed of the following:

- One member from the field of sanitary engineering
- One member from the field of intergovernmental relations
- One member from the field of urban planning
- One member from the field of ecology
- Two members from the field of environmental science
- One member from the field of engineering
- One member designated by the Alexandria Chamber of Commerce
- Five citizen-at-large members
- One student attending high school in the City of Alexandria
- One lawyer with experience in Federal or State environmental statutes, regulations and procedures

2.1 EPC Membership

The following table provides the names, roles, interests, and expertise of EPC members during FY 2002 (July 1, 2001 to June 30, 2002):

Name	Member Since	EPC Representation	Interests and Expertise
Susan Anderson	April 2001	Citizen Member	Environmental Planning
Ross Bell	June 1998	Citizen Member	Intergovernmental Affairs/ Waterfront Committee
Cynthia Chambers (Chair)	Nov. 1997	Citizen Member	Water Quality
Kevin Connell	Sept. 2000	Sanitary Engineering	Water Quality
Kevin DeBell (Secretary)	June 2001	Citizen Member	Water Quality/Watersheds
Cindy DeGood	April 2001	Environmental Science	Intergovernmental Affairs/ Environmental Restoration
Lisa Edouard	Feb. 1999	Ecology	Regulatory Affairs/Urban Planning
Don Fix	March 2001	Engineering	Water Quality
Robin Hays		Citizen Member	
Laura Hilden	March 2001	Citizen Member	
Kenyon Larsen (1 st Vice Chair)	Oct. 1998	Environmental Science	Haz. Waste/Wetlands/ Environmental Restoration
Doug McMillan	Sept. 1998	Intergovernmental Relations	
Jesse Morales		Student Member	
Paula Potoczak	Jan. 2000	Chamber of Commerce	Law
Molly Theobald (2 nd Vice Chair)	Nov. 1998	Urban Planning	Earth Day
Tom Tyler	Nov. 1994	Law	Environmental Quality of Life
Adam Wilson	April 2002	Intergovernmental Relations	

3. Indicators of Alexandria's Environmental Quality

In an effort to evaluate the progress of the City's environmental quality programs and to illustrate the state of Alexandria's environmental quality of life, the EPC presents the following FY02 indicators. The EPC intends to provide these environmental benchmarks in its annual report each year so trends in Alexandria's environmental quality of life can be tracked.

3.1 Annual Environmental Highlights

Each year several environmental programs or events demonstrate the importance of environmental quality to Alexandrians. The following FY02 environmental highlights provide some insight into Alexandria's environmental quality of life.

- 2002 – Four Mile Run study. The City of Alexandria and Arlington County received a joint grant of \$997,800 from the U.S. Environmental Protection Agency to prepare a design and

engineering study for the restoration of the Lower Four Mile Run stream to make it more accommodating to use by residents and visitors.

- 2002 – WasteWise Program Champion. Alexandria was one of only a few WasteWise partners selected as a “Program Champion” for the WasteWise Electronics Challenge Program, in recognition of the City’s efforts to recycle electronics internally and through a residential recycling program.
- April 27, 2002 – Alexandria Earth Day. Alexandrians converged on Four Mile Run to celebrate Earth Day. Attended by about 450 people.
- Spring 2002 – Inflow and infiltration program. City staff completed surveys of sanitary sewer conditions in the Four Mile Run and Commonwealth sewer service areas. Remediation construction is expected to begin in the Four Mile Run area at the end of calendar year 2003.

3.2 New for FY02

This section highlights new environmental ideas or programs that were started in FY02.

- **Adopt a Block.** The City initiated an Adopt a Block litter-control program that is open to business, government, and community organizations. The EPC was the first applicant to the program and the first recipient of a block for which to care.



EPC members care for their adopted block on King Street on September 21, 2002.

- **Car-sharing Program.** In fall 2001, Alexandria became the first jurisdiction in the region implement a car-sharing program. Car-sharing offers a membership program with a service provider such as Flexcar or Zipcar. Members make reservations to use cars and pick up and return the cars at convenient locations such as Metro stations. Car-sharing provides citizens with the option of not owning a car if they need a car only occasionally. In providing this alternative to automobile ownership, car-sharing encourages the use of public transportation, walking, and bicycling, helps to reduce traffic congestion, and improves air quality. Alexandria presently has car-share vehicles located at King Street Station and on West Street

near Braddock Road Station. Seventy Zipcar members and 115 Flexcar members use the car-share vehicles at these locations. The City offers CarshareAlexandria! to encourage residents and businesses to open car-share memberships with either Flexcar or Zipcar. This incentive program reimburses up to \$105 of the first-year application fee and membership cost for residents and up to \$50 of first-year membership fees and half of each employees' application fee for businesses. To date, 20 residents have received the incentive and no employers have taken advantage of the incentive.

- **Tree Master Plan.** The EPC has been very active in developing a tree master plan for the City. The goal of this activity is to produce a comprehensive strategy for tree management in Alexandria.
- **Alexandria Heritage Trail.** The trail, a 23-mile loop off the Mount Vernon Trail, was launched in June 2002. The trail links Alexandria's many stream valleys, parks, historic museums, and neighborhoods to provide a continuous system for exploring Alexandria's environment and history.
- **Residential Electronics Recycling.** The City was awarded a \$5,000 Solid Waste Management Assistance Grant for development of a pilot program for residential electronics recycling collection. For its pilot activities, the City conducted two one-day collection events, as well as initiation of an ongoing, weekly drop-off collection program. The City offered these collection programs at no cost to residents.

3.3 Alexandria's Environment by the Numbers

Measuring the City's environmental quality of life with accuracy is difficult. Some qualities cannot be quantified. Nevertheless, the following table provides some descriptive statistics for the performance of the City's environmental programs in FY02.

FY 02	FY 01	% Change	Responsible Entity
344 trees planted	380 trees planted	-9.5%	Dept. of Recreation, Parks, and Cultural Activities
2 cleanups of Cora Kelly Park	3 cleanups of Cora Kelly Park	-33.3%	Dept. of Recreation, Parks, and Cultural Activities
2 cleanups of Holmes Run Park	2 cleanups of Holmes Run Park	0	Dept. of Recreation, Parks, and Cultural Activities
500-1000 shoreline and wetland plants planted in Ben Brenman Park retention pond to assist with nutrient removal from storm runoff	Not reported		Dept. of Recreation, Parks, and Cultural Activities
140,000 pounds of Potomac River shoreline debris removed from city parks	Not reported		Dept. of Recreation, Parks, and Cultural Activities
168,224 tons of waste picked up (waste + recyclables)	144,949 tons of waste picked up (waste + recyclables)	+16.1%	Solid Waste Division
33,448 tons of waste recycled [#]	25,349 tons recycled	+31.9%	Solid Waste Division
28.01% recycling rate [#]	17.5% recycling rate	+10.5%	Solid Waste Division
3,607.52 tons of paper recycled [#]	3,032.99 tons of paper recycled	+18.9%	Solid Waste Division
331.9 tons of scrap metal recycled [#]	242 tons of scrap metal recycled	+37.1%	Solid Waste Division
1,765.24 tons of commingled aluminum, plastic & glass recycled [#]	1,534.23 tons of commingled aluminum, plastic & glass recycled	+15.1%	Solid Waste Division
3,976.88 tons of leaves/trees mulched [#]	1,417 tons of leaves/trees mulched	+180.1%	Solid Waste Division
21.58 tons of tires recycled [#]	12 tons of tires recycled	+79.8%	Solid Waste Division
276 tons of auto bodies recycled [#]	1,605 tons of auto bodies recycled	-82.8%	Solid Waste Division
86 bicycles collected for reuse by Pedals for Progress [#]	n/a		Office of Recycling
3,000 tons of construction waste recycled [#]	6,628 tons of construction waste recycled	-54.7%	Solid Waste Division
2.5 tons batteries recycled [#]	4 tons batteries recycled	-37.5%	Solid Waste Division
15,327 dry tons of sewage treatment sludge recycled [#]	17,100 dry tons of sewage treatment sludge recycled	-10.4%	Solid Waste Division
395 drums of household hazardous waste disposed of safely [#]	400 drums	-1.3%	Solid Waste Division
29,136.73 tons of City waste delivered to Waste-to-Energy Plant ^{*#}	27,200 tons of City waste delivered to Waste-to-Energy Plant [*]	+7.1%	Solid Waste Division
134,776 tons of total waste delivered to Waste-to-Energy Plant ^{**}	119,600 tons of total waste delivered to Waste-to-Energy Plant [*]	+12.7%	Solid Waste Division
30 tons of electronics recycled [#]	Not reported		Office of Recycling
11,842 million gallons wastewater treated	Not reported		Alexandria Sanitation Authority ⁺
32.4 million gallons average daily wastewater flow	Not reported		Alexandria Sanitation Authority ⁺
98 million gallons maximum daily wastewater flow	Not reported		Alexandria Sanitation Authority ⁺

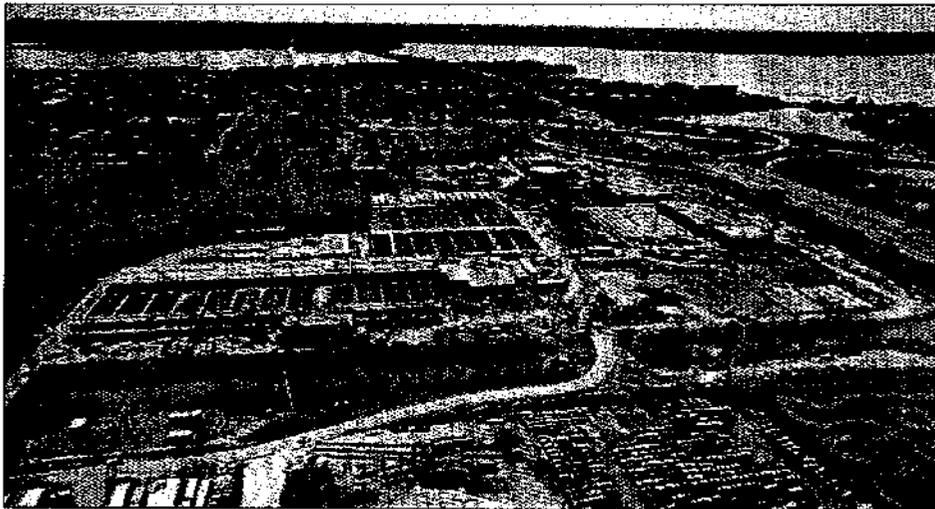
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53,418 wet tons biosolids recycled	Not reported	Alexandria Sanitation Authority [†]
1 sanitary sewer overflow	Not reported	Alexandria Sanitation Authority [†]

Figure represents calendar year 2002

* Final tonnage not yet determined for May and June 2001.

† All Alexandria Sanitation Authority figures determined for October 2001 through September 2002.



Alexandria Sanitation Authority wastewater treatment facility

4. FY02 EPC Highlights

During FY02, the EPC worked with other city commissions and groups to address water quality, energy and open space issues facing the City, and to increase the visibility and importance of environmental issues to city residents. Key highlights of the EPC's activities are described individually below.

4.1 Water Quality Management Supplement to the City of Alexandria Master Plan
 In December 2000 the EPC unanimously endorsed the then-proposed Water Quality Supplement (WQMS) to the City's Master Plan. The Planning Commission and City Council subsequently approved the WQS in January 2001. The WQMS includes a number of action statements. City staff provides regular updates on their progress on implementing these action statements. The City's first progress report is attached to this annual report. The supplement focuses on water and habitat resources, water quality and restoration efforts. The WQMS to the City's Master plan is available from Alexandria's web site at: <http://ci.alexandria.va.us>.

4.2 Holmes Run Stream Maintenance

The City undertook studies on Holmes Run to determine actions necessary to improve the stream itself. The plan included an ecological survey, as well as extensive outreach and stakeholder participation. Public meetings were held in December 2001, January 2002 and February 2002 to solicit comments on the findings of the study and to draft a maintenance plan and policy for Holmes Run. Erosion and sediment controls were identified. Herbicides were

used where kudzu was present. The City's plan called for removal of vegetation along the bottom third of the stream bank. The middle third of the band was to keep somewhat more dense vegetation, and the top third more dense. In March 2002 the EPC adopted a resolution in support of the public outreach process and the development of the Holmes Run Maintenance Policy and Plan.

4.3 Cameron Run Stream Maintenance

On September 13, 2001, an EPC Work Session and Community Outreach Meeting was held. The purpose of the meeting was to tour Cameron Run and discuss stream maintenance issues. An Ecological walk- thru was also conducted on October 10, 2001 to identify sensitive areas and plans that may be rare and candidates for planting elsewhere. The environmental survey was led by Mark Kelley, City Naturalist, and Roderick Simmons, Horticultural Specialist. The City has taken steps to address sediment deposition and overvegetation in the Cameron Run flood control channel. These actions have been undertaken to avoid floods and to reduce the price of flood insurance to city policy holders. Maintenance was performed by the City in winter 2001-2002, which is the period that is least disruptive to the environment.

4.4 Potomac Yard Trunk Sewer

The City undertook the construction of a trunk sewer from Potomac Yards to the Alexandria Sanitation Authority wastewater treatment plant. The line is designed to accommodate existing and future flows estimated at 9.5 million gallons per day. Micro-tunneling was used to reduce the impact of construction on traffic and on residential life.

4.5 Earth Day

Each spring the City hosts an Earth Day celebration. This year Molly Theobald led the EPC's efforts in support of Earth Day. The City's observation took place on April 26, 2003, at Four Mile Run.

4.6 Windmill Hill Park

In May 2001, public meetings were held to present comments to City boards and commissions, including the EPC, on the concepts and design for Windmill Hill Park. The EPC discussed the proposals and concepts at its May 21, 2001 meeting and voted on five concepts that should be considered in the final park plan and forwarded the concepts to City Council for consideration. In late June 2001, City Council discussed options for the proposed Windmill Hill Park located at the end of Gibbon Street. Council resolved to create a steering committee to help plan the park components with public input. The Steering Committee consisted of nine members including one member representing the EPC. Susan Anderson was selected as the EPC representative to the Committee. The Steering Committee developed a concept plan for the park. In a letter dated February 26, 2002, the EPC expressed support for the proposed concept plan.

4.7 Open Space Assessment

A review and assessment of open space conditions in the City of Alexandria was initiated during FY 2001 as a follow-up to the City's 1998 Quality of Life Summit. Under the leadership of the

Parks and Recreation Commission, during the spring of 2001 community meetings were held in each of the Parks and Recreation Districts to solicit citizen concerns and input regarding open space needs. This process included an Open Space Summit held on June 23, 2001. Attendance at the Open Space Summit surpassed 100 people. The comments will be used to draft an open space report, which will contain recommendations for future action by the City of Alexandria. Additionally, an Open Space Steering Committee was established with representation from the EPC. Cindy DeGrood and Tom Tyler were the EPC representatives on the Steering Committee.

4.8 Environmental Restoration

In the FY02 capital improvement budget, the City included \$100,000 in FY02, FY04, and FY06 for "Environmental Restoration Projects." In testimony to the City Council on the FY02 budget, the EPC supported the City's efforts to include such funding in the budget. After the funding was included, in February 2002, the EPC established an Environmental Restoration Subcommittee to develop a series of proposals for allocating the money. The members of the Subcommittee were Kenyon Larsen (Chair), Ross Bell, Cindy DeGrood and Don Fix. On May 20, 2002, the EPC adopted a resolution recommending that the City apply its environmental restoration monies toward the accomplishment of 17 prospective projects that were developed and prioritized by the Subcommittee. The five projects of highest priority were the Alexandria Surface Water Mapping Project, Windmill Hill Park Stream Restoration, Strawberry Creek at Lake Cook Sediment Forebay, Cameron Run Habitat Restoration, and Hicks Branch Stabilization.

4.9 Alexandria Town Gas - Oronoco Street Outfall Site

City staff provided regular status reports to the EPC concerning the ongoing Site Characterization Work including the installation monitoring wells near the Oronoco Street outfall and conducting dye tests to track the migration of contaminants from the outfall. The site was accepted into the Virginia Voluntary Remediation Program in 2000. The EPC supports the City's ongoing efforts to remediate this site.

4.10 Duke Street to Eisenhower Avenue Connector

EPC members attended community information meetings and tracked the progress of the Task Force studying this citywide issue.

4.11 Flow Control Legislation

In response to a request from Council, the EPC approved and sent a letter to Representatives Paul Gillmor and James Moran in support of the City's position to return flow control authority to certain jurisdictions that have municipally-owned waste-to-energy facilities.

4.12 Recycling Center on Eisenhower Avenue

The EPC adopted a motion in support of the Recycling Center on Eisenhower Avenue.

4.13 FY 2003 City Budget Recommendations

The EPC reviewed the proposed City Budget for items pertaining to environmental issues. The EPC forwarded a letter to Council in support of individual budget items, including environmental restoration, NPDES permitting, land acquisition, environmental crime inspectors and encouragement for energy conservation and continued support for infrastructure.

4.14 Proposed Clermont Cove Development

On October 15, 2001, the EPC passed a motion on the proposed Clermont Cove development that the proposal did not appear to meet the goals of the Chesapeake Bay Preservation Ordinance and the Water Quality Supplement to the City's Master Plan relating to Resource Protection Areas, and the proposal appeared to conflict with the concerns for preservation of open space in the City as identified in the June 1998 Quality of Life Report. Additionally, in January 2002, the EPC adopted a resolution in support of the Director of Transportation and Environmental Service's decision to deny an exception request on the proposed Clermont Cove development.

5. Environmental Policy Commission Retreat

On March 2, 2002, the EPC held a retreat at the Winkler Botanical Preserve to discuss the Commission's goals, roles, vision and mission and how to best serve the City. Members of the Commission and City Staff participated in the retreat.

The Commission's mission statement reads as follows:

The Commission will fulfill its mandate from the City of Alexandria by: 1) establishing environmental goals, 2) proactively improving the City's environmental policies, and 3) monitoring the state of the environment of the City.

Based on the mission of the EPC, the retreat resulted in the identification of the following key issues and priorities for the upcoming year:

- RPAs, open space, and other environmental impacts
- Participation in the City budget process and financing options for environmental projects
- Water quality supplement and Chesapeake Bay Agreement
- Earth Day and public outreach
- Tree master plan
- Environmental restoration
- Stronger connections with other City commissions
- Development of written policies on RPAs, open space, energy efficiency, green infrastructure, smart growth, trees, and pedestrian/bicycle access

Overall, the retreat was effective in helping to focus the commission on goals for the upcoming year and how to accomplish the goals. By working together and in partnership with others in the Community and with City Staff, the Commission can effectively accomplish its roles and responsibilities. The retreat should be continued in the future as a means of reviewing the past year's accomplishments, setting goals for the future and looking at ways to improve the

Commission's processes to continually improve the effectiveness of the Commission in meeting its mission.

6. Attachments

Attached to this Annual Report are several important environmental reports.

1. EPC Attendance Record
2. City Staff Quarterly WQMS Report
3. Alexandria Environmental Restoration Opportunities List

CITY OF ALEXANDRIA
BOARDS AND COMMISSIONS
MEETINGS ATTENDANCE REPORT

JULY 1, 2001 THROUGH JUNE 30, 2002

COMMISSION: Environmental Policy Commission CHAIRPERSON: Cindy Chambers

MEMBER'S NAME	2001						2002					
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Susan Anderson	X	-	X	E	X	X	X	X	U	X	X	X
Ross Bell	X	-	U	E	X	X	X	X	X	X	X	X
Cindy Chambers	U	-	X	X	X	X	X	X	X	X	X	X
Kevin Connell	U	-	X	X	X	X	X	X	X	X	X	X
Kevin DeBell	E	-	X	X	X	X	X	X	U	X	X	X
Cindy De Grood	X	-	X	X	X	E	X	X	X	X	X	X
Lisa Edouard	U	-	X	X	X	X	X	X	X	U	U	X
Don Fix	-	-	X	X	X	X	X	X	X	U	X	X
Robin Hays						X	X	X	X	X	X	U
Laura Hilden	X	-										
Kenyon Larsen	X	-	X	X	X	X	X	X	X	X	X	X
Doug Macmillan	X	-										
Jessie Morales												
Paula Potoczak	X	-	U	X	X	U	X	X	X	U	X	X
Molly Theobald	X	-	X	X	X	X	X	X	X	X	U	X
Tom Tyler	X	-	X	U	X	X	X	X	E	X	X	X
Adam Wilson											X	X

INDICATE: X – FOR PRESENT

E – FOR EXCUSED

U – FOR UNEXCUSED

LIST OF THOSE WHO DID NOT ATTEND 75% OF MEETINGS

Laura Hilden (resigned), Doug McMillen (resigned), Jessie Morales (resigned)

FORM MUST BE SIGNED BY CHAIRPERSON

APPROVED: _____

City of Alexandria, Virginia

MEMORANDUM

DATE: SEPTEMBER 16, 2002

TO: MEMBERS OF ENVIRONMENTAL POLICY COMMISSION

FROM: BILL HICKS, P.E., WATERSHED PROGRAM ADMINISTRATOR
TRANSPORTATION AND ENVIRONMENTAL SERVICES

SUBJECT: UPDATE FROM ENVIRONMENTAL QUALITY

In a September 8, 2000 letter to the City Council the Environmental Policy Commission requested the City keep the EPC updated on the initiatives laid out in the Water Quality Management Supplement.

"The City should also add requirements for City Staff to report quarterly to the EPC and to Council on the status of the ten most important or most urgent action statements. Staff should report to the EPC and Council on all Action Statements annually. The following is a list of the ten highest priority Action Statements identified by the EPC, not listed in any particular order."

This memorandum shall serve for such an update.

1. *The City will incorporate into each Small Area Plan (SAP) a discussion of long range water quality protection strategies, SAP-specific Chesapeake Bay Preservation Area maps, and an SAP-specific analysis of opportunities to protect and improve water quality through development and redevelopment opportunities.*
 - DEQ has been working with long range planners toward this end.
 - One specific example is in the Potomac West / Arlandria where the community planning efforts coincide with Four Mile Run efforts.
2. *The City will establish a multi-agency Environmental Coordinator/Group.*
 - Group members have been chosen from Parks and Recreation, T&ES Maintenance, and Environmental Quality. The kickoff meeting is scheduled for October.
3. *The City will develop a plan stating a preference for using non-chemical alternatives to pesticide and herbicide applications for flood control channel maintenance and pest control.*

- T&ES / DEQ has worked diligently with FEMA to develop a more environmentally friendly maintenance strategy for Holmes Run. This plan was completed in February 2002.
 - The Holmes Run Excavation project is under development at this time. It will be based on the newly developed maintenance strategy.
 - Much of the general guidance presented in the study was used in Cameron Run Excavation project.
4. *The City will use its Chesapeake Bay Preservation Ordinance to maintain existing vegetation and reestablish former vegetation within the buffer area of the City's Resources Protection Areas.*
- DEQ has been and continues to be integrally involved in the site plan review process. It is through this process that the requirements of the Chesapeake Bay Program are implemented, including the protection of our RPAs.
 - DEQ continues to advise businesses, citizens and civic associations of the protections afforded to RPAs.
5. *The City will develop a plan to restore and enhance aquatic habitats for native flora and fauna.*
- This City is currently working to contract with a consultant to walk all our stream corridors and to provide inventory and assessment database of stream health, erosion damage infrastructure conditions. The City has interviewed consultants but there has been no award of contract at this time.
6. *City staff will add to the Supplement specific language and requirements about tree cover, vegetative cover, land permeability, and their relationships to water quality. The City will examine the feasibility of establishing minimum percentage of vegetated space to satisfy the City's revised open space requirements. This should include identifying available land suitable for acquisition by the City for the purpose of creating more open space.*
- The City has been involved in an open space study during the past two years. That study will likely conclude this fall.
7. *The City will continue to meet and exceed the requirements of its permit to operate a combined sewer system (CSS), and seek to eliminate the use of CSS.*
- The City's new CSS / VPDES permit was approved by the VA DEQ early Aug 2001. That permit is valid for five years and includes some new monitoring and modeling efforts as well as ongoing maintenance of the system. DEQ interviewed consultants and awarded a contract to Greeley and Hansen, LLC to aid the City in meeting the permit obligations.
 - Extensive background chemical monitoring will be performed in Hunting Creek in

an effort to develop a model to predict impacts of the CSO on the water quality of receiving waters.

- The City is proactively seeking and making use of opportunities for sewer separation where redevelopment offers such opportunities.

8. *The City will develop, using GIS software or tools accomplishing similar goals, a map(s) or layer map(s) that identify specific environmental resource locations within the City, such as wetlands, waterways, stream corridors and wildlife habitats for species of concern.*

- During this last year DEQ has secured workstations with GIS software and three DEQ staff members have recently attended GIS training.
- DEQ is currently collecting all pertinent environmental information and is developing a strategy to digitize all of this information.

9. The City will continue its sanitary sewer system inspection and maintenance program to reduce the threat of local contamination of local streams from leaking sewer lines.

- The City is continuing its Inflow / Infiltration study in the Commonwealth interceptor sewershed.
- In advance of finalizing this study as opportunities arise to correct problems

10. The City will continue to be a national leader in innovative best management practice (BMP) technologies.

- DEQ continues to work with developers regarding the latest technologies for Best Management Practices.
- DEQ receives and responds to inquiries from around the county regarding BMPs.
- DEQ gave a tour of BMPs to a visiting college class.

11. The City will enact requirements and policies that will protect resource protection areas (RPAs) and water quality meeting the letter and spirit of the Act. The City will incorporate these rules and procedures, such as a water quality impact analysis process, in such a fashion to improve the City's oversight and management of development that encroaches upon RPAs. The City include references to RPA purposes in the Chesapeake Bay Preservation Act and specific directions for policy decisions, such as criteria to be used in assessing any waiver request.

The following are other efforts in which the City is moving forward with the goals of the Water Quality Management Supplement:

1. **Four Mile Run Environmental Restoration Grant (\$1,000,000).** The City has been meeting with Arlington County and the US Army Corps of Engineers (COE). The COE has presented a 905b document. This is a project justification document and allows them to move to request additional monies for the project. The two jurisdictions and the COE

will be meeting monthly to flush out the project.

2. **Four Mile Run TMDL.** The Total Maximum Daily Load study developed by the Northern Virginia Regional Commission (NVRC) was approved by VA DEQ and US EPA in June. The next phase of the work is to develop an implementation plan by December 2003. It appears that NVRC will also perform this work under contract to VA DEQ.
3. **Virginia Chesapeake Bay Grant - Stream Inventory.** DEQ had applied to the Chesapeake Bay Local Assistance Department (CBLAD) for \$75,000 to perform a stream inventory / assessment project. In light of budgetary issues at the state level this grant was not funded. DEQ is planning on funding this project through CIP monies.
4. **City MS4 - VPDES permit.** As required by EPA the City must apply for a National Pollution Discharge Elimination System (NPDES) permit for Municipal Separate Storm Sewer System (MS4) by March 10, 2003. This permit will attempt to tie all stormwater programs and policies outside the combined sewer district together. The City has interviewed consultants to aid the City in this application process. An award will likely be made in October for this work.
5. **Four Mile Run Wetlands Project (Woodrow Wilson Bridge Project (WWBP) mitigation).** This project is underway in Four Mile Run Park. The City has worked diligently with the WWBP and the neighborhoods to see this project begin. Completion of this project is scheduled by next spring.
6. **Chambliss Outfall (WWBP stormwater mitigation).** The City and the WWBP have been coordinating to develop a project in the Dora Kelly Nature Preserve to control storm surge and restore the stream. It is likely that an agreement for such a project will be reached this fall.
7. **Chesapeake Bay Ordinance.** The City is working to update its Chesapeake Bay Ordinance to comply with the new state regulations. The two major changes will be how exceptions are dealt with and the inclusion of all perennial waterbodies as Resource Protection Areas.
8. **Hume Springs Outreach.** DEQ went door to door in the Hume Springs and Lynn Haven neighborhoods to discuss water quality impacts and efforts. Following this DEQ's intern placed markers on all of the storm drain inlets in the areas.
9. **Small Watersheds Grant.** The City, in collaboration with Arlington County, Arlingtonians for a Clean Environment, City of Falls Church, and Northern Virginia Conservation Trust has been awarded a grant to do outreach in the Four Mile Run watershed. This project includes a collaboration with Global Action Plan to develop an empowerment training program to move communities to sustainable attitudes.

Note: The first column in the list below represents the current order of priority of restoration opportunities for the EPC. Priorities were qualitatively determined based on four criteria: 1. Ease of implementation (including resource availability and stage of implementation); 2. Urgency (timing); 3. Environmental benefit/impact; and 4. Public or community involvement.

Priority	Restoration Name	Location	Description	Resources ¹	Contacts
1	Alexandria Surface Water Mapping Project	City-Wide	Map the surface water bodies within the City's boundaries, both digitally and on maps. The effort would coordinate with other jurisdictions to ensure continuity. Considered critical to implementing a watershed approach to all environmental restoration in the City.	A	Bill Hicks, City Staff, 703-519-3400, ext. 166
2	Windmill Hill Park Stream Restoration	Adjacent to Ford's Landing east of S. Union St.	A small stream daylights just east of S. Union St. at the foot of Gibbon St. This stream is very degraded and needs bank stabilization, wetland planting, educational components, and interconnection with the Potomac River.	A, M	Bill Hicks, City Staff, (703) 519-3400, ext. 166 Ross Bell & Susan Anderson, EPC Members
3	Strawberry Creek at Lake Cook Sediment Forebay.	Southern Alexandria: Adjacent to Cameron Run (north side of Eisenhower Ave.)	A sediment forebay (plunge-pool) could be constructed at the mouth of Strawberry Creek to prevent sedimentation into Lake Cooke, reducing the need to dredge the lake as frequently. Native vegetation (hydrophilic or wetland) planting is considered a part of this project.	A, P	Bill Hicks, City Staff, (703) 519-3400, ext. 166 Mary Lu Livingood, Seaport Foundation, (703) 549-7078
4	Cameron Run Habitat Restoration	Southern Alexandria adjacent to, and south of Eisenhower Ave.: between Eisenhower Ave. overpass (upstream) and the I495 overpass (downstream)	The stretch of Cameron Run along the Eisenhower corridor is primarily a flood control channel. Habitat/stream restoration could make this portion of Cameron Run suitable habitat for many species. Restoration opportunities include deepening the southern 1/3 of the channel to create a deeper channel, while creating some wetlands along the northern portion of the channel. Many fish species, including anadromous species, cannot currently pass the four or five weirs on this	A, P	Bob Slusser, Graduate Student, (703) 765-5712 Kenyon Larsen, (703) 461-2448

Priority	Restoration Name	Location	Description	Resources ¹	Contacts
			stretch of Cameron Run. Various fish passage techniques may be implemented to allow both anadromous and non-migratory species the opportunity to establish a wider distribution. Many anadromous fish have been observed at the foot of the first weir.		
5	Hicks Branch Stabilization	Eisenhower Valley tributary to Cameron Run. (Stream 1 of the rail corridor property proposed as Clermont Cove.	A primary tributary and forested wetland area connected to Cameron Run by City property. Ideal for continuous parkway between Cameron Run and Eisenhower Ave./Valley. Stream needs major bank stabilization work and multiple intermittent and perennial tributaries require stabilization to prevent further erosion. Stream energy needs reduction. Needs more infiltration in watershed.	A, P	Bill Hicks, City Staff, (703) 519-3400, ext. 166 Judy Noritake, Parks and Rec., (703) 836-3420
6	Strawberry Run Stabilization	Southern Alexandria: Begins in the Seminary Hills area and flows into Lake Cooke.	Strawberry Run enters Lake Cooke near Cameron Run. This small stream originates in the Seminary Hills area and carries lots of sediment to Lake Cooke. The restoration project would be to conduct bank stabilization and plantings to reduce sediment load to the lake and Cameron Run. This project would allow the City to team with the Seaport Foundation's efforts to restore Lake Cook. North of Duke St. (Franklin Parkway) "real restoration" to bring back natural stream characteristics.	A, P	Mary Lu Livingood and Carl Wilson, Seaport Foundation, (703) 549-7078 Elizabeth Wright
7	Chambliss Street Storm water outfall	Dora Kelly Nature Preserve behind Ford Nature Cr.	2000 linear feet of stream needing restoration. Redesign stormwater outfalls in Dora Kelly Park.	A, M	Bill Skrabak and Bill Hicks, City Staff, (703) 519-3400
8	Old Holmes Run (Holmes Run tributary)	Western Alexandria: Along a small former tributary to Holmes	A former tributary to Holmes Run daylighted on the east side of Pickett St. just north of Duke St. behind the CVS pharmacy. This	A, C	Bill Skrabak, City Staff, (703) 519-3400, ext. 163

Priority	Restoration Name	Location	Description	Resources ⁱ	Contacts
		Run north of the Beatty Library.	currently intermittent stream could be returned to perennial flow if a water source is identified. If perennial, this stream could support additional wetland vegetation and could be an educational component to the library. A bridge from the library over to Holmes Run park (north of the tributary) could give children access to view the wetland and stream.		
9	Hoof's Run Stream Day-Lighting project	Northeastern Alexandria: between Maple and Walnut streets in Rosemont	Take a 1- to 2-block section of Hoof's Run that is currently under ground and remove its cover.	A	Dale Medearis, EPA (202) 564-6607 Bill Hicks, City Staff, (703) 519-3400, ext. 166
10	Back-Lick Run Restoration	Southwestern Alex: Along rail corridor.	Along the portion within Alexandria. Stream bank stabilization. Concrete channel that connects to Holmes Run could be enhanced to allow habitat and fish passage. Reclamation of areas near Van Dorn Ave.	A, P	Larry Breaker, City of Alexandria, (703) 519-3400
11	Journal Papers Stream Restoration	Near Back Lick Run, in the area of Van Dorn Ave.	A stormwater outfall needs restoration and a portion could be daylighted that is currently under a loading/parking area.	A, P	Larry Breaker, City of Alexandria, (703) 519-3400
12	Goat Hill Park	Goat Hill Park back of Warwick Village	Exotic species eradication. Would like to remove restrictive fencing and conduct revegetation to create native meadow.	A, C	Cathy Green - home (703) 548-7961; US DA (202) 694-5541
13	Monticello Park Stream Restoration	South side of bend in Beverly Drive, near Russell Ave.	Remove weirs and rip-rap and replace with more natural stream pond-and-drop energy reducing mechanisms. Conduct bank stabilization and restore natural flood plane in upper portion.	A, C	Bill Skrabak and Bill Hicks, City Staff, (703) 519-3400
14	Forest Park	Seminary Hills area	Stream bank stabilization (pull banks back). Wetland and vegetation stabilization along banks.	P	Bill Dickenson, Seminary Hills Civic Association

Priority	Restoration Name	Location	Description	Resources ¹	Contacts
15	Taylor Run	Chinquapin Dr. southeast of TC Williams HS	Invasive/exotic removal within Chinquapin Park. Some stream bank stabilization and revegetation is necessary.	C	Bill Skrabak and Bill Hicks, City Staff, (703) 519-3400
16	Tree Planting in Arlandria	Northeastern Alexandria: Glebe and Mt. Vernon Streets, near 4-Mile Run	There is a distinct lack of trees lining streams and streets in Arlandria (particularly well-traveled streets like Glebe and Mount Vernon). This project would plant and maintain street-scape trees in this area.	P	Bill Hendrickson, Del Ray Citizen's Association Kenyon Larsen, EPC, (703) 461-2448
17	Lucky Run	Behind Stonegate between Braddock and 395.	2000 feet of stream restoration needed. Could be mitigation site for Hampton development or City project. Also needed is restoration of stormwater retention pond, with wetland vegetation planting.	P, M	Bill Skrabak and Bill Hicks, City Staff, (703) 519-3400

Endnotes:

1. Resource Sources for Completing Each Project Categories (in addition to dollars, resources include materials and staffing):
 - A – (Alexandria) Alexandria City will be responsible for providing the majority of the resources to complete these projects.
 - P – (Partnered) These project are likely to be completed with shared resources; partnering between City/community/organization.
 - C – (Community) These are primarily community based resources such as volunteer staffing and organization.
 - M – (Mitigation) These projects are likely candidates to be conducted as mitigation measures for large development projects (e.g., Woodrow Wilson Bridge, Potomac Yard)