

**VSMP GENERAL PERMIT for
Small Municipal Separate Storm Sewer Systems
Permit # VAR040064**

YEAR 1 ANNUAL REPORT

July 2008 – June 2009

City of Fairfax



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Introduction

In accordance with guidance contained in a letter dated June 28, 2009, from the Department of Conservation and Recreation (DCR), an annual report is hereby submitted for the City of Fairfax General Permit for Small Municipal Separate Storm Sewer Systems (MS4).

The report presents the information requested in items (a) through (m) of the DCR letter. A spread sheet is provided showing activities being conducted under each of the six minimum control measures required for the MS4 program which was updated and submitted to DCR in January, 2009. Several of the activities have supporting documents which are provided in the Appendices C-1 through C-6.

a. Background Information

- 1) City of Fairfax General Permit Number # VAR040064.
- 2) Annual Report Permit Year One: July 1, 2008 to June 30 2009.
- 3) There are no modifications to the City's roles and responsibilities under the permit.
- 4) There have been no new MS4 outfalls added within the City during the first permit year.
- 5) The signed registration statement is included in Appendix A of the report.

b. Status of Compliance

The status of compliance with the permit conditions, and assessment of the appropriateness of the of the identified best management practices, and progress toward achieving the identified measureable goals for each of the six minimum control measures is contained in the Appendix B spreadsheet.

c. Results of Information Collected

The City began a stream monitoring program in 2008, which is conducted by students from the George Mason University Campus in the City of Fairfax. The monitoring sites and results from the stream monitoring program can be seen in Appendix C-2. Insufficient data has been collected to date to determine any trends or perform any meaningful analysis, so no results have been included in the report.

d. Planned Storm Water Activities

Storm water activities planned for the next reporting cycle are as follows:

1. Stream monitoring as described above.
2. Enforcement of annual inspection for privately owned SWM/BMP facilities within the City of Fairfax.
3. Illicit discharge enforcement.

4. Develop GIS layer showing acres treated by SWM/BMP facilities within the city of Fairfax.
5. Street Sweeping
6. Dredging of Ashley Pond
7. Storm Drain Marking Program
8. Inspection of all City owned BMP/SWM facilities.

e. *Program Changes*

There are no changes to report in best management practices or measureable goals permit year one.

f. *Reliance on Other Entity*

The City of Fairfax will not be relying on any other entity to satisfy any permit obligation.

g. *Replacement Programs*

The City does not intend to replace any of the Minimum Control Measures shown in the general permit.

h. *Section 1 B 9 requirements:*

There have been no updates completed to the MS4 Program Plan and no new information regarding the TMDL WLA during permit year one, see attachments shown in Appendix D.

i. *Illicit Discharges Identified:*

The number of illicit discharges identified and the narrative on how they were controlled or eliminated are included in Appendix C-3.

j. *Land Disturbing Activity:*

Information on regulated land disturbing activities is shown in Appendix C-4.

k. *Stormwater Management Facilities:*

All known permanent stormwater management facilities in the MS4 permitted area of City of Fairfax are shown in spread sheet in Appendix C-5.

l. *Agreements:*

There are no new or terminated signed agreements between City of Fairfax and any third party to implement all or portions of the permit's minimum control measures.

m. *Written comments:*

I do not know of the existence of any written public comments received during the public comment period regarding the MS4 Program Plan.



City of Fairfax

10455 Armstrong Street
Fairfax, VA 22030-3630
Department of Public Works
(703) 246-6330
(703) 591-5727 FAX

November 3, 2009

Mr. Doug Fritz, MS4 Program Manager
Department of Conservation and Recreation
Division of Soil and Water Conservation
MS4 Stormwater Permitting
203 Governor Street, Suite 206
Richmond, Virginia 23219

RE: VSMP General permit for small MS4s. VAR040064. City of Fairfax

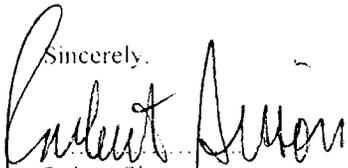
Dear Mr. Fritz:

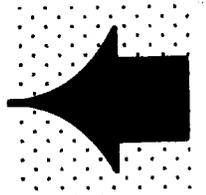
In accordance with 4VAC §50-60-1240 Section H(E)(3) and its VSMP small MS4 permit, VAR040064, enclosed are two copies of the City of Fairfax Year One Annual Report. This report summarizes the City's activities taken towards meeting its measurable goals during the period of July 1, 2008 through June 30, 2009.

"I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations"

If you have any questions or need additional information, please do not hesitate to contact Mr. David Summers of the Public Works Department at (703) 385-7846.

Sincerely,


Robert Sisson
City Manager



Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 1: Public Outreach and Education

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
1.1	Stream Monitoring	Collect data to produce a report that shows trends in stream water quality; publish annual report.	# of reports distributed.	Public Works	Annually	Stream monitoring data	Data collection
1.2	Storm Drain Marker Program	Mark all storm drain inlets in the City of Fairfax.	# of storm drainage markers distributed	Public Works	Annually	Page from City website: Photo of storm drain marker: List of residential subdivisions are marked	Most of the storm drain inlets in residential subdivisions are marked
1.3	City of Fairfax Watershed Management Plan	Post document on City website	# of investigations by public	Public Works	Annually	Executive Summary	On going
1.4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with section 1 E of 4VAC50-60-1200	Public Works	Annually	Annual Report	Compliance with this measurable goal is accomplished by submitting this report.

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 2 Public Involvement and Participation:

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
2.1	Storm Drain Marker Program	Mark all storm drain inlets in the City of Fairfax.	Number of storm drainage markers distributed	Public Works	Annually	Page from City website: Photo of storm drain marker: List of residential subdivisions	Most of the storm drain inlets in residential subdivisions are marked. 240 Storm drain markers distributed to City residents during FY 2009
2.2	City of Fairfax Watershed Management Plan	Post document on City website	Number of investigations by public.	Public Works	Annually	Executive Summary	On going
2.3	Information posted on city website about protecting the environment, watershed management and recycling	Inform city residents about ways to participate in protecting the environment, pollution prevention and proper waste disposal.	Number of inquirers into city website: environment, watershed management and recycling: number of flyers distributed to City residents recycling and waste disposal.	Public Works	On going: Annually	Pages from City website on Environmental protection, recycling and waste disposal poster.	27,292 hits on City website on Environment and Recycling: 10,000 flyers distributed to City residents.
2.4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with section 1 E of 4V.AC.50-60-1200	Public Works	Annually	Annual Report	Compliance with this measurable goal is accomplished by submitting this report.

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 3: Illicit Discharge Detection and Elimination

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
3.1	Storm Sewer System Map	Map all known inlets and outfalls.	Number of outfalls and inlets mapped	Public Works	Ongoing		1840 catch basins and 145 outfalls and 300,000 feet of pipes already mapped into storm sewer layer of City's GIS System
3.2	Storm sewer line and structure maintenance	Provide uninhibited flow for storm water through City drainage system.	Feet of storm sewer, number of structures rehabilitated.	Public Works	Annually		
3.3	Illicit Discharge Detection and Elimination	Use the City's Storm Sewer GIS Layer to track illicit discharges	Number of illicit discharges detected	Code Administration, Zoning Administrator and Public Works	Ongoing		Seven illicit discharges detected.
3.4	Illicit Discharge Detection and Elimination Enforcement Procedures	Issue summons and prosecute violators for negligence or failure to properly report spills	Number of summons issued	Code Administration (Fire Marshall)	As needed	Summons	One summons was issued; violator was found guilty and fined \$250 plus cleanup.
3.5	Report all spills that reach state waters to DEQ and DCR	Ensure that responsible party reports the spill to Department of Environmental Quality Pollution Response Program (PREP)	PREP Number Obtained	Code Administration (Fire Marshall)	In accordance with state regulations	Internal Report	Two incidents were reported to DEQ during FY 2009

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 3: Illicit Discharge Detection and Elimination

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
3.6	Investigate spills and releases from small MS4 operated properties to determine cause and require corrective action to prevent future occurrence.	Completion of internal reports documenting event and corrective action.	Number of reports	Code Administration (Fire Marshall)	As needed	Internal Report	Seven incidents were investigated and internal reports filed.
3.7	Prevent or minimize the discharge of hazardous substances and oil into the storm sewer system.	Provide hazardous waste disposal facility to city residents to prevent these materials from getting into the storm water system. Prevent sanitary sewer overflows.	Tons of hazardous collected	Operations Division	Annually	City DEQ Recycling Report	See City DEQ Report on recycling in appendix C-6 attached
3.8	Sanitary sewer overflows	Prevent sanitary sewer overflows.	Number of sanitary sewer overflows	Utilities	Annually		No sanitary sewer overflows in FY 2009
3.9	Sanitary Sewer Improvements	Provide uninhibited flow for sanitary sewer waste from city homes to treatment facility.	Feet of sanitary sewer lines and vertical feet of sanitary sewer manholes rehabilitated.	Utilities	Annually		4500 feet of sanitary sewer lines and 229 vertical feet of manholes rehabilitated
3.10	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with section 1E of 4VAC 50-60-1200	Public Works	Annually	Annual Report	Compliance with this measurable goal is accomplished by submitting this report.

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 4 Construction Site Stormwater Runoff Control:

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
4.1	City of Fairfax Erosion and Sediment Control Ordinance NO 2006 – 17 of the City Code	Provide site plan review and on site erosion and sediment control inspections	Number of plan reviews, number of inspections and number of enforcement actions	Public Works	Annually	Erosion and sediment control enforcement documents	12 plans reviewed, 94 erosion and sediment control inspections, 42 enforcement actions.
4.2	VSMMP Permits	Require construction site owners and operators to obtain a VSMMP permit from the state for construction activities that result in land disturbance greater than or equal to 2500 square feet.	Number of permits collected	Public Works	Ongoing	Annual Erosion and Sediment Control Report	5 VSMMP permits inspected and collected.
4.3	Training	Require that City inspectors, plan reviewers and program administrator obtain the appropriate certification as required under the Erosion and Sediment Control Law	Certifications obtained	Public Works	Ongoing	Copies of certificates	2 certified inspectors, 1 plan reviewer and 1 program administrator
4.4	Reporting	To track the number of land disturbing plans and acres disturbed.	Number of plans and acres disturbed	Community Development and Planning	Annually	Land disturbing plans and permits quarterly reports.	12 plans and 29.94 acres disturbed.
4.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with section 1 F. of 4V-AC50-60-1200	Public Works	Annually	Annual Report	Compliance with this measurable goal is accomplished by submitting this report.

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 5: Post Construction Stormwater Management in New Development and Redevelopment:

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
5.1	Public Facilities Manual	The city provides information to developers in the Public Facilities Manual (PFM) regarding stormwater and BMP design and requirements. The PFM also references the VA Stormwater Management Program and Handbook as additional resources.	PFM updates	Department of Public Works	Updated as required.	Public Facilities Manual	No updates this year.
5.2	Stormwater Management Ordinance	The city's Stormwater Management Ordinance includes provisions to meet the State stormwater and Chesapeake Bay Program requirements.	Ordinance updates	Planning Department	Updated as required.	Stormwater Management Ordinance	No updates this year.
5.3	Stormwater/BMP Maintenance	The city requires that all facilities be maintained to function as designed. This is accomplished through the requirement that maintenance plans be provided on the approved site plan along with executed stormwater maintenance agreements. In addition, property owners are required to submit an inspection report annually for all stormwater/BMP facilities.	SWM/BMP maintenance plans SWM/BMP maintenance agreements SWM/BMP inspection program	Planning and Public Works Departments	Program is evaluated weekly at the site plan meetings.	Site Plans SWM/BMP maintenance agreements SWM/BMP inspection reports	Updated weekly. 4 agreements executed during FY 08/09. 5 inspections submitted during FY 08/09.

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

Table # 5: Post Construction Stormwater Management in New Development and Redevelopment:

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
5.4	BMP/SWM Tracking	Track all known permanent stormwater management facilities that discharge into the regulated small MS4 and submit the following information: (a) type of structural stormwater management facility installed as defined in the Virginia Stormwater Management Handbook; (b) Geographic location (HUC); (c) where applicable the impaired surface water into which the stormwater management facility is discharging; (d) number of acres treated.	Number and type of BMP/SWM, locations, watershed, acres treated, impaired waters	Planning Departments	Annually	BMP/SWM Spreadsheet	See BMP/SWM Spreadsheet attached in Appendix C-5.
5.5	BMP/SWM Enforcement	Have all BMP/SWM facilities in the City inspected annually. Owners of BMP/SWM facilities are given violation notices and enforcement action taken if BMP/SWM inspection report forms are not submitted by due date.	Number of violation notices mailed	Planning Department	Reviewed weekly at site plan meetings.	Violation notices	The violation program started 6/1/09, so we have no notices to report for the past year.
5.6	Stormwater Program Enhancements	The City of Fairfax will continue to enhance stormwater programs to reduce the impacts resulting from new and redevelopment projects on the city's streams. The City of Fairfax will continue to encourage the use of new and innovative stormwater strategies such as low impact development and environmental site design through the site plan process.	Innovative stormwater/BMPs approved on site plans.	Public Works and Planning Departments.	Process is continuous along with site plan reviews.	Stormwater BMPs Spreadsheet.	See BMP/SWM Spreadsheet attached in Appendix C-5.
5.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section 1E of 4VAC50-60-1200.	Public Works	Annually	Annual Report	Compliance with this measurable goal is accomplished by submitting this report.

Annual Report Appendix B: Status of Compliance with permit conditions and program plan elements –FY2009

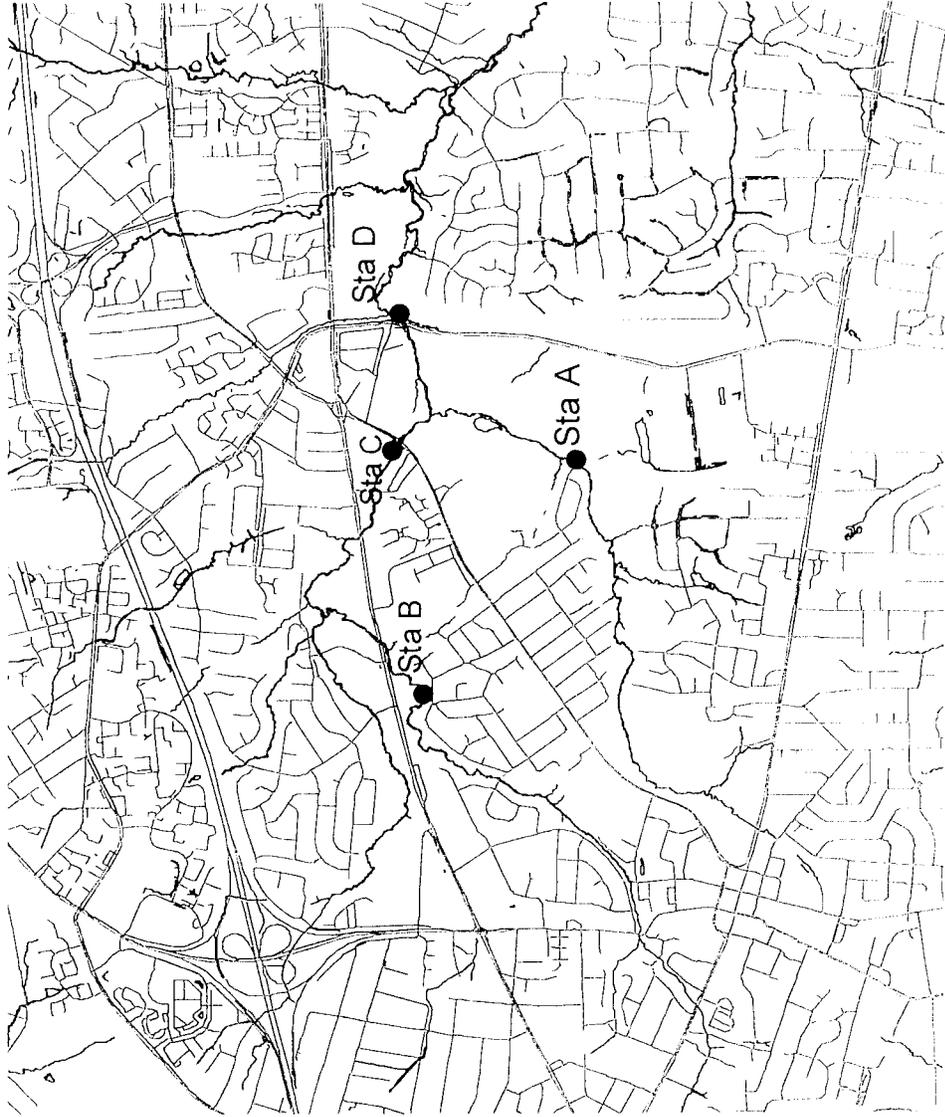
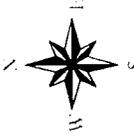
Table # 6: Pollution Prevention/Good Housekeeping for Municipal Operations:

BMP	BMP Description	Measureable Goals	Metric	Responsible Party	Time Line	Associated Document	FY 2009 Status
6.1	Leaf Collection	Prevent leaves from getting into streams and causing blockages, decay and producing nutrients.	Tons of leaves collected	Operations Division	Annually	Leaf collection map and schedule. City of Fairfax DEQ Recycling Report.	2707 tons of leaves collected in 2008
6.2	Yard Waste Collection	Collection of yard waste before it can be transported to the streams by storm water runoff.	Tons of yard waste collected	Operations Division	On going	Waste disposal poster from city website.	7,185 tons of yard waste collected in 2008.
6.3	Pollution Prevention Information posted on city website and flyers distributed to city residents	Inform City residents about pollution prevention and proper waste disposal.	Number of inquirers to city website on recycling and disposal, and number of flyers distributed to City residents	Operations Division	On going	Page from City website on recycling and waste disposal poster.	10,000 flyers on waste disposal distributed to City residents.
6.3	Used Antifreeze Collection	Provide hazardous waste disposal facility to city residents to prevent these materials from getting into the storm water system.	Tons of antifreeze Collected.	Operations Division	Annually	City DEQ Recycling Report	29 tons of antifreeze collected in 2008.
6.4	Used Oil	Provide hazardous waste disposal facility to city residents to prevent these materials from getting into the storm water system.	Tons of used oil collected	Operations Division	Annually	City DEQ Recycling Report	268 tons of used oil collected in 2008
6.5	Education And Training	Train City employees in pollution prevention and good house keeping.	Number of courses provided and number of employees trained	City Risk Manager	Annually	Training Documents	Planned for future program year
		To train City employees in confine space entry.	Number of employees trained	City Risk Manager	On going	Training Documents	25 City employees trained in confined space management.
6.6	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals	In accordance with section 1 E of 4VAC50-60-1200	Public Works	Annually	Annual Report	Compliance with this measurable goal is accomplished by submitting this report.

Appendix C-1

**Exhibits for Minimum Control Measure #1 –
Public Outreach and Education**

Fairfax City Monitoring Sites



***Escherichia coli* Abundances in Selected Fairfax City Streams Reaches For 12 December 2008**

Robert B. Jonas
07 January 2009

Water samples were collect from four stream sites in Fairfax City (Table 1) on 12 December 2008. Samples were collected directly into, clean, sterile, 4 l,

Table 1: Collection Sites for *E. coli* assessment

<p>Site A - Daniels Run at St. Andrews drive Site B - Middle Fork Accotink Creek behind Fire Station Site C - Accotink Creek at Old Lee Highway Site D - Accotink Creek at Pickett Road (exiting city)</p>
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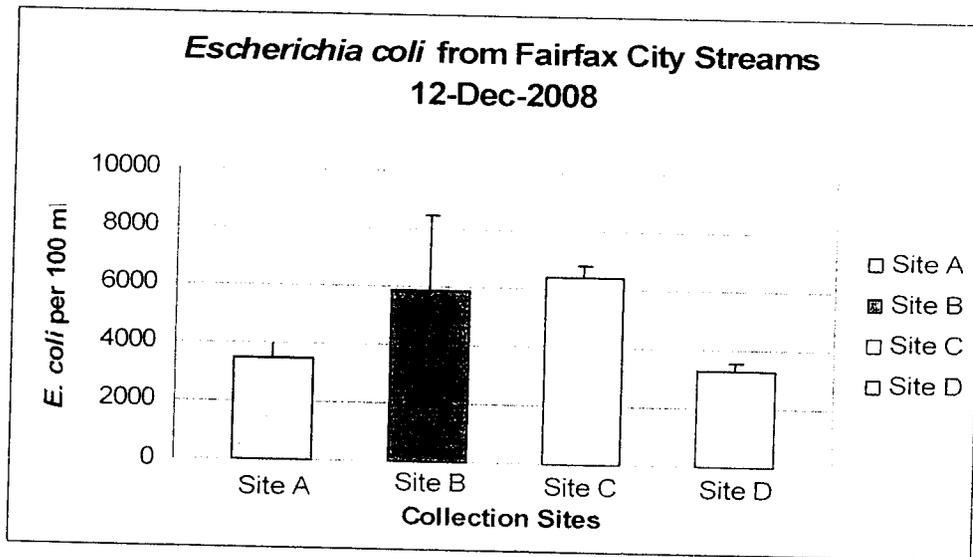
polypropylene screwcapped bottles. These were held in subdued light in an insulated container on ice until returned to the laboratory at George Mason University.

Escherichia coli abundances in all samples were determined using the U.S.E.P.A. Method 1604: Total Coliforms and *Escherichia coli* in Water by Membrane Filtration Using a Simultaneous Detection Technique (MI Medium). Appropriate sample volumes (e.g. 1 ml, 10 ml and 100 ml) were prepared for processing in the laboratory. For sample sizes less than 100 ml, appropriate aliquots were added to sterilized site water so that the final volume was a total of 100 ml. For example, 1 ml of raw sample was added to 99 ml of sterile site water. The 100 ml aliquots containing the appropriate volumes of raw water were then vacuum filtered through sterile, gridded, white, cellulose acetate membrane filters. The filters were placed on MI agar in 50 mm Petri dishes as per Method 1604 and incubated at 35° C for 24 hours. All samples were analyzed in triplicate. Blue colonies on the filters were scored as *E. coli*, and fluorescent colonies as viewed under longwave (366 nm) UV light were scored as “coliforms”. Non-coliforms do not fluoresce and are thus not visible.

Figure 1 summarizes the *E coli* abundances and standard errors at each of the four sample locations. *E. coli* abundances in all of the samples tested exceeded the primary recreational (body contact) *E. coli* water quality standard of 235 per 100 ml. The grand mean of *E coli* abundance for all sites combined was 4,775 per 100 ml and all sites exceeded 3,300 per 100 ml. The highest abundance occurred at Site C - Accotink Creek at Old Lee Highway. Thus, the water quality standard was substantially exceeded at all sites.

Because the method (volumes filtered) were optimized to assess *E. coli* specifically, total coliform colonies were too numerous to count on all of the filters. Since colonies counts of up to 200 per filter are feasible, we can conclude that total coliforms exceeded 20,000 per 100 ml. Total coliform abundances are not used in regulation of surface water quality.

Figure 1: *E. coli* abundance in selected Fairfax City streams on 12 December 2008. U.S.E.P.A. Method 1604 (MI Agar) was used for this analysis.



Fairfax City Monitoring

12-Dec-08

	Station A	Station B	Station C	Station D
Parameter				
Time	0935	0950	0915	1015
Temperature (oC)	5.58	5.93	5.76	5.73
Specific Conductance (umho/cm)	101	176	201	173
Dissolved Oxygen (mg/L)	12.71	12.58	12.61	12.3
Dissolved Oxygen (% saturation)	101.5	100.8	1.2	98.1
pH	6.72	6.92	7.16	6.75
Turbidity (NTU)	28.3	17.2	20.2	23
Nitrate + nitrite (mg/L as N)	1.02	1.29	1.41	1.28
Total phosphorus (mg/L as P)	0.139	0.137	0.160	0.126
Total suspended solids (mg/L)	11.9	8.0	13.1	15.6
Escherichia coli (#/100 mL)	3500	5900	6400	3300
Latitude	38.853075	38.860637	38.861766	38.861645
Longitude	77.279314	77.292603	77.277595	77.269913

Stage height at Station C was 0.5 m

Station Locations:

- Station A: Daniels Run at St Andrews Dr.
- Station B: Middle Fork Accotink Cr off Spring Lake Terr
- Station C: Accotink Cr just above Old Lee Hwy
- Station D: Accotink Cr just below Pickett Rd

Methods

Parameter	Description	Reference
Temperature (oC)	YSI 6600 Datasonde	EPA 170.1
Specific Conductance (umho/cm)	YSI 6600 Datasonde	EPA 120.1
Dissolved Oxygen (mg/L)	YSI 6600 Datasonde	EPA 360.1
Dissolved Oxygen (% saturation)	YSI 6600 Datasonde	EPA 360.1
pH	YSI 6600 Datasonde	EPA 150.2
Turbidity (NTU)	YSI 6600 Datasonde	EPA 180.1
Nitrate + nitrite (mg/L as N)	Cd reduction using Hach Nitruver 5	EPA 353.3
Total phosphorus (mg/L as P)	Persulfate digestion/Ascorbic Acid	EPA 365.2 as modified by Wetzel and Likens
Total suspended solids (mg/L)	Gravimetric with Whatman 984AH filters	EPA 160.1 dried to 80oC
Escherichia coli (#/100 mL)	Membrane Filter/Simultaneous Detection	EPA 1604

Fairfax City Water Quality Assessment - 1
 Sampling Date - 08-12-12
 Agar - M1 agar
 Filter size - 0.45 micron, 47 mm white grided
 incubation temperature - 35 °C for 24 hours

Site A - Daniels Run at St. Andrews drive
 Site B - Middle Fork Accotink Creek behind Fire Station
 Site C - Accotink Creek at Old Lee Highway
 Site D - Accotink Creek at Pickett Road (exiting city)

Sample #	E. coli			*Total Coliforms		
	100 ml	10 ml	1 ml	100 ml	10 ml	1 ml
Site A-1-081212	TNTC	TNTC	34	TNTC	TNTC	TNTC
Site A-2-081212	TNTC	TNTC	43	TNTC	TNTC	TNTC
Site A-3-081212	TNTC	TNTC	28	TNTC	TNTC	TNTC
Mean	TNTC	TNTC	35	TNTC	TNTC	TNTC
Site B-1-081212	TNTC	TNTC	30	TNTC	TNTC	TNTC
Site B-2-081212	TNTC	TNTC	36	TNTC	TNTC	TNTC
Site B-3-081212	TNTC	TNTC	110	TNTC	TNTC	TNTC
Mean	TNTC	TNTC	33	TNTC	TNTC	TNTC
Site C-1-081212	TNTC	TNTC	70	TNTC	TNTC	TNTC
Site C-2-081212	TNTC	TNTC	65	TNTC	TNTC	TNTC
Site C-3-081212	TNTC	TNTC	58	TNTC	TNTC	TNTC
Mean	TNTC	TNTC	64	TNTC	TNTC	TNTC
Site D-1-081212	TNTC	TNTC	30	TNTC	TNTC	TNTC
Site D-2-081212	TNTC	TNTC	32	TNTC	TNTC	TNTC
Site D-3-081212	TNTC	TNTC	37	TNTC	TNTC	TNTC
Mean	TNTC	TNTC	33	TNTC	TNTC	TNTC

*Total coliforms including E. coli

Fairfax City Monitoring

25-Mar-09

Parameter	Station A	Station B	Station C	Station D
Time	1200	1140	1125	1210
Temperature (oC)	5.20	4.84	4.75	5.80
Specific Conductance (umho/cm)	2393	491	706	1095
Dissolved Oxygen (mg/L)	17.67	21.19	14.56	14.53
Dissolved Oxygen (% saturation)	140.0	164.5	113.5	116.7
pH	7.90	8.73	7.11	7.57
Turbidity (NTU)	<1	<1	<1	<1
Nitrate + nitrite (mg/L as N)	0.44	0.37	0.98	0.81
Total phosphorus (mg/L as P)	0.037	0.032	0.063	0.053
Total suspended solids (mg/L)	4.8	4.6	4.8	5.8
Escherichia coli (#/100 mL)	7	420	42	6
Latitude	38.853075	38.860637	38.861766	38.861645
Longitude	77.279314	77.292603	77.277595	77.269913

Stage height at Station C was 0.5 m

Station Locations:

- Station A: Daniels Run at St Andrews Dr
- Station B: Middle Fork Accotink Cr off Spring Lake Terr
- Station C: Accotink Cr just above Old Lee Hwy
- Station D: Accotink Cr just below Pickett Rd

Methods

Parameter	Description	Reference
Temperature (oC)	YSI 6600 Datasonde	EPA 170.1
Specific Conductance (umho/cm)	YSI 6600 Datasonde	EPA 120.1
Dissolved Oxygen (mg/L)	YSI 6600 Datasonde	EPA 360.1
Dissolved Oxygen (% saturation)	YSI 6600 Datasonde	EPA 360.1
pH	YSI 6600 Datasonde	EPA 150.2
Turbidity (NTU)	YSI 6600 Datasonde	EPA 180.1
Nitrate + nitrite (mg/L as N)	Cd reduction using Hach Nitrover 5	EPA 353.3
Total phosphorus (mg/L as P)	Persulfate digestion/Ascorbic Acid	EPA 365.2 as modified by Wetzel and Likens
Total suspended solids (mg/L)	Gravimetric with Whatman 984AH filters	EPA 160.1 dried to 80oC
Escherichia coli (#/100 mL)	Membrane Filter/Simultaneous Detection	EPA 1604

Fairfax City Monitoring

22-Jun-09

Parameter	Station A	Station B	Station C	Station D
Time	1110	1055/1140	1030	1130
Temperature (oC)	19.99	20.45	20.00	21.92
Specific Conductance (umho/cm)	232	349	425	346
Dissolved Oxygen (mg/L)	8.00	8.15	7.82	7.81
Dissolved Oxygen (% saturation)	88.0	90.5	86.1	89.3
pH	7.06	7.29	7.18	7.07
Turbidity (NTU)	1.3	1.2	3.2	4.5
Nitrate + nitrite (mg/L as N)	0.37	0.45	0.52	0.47
Total phosphorus (mg/L as P)	0.052	0.037	0.031	0.023
Total suspended solids (mg/L)	4.1	3.6	4.6	7.5
Escherichia coli (#/100 mL)	105	103	60	61
Latitude	38.853075	38.860637	38.861766	38.861645
Longitude	77.279314	77.292603	77.277595	77.269913

Stage height at Station C was 2.5 m

Station Locations:

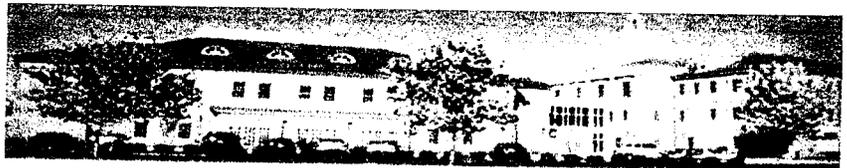
- Station A: Daniels Run at St Andrews Dr.
- Station B: Middle Fork Accotink Cr off Spring Lake Terr
- Station C: Accotink Cr just above Old Lee Hwy
- Station D: Accotink Cr just below Pickett Rd

Methods

Parameter	Description	Reference
Temperature (oC)	YSI 6600 Datasonde	EPA 170.1
Specific Conductance (umho/cm)	YSI 6600 Datasonde	EPA 120.1
Dissolved Oxygen (mg/L)	YSI 6600 Datasonde	EPA 360.1
Dissolved Oxygen (% saturation)	YSI 6600 Datasonde	EPA 360.1
pH	YSI 6600 Datasonde	EPA 150.2
Turbidity (NTU)	YSI 6600 Datasonde	EPA 180.1
Nitrate + nitrite (mg/L as N)	Cd reduction using Hach NitraVer 5	EPA 353.3
Total phosphorus (mg/L as P)	Persulfate digestion/Ascorbic Acid	EPA 365.2 as modified by Wetzel and Likens
Total suspended solids (mg/L)	Gravimetric with Whatman 984AH filters	EPA 160.1 dried to 80oC
Escherichia coli (#/100 mL)	Membrane Filter/Simultaneous Detection	EPA 1604



Official Website



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Environment

- Environment - Home Page
- Flood Plans
- Streams
- Storm Water Management
- Watershed Management Planning

Home Energy Use

- Energy Saving Tips for Homeowners

Protecting Our Water Resources

- Protecting Our Water Resources
- What Citizens Can Do
- Virginia Pollution Discharge Elimination System Permit

Students making a difference

- Students & Community
- What Kids Can Do
- Website Links for Students

How citizens can help to protect the city's streams

Get Involved. This is one of the most important things you can do to help protect the city's streams and creeks. Make an effort to find out what is going on in your community regarding water quality issues. You can do this by attending public meetings, joining a local watershed organization or scheduling a time to meet with local officials. You can also sign up through the city's eMAS program to be notified of upcoming environmental events. . The City encourages you to ask questions and get involved. To find out more about how you can help contact the [SpecialProjectsEngineer](#).

How you can help:

Dispose of household and automobile chemicals and other waste products properly. Dispose of your home chemicals such as paint, solvents, cleaning agents, motor oil, antifreeze, batteries and mercury properly. Never pour any of these materials into a sewer or storm drain. The homeowner must take pesticides, oil-based paint, gasoline, thinner and other hazardous waste to the Fairfax County transfer station located at 4618 West Ox Road. For more information refer to the city's website at www.fairfaxva.gov/refuserecycling/RefuseRecycling.asp or call 703.385.7995.

Dispose of pet waste properly. Clean up pet waste. Pet waste that is not disposed of properly may wash into the nearby storm drains and into the local waterways. Animal waste adds harmful bacteria and nutrients to the streams that can be harmful to humans and wildlife.

Do not dump anything into the storm drain. Properly dispose all hazardous materials such as motor oil, paint and antifreeze. Anything dumped into the storm drain eventually reaches the city's streams and the Chesapeake Bay. The City of Fairfax has a volunteer program to help place storm drain markers on storm drains throughout the city. For more information, contact the [SpecialProjectsEngineer](#).

Fix plumbing leaks and conserve water. A tiny leak can add up to a gallon in minutes. Saving water saves you money. For more information, visit Fairfax City's wise water page at: <http://www.fairfaxva.gov/Utilities/WiseWaterUse.asp>

Sweep up debris on sidewalks instead of washing it away with a garden hose. By volume, sediment is one of the largest pollutant sources entering the nation's streams and rivers. The dirt and gravel that runs off our sidewalks and streets has a negative impact on the water quality of the city's creeks and streams.

Drive less. Take the metro, CUE bus, carpool, ride a bike, or plan your trips to be more efficient. You'll save money on gasoline and reduce air pollution. Particles from air pollution also have an impact on water quality.

Keep your car tuned and periodically check for fluid leaks. This keeps oil from leaking onto the ground and can increase gas mileage, saving you money and protecting the environment by reducing water and air pollution.

Wash your car or other outdoor equipment at a commercial carwash instead of at your home. The grease, oil and other chemicals that we wash off these items can run off of our driveways and lawns and enter the storm sewer system and eventually discharge to local streams and rivers. Even the soaps we use to clean these items can cause problems for some aquatic life.

Use cat litter or other absorbents to soak up spills. Never wash spills away with a garden hose. Pour cat litter on oil leaks and other household chemical spills to soak them up.

Properly maintain your septic system. If you have a septic system at your home, it is important to ensure that it is functioning properly.

Around the yard:

Relevant Links

- [Public Works](#)
- [Council of Government](#)

Use less lawn chemicals and always follow the label directions. Rains can wash away your fertilizers and pesticides, which is a big waste for you and toxic for aquatic life. Do not use chemicals on your lawn before it is expected to rain, and try using organic or slow-release products, which are better for your lawn and for the environment. Be conservative with pesticides and herbicides (weed killers) and try natural alternatives. The Virginia Cooperative Extension offers assistance with many services including soil testing and assistance in determining how much fertilizer to use on your lawn and insect, disease and weed control assistance. For more information contact the Virginia Cooperative Extension location in Fairfax County at (703) 324- 5369 or visit Virginia Cooperative Extension Website at: <http://offices.ext.vt.edu/view.cfm?webname=faifax>

Clear street gutters and storm drains of trash, leaves and grass. Trash may clog drains and cause your street to flood in a storm. Leaves and grass wash to our creeks and streams where they decay, reducing the oxygen in the water that fish need to survive. Trash and debris can also cause numerous problems for fish and other aquatic animals.

Compost leaves, branches and grass clippings. Compost makes great mulch for your garden or flowerbed. Leave grass clippings on the lawn as you mow to return nutrients to your lawn. For more information on composting go to: www.fairfaxva.gov/refuserecycling/refuseRecycling.asp#YardWaste

Pick up trash and litter in your yard. Much of the trash in our yards and along roadways will eventually find its way to a stream or river. This not only adds to a streams pollutant level, but fish and some birds can become trapped or choke on some types of trash and die.

Reduce the amount you water your lawn. Lawns need less than an inch of water per week. If it rains an inch, do not water. Try using a rain gauge.

Report illegal dumping activities. If you see anyone dumping materials into the storm sewer or stream, contact the City of Fairfax Fire Marshall at 703-385-7830 or the Police Department at 703-385-7924.

Download yard care guidelines from:
<http://www.dcr.virginia.gov/sw/docs/yardcare.pdf>

For more information on environmental issues, check out the below links:

- VA Department of Conservation and Recreation www.dcr.state.va.us/
- VA Department of Environmental Quality www.deq.virginia.gov/watershed/
- US Environmental Protection Agency www.epa.gov/
- Chesapeake Bay Foundation www.cbf.org/
- Center for Watershed Protection www.cwp.org/
- Storm water Manager's Resource Center www.stormwatercenter.net/
- Only Rain Down the Storm Drain onlyrain.org/

FOR MORE INFORMATION

Thank you for interest in helping the City of Fairfax protect our streams and the environment. If you would like additional information on the City's environmental programs or on how you can help, contact:

City of Fairfax, Virginia
Department of Public Works
10455 Armstrong Street
Fairfax, Virginia 22030
Phone: (703) 385-7816
Fax: (703) 591-5727
E-mail: SpecialProjectsEngineer@fairfaxva.gov



City Hall
10455 Armstrong St.
Fairfax, Virginia 22030
Other Gov't Offices.

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City of Fairfax



STUDENTS making a difference in the City of Fairfax

Students at James Run Elementary helped the City of Fairfax create storm drain markers. First graders all the way to fifth graders helped to contribute to the first storm drain marker that can now be seen all across the city.

Students at James Run Elementary helped the City of Fairfax create storm drain markers. First graders all the way to fifth graders helped to contribute to the first storm drain marker that can now be seen all across the city.



Photo of teacher & students at James Run Elementary installing a storm drain marker provided by the City of Fairfax.

Relevant Links

- [City of Fairfax](#)
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Students making a difference

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What can kids do to protect our water resources?

- **Clean up after your pets.** Pet waste that is not disposed of properly may wash into the nearby storm drains and into the local waterways. Dog waste adds harmful bacteria and nutrients to the streams that can be harmful to humans, pets, and wildlife.
- **Never put anything down a storm drain.** Those big holes in the curbs, called storm drains, lead directly to the City's creeks and streams. Get your school, youth group, or family to volunteer to place storm drain markers on storm drains in your neighborhood. The markers, designed by students at James Run Elementary School, help to educate residents about the importance of not dumping anything down the storm drains. Contact the Special Projects Engineer at 703-385-7816 for more information on how you can help.
- **Report dumping activities.** If you see anyone dumping materials into the storm drain or stream, contact the City of Fairfax Fire Marshall at 703-385-7830 or the Police Department at 703-385-7924.
- **Don't litter.** This means that you should never throw any trash like cups, paper, tissues and candy wrappers on the ground. Ask your family members not to litter too. When it rains the litter washes down the storm drains to the city's streams where it degrades the quality of the water and can harm animals.
- **Compost or properly dispose of leaves and grass clippings.** Keep your leaves and grass clippings out of the streets so that they do not end up washing into the storm drains.

Helpful Student Links: here are some ways to get involved starting today

- [Virginia Department of Environmental Quality](#) [www.deq.state.va.us](#)
- [Chesapeake Bay Program](#) [www.chesapeakebay.net](#)
- [US Environmental Protection Agency](#) [www.epa.gov](#)

FOR MORE INFORMATION

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City of Fairfax, Virginia
 Department of Public Works
 10155 Armstrong Street
 Fairfax, Virginia 22031



City of Fairfax, Virginia
Watershed Management Plan

Final Report

July 2005

Prepared by:

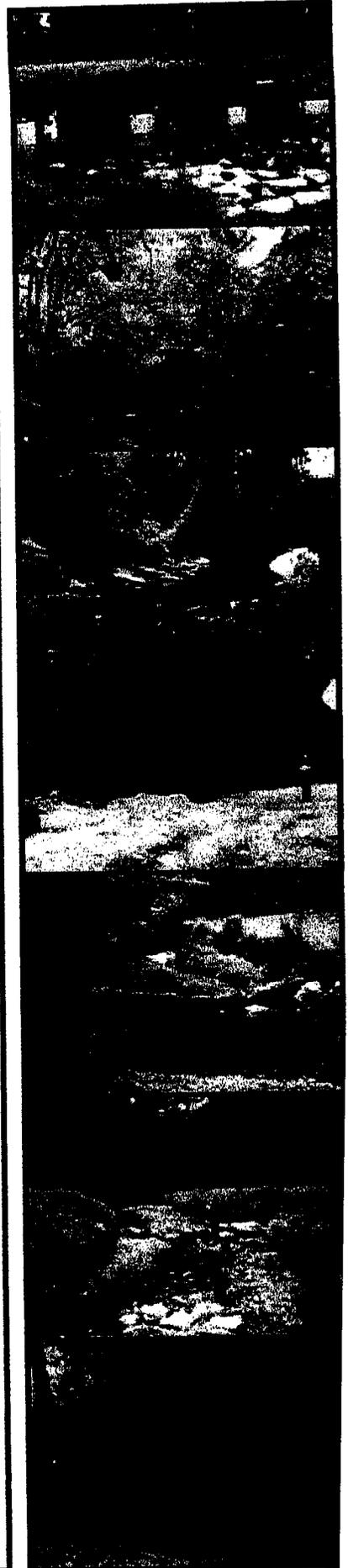


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Executive Summary

Introduction

The City of Fairfax, Virginia lies in the Accotink Creek watershed in Northern Virginia. The City is approximately six square miles, and is surrounded by Fairfax County. Accotink Creek and its tributaries within the City of Fairfax are important natural resources that provide recreational and aesthetic values that enhance the quality of life in the City. Many of the streams in the watershed are degrading as a result of the urban storm flows off of paved areas. The primary cause of stream degradation in the City of Fairfax is directly related to elevated volumes of uncontrolled stormwater runoff. Stormwater runoff impacts are common problems in highly urbanized areas. The City of Fairfax is characterized by commercial and high and low-density residential development that accounts for greater than 60% of total land use. Major transportation routes include Route 29 (Lee Highway), Route 236, and Route 123 (Chain Bridge Road). The City has approximately 70 miles of roadway, with approximately 50 miles (75 percent) served by the stormwater drainage system.

Increased stream flows impact the natural stream channel morphology, which affects the physical, chemical, and biological integrity of the stream. Stream bank erosion, which increases with increased stream flows, can lead to bank instability and increased sediment loading to the stream. This increased sediment load may cause water quality degradation and have negative impacts on fish, benthic invertebrates, and other aquatic life in the stream. If the stream flows into a waterbody used as a drinking source, expensive treatment procedures may be needed to remove the excessive sediment. In addition to problems associated with channel erosion, increased stream flows can scour stream beds, removing benthic organisms and aquatic habitat. Furthermore, surface runoff from impervious areas in the watershed may transport pollutants associated with developed areas, including, metals, organics, and other toxics which negatively impact the water quality of the receiving stream.

Field Assessments

As part of this study two field assessments were conducted, Stormwater System Survey and the Stream visual assessment. Stormwater system survey included a survey of existing stormwater structures to locate, inventory, and characterize the existing stormwater infrastructure in the City of Fairfax. Results of the stormwater infrastructure survey are detailed in a separate report entitled “Stormwater System Survey and GIS Mapping for City of Fairfax, Virginia - Phases I and II Final Report” dated August, 2003. However the following is a summary of findings:

- Over 3,600 stormwater structures located within the City of Fairfax were surveyed and characterized.
- A total of 145 stormwater outlet structures were identified and characterized.
- There are no municipally owned stormwater detention facilities in the City.
- There is only one regional facility in the City, located at the Farrcroft residential development.
- Approximately 5% of City downspouts are connected to the City’s storm sewer system. The remaining 95% discharge to the ground surface or underground drains. Most unconnected downspouts discharge to the ground surface, pavement, or soil.
- There are currently 78 known privately owned on-site stormwater detention/retention facilities located in the City.
- The City has had a stormwater detention ordinance since 1974.
- No stormwater master plan or stormwater utility plan currently exists.
- There are currently approximately 78 known privately owned on-site stormwater detention/retention facilities in the City. The majority of these stormwater facilities are either underground pipes or dry ponds.

Stream Visual Assessment. A stream survey was conducted to assess the physical and biological health of streams located within the City of Fairfax. The field survey covered and analyzed every mile of stream within the City including Accotink Creek and its tributaries. Stream assessment results were compiled for a total of 72 stream reaches of variable length, representing all of the streams in the City. Physical and biological metrics specified in the protocols were used to quantify the physical and biological conditions of the streams within the City of Fairfax. It should be noted that biological conditions were evaluated qualitatively, no macroinvertebrate sampling was conducted to

fully evaluate and quantify the biological conditions in the streams, and thus these data and information were limited in scope.

The City of Fairfax has completed full restoration projects on 2.2 miles of stream and stabilized 3.8 miles of stream. These stream improvement projects account for about 68% of stream miles within the City boundary; this clearly reflects the City's commitment to improving the stream conditions. Also, the results of the stream survey presented in the next sections show that the stream improvements positively contributed substantially to the physical conditions scores.

Simulation Results

Stream channel velocity data for streams within the City were obtained from the 1999 City of Fairfax Flood Study and analyzed for this watershed management plan. Channel velocity data for approximately 300 cross sections collected throughout the City were available for analysis. For the purposes of this study, two year recurrence storm interval data were evaluated. These data are summarized as follows:

- Approximately 23 (8%) of the measured cross sections had channel velocities greater than 8.0 feet/second.
- Approximately 80 (27%) of the measured cross sections had channel velocities greater than 6.0 feet/second.
- Approximately 150 (50%) of the measured cross sections had channel velocities greater than 5.0 feet/second.

Over 85 % of the 2 year flow velocities exceed 5.0 feet/second. For the purposes of this report, channel velocities that exceeded 6.0 feet/second were selected for evaluation, because channel velocities greater than 6.0 feet/second have the potential to increase channel erosion under normal stream conditions. The high channel velocities observed from these data are good indicators that there is a high potential for channel erosion within the City's watersheds.

Flow frequency analyses were performed on simulated stream flows in order to determine the number of times stream flows associated with existing land use conditions exceeded flows associated with the completely forested condition. Exceedance analyses were performed for three stream locations and for a one year forested peak flow as well as a

ten year average forested peak flow. Comparison of the Accotink Creek and Daniels Run stream flows to the forested condition flows indicated that Accotink Creek flows tend to exceed the forested condition flows more often than Daniels Run. This lower exceedance rate in Daniels Run is attributed to a greater percentage of forested lands (lower impervious land cover) present under existing conditions.

The City should be commended for their persistent pursuit of stormwater improvements over the last decade. Through the recommendations of its stormwater system capital needs study, stream evaluation study, and flood study, the City of Fairfax has implemented stream restoration practices at numerous locations on Accotink Creek. Stream restoration was completed on 2.23 miles of stream and stream stabilization was completed on 3.8 miles of stream for a total of 6.83 miles of stream improvements. Considering that a total of 10.15 miles of stream exist within the City boundary, the City of Fairfax has made significant efforts to stabilize the stream banks to handle the urban stormwater runoff and flows. It is recommended that the City continues on the path of stream restorations and improvements. It is also important to note that results from the stream visual assessment clearly showed that stream with highest scores were located downstream of these restoration and improvement projects. The biological scores indicated that the streams are still stressed. It is anticipated that once the physical conditions are stabilized and the habitat are resorted, the biological integrity will be naturally restored.

Summary and Recommendations

Initially the City of Fairfax watershed management plan setout to answer basic questions related to stormwater and the ongoing degradation of the stream within the city boundary. Mainly, the objective was to estimate the volume of stormwater input to the streams, to assess the stream conditions under these flow conditions, and to make recommendations ranging from changes in regulation to use of structural and none structural BMPs.

As presented in Section 4, the stormwater flow under the existing conditions are at least 70% higher that the forested condition. This increase in stormwater flow is mainly due to the dominance of impervious cover in the City. The SWMM model was used to estimate

the impacts of reducing the impervious cover on the stormwater flows. It was found that a 50 percent reduction in the impervious cover would be required to achieve a significant impact on the stormwater flows. This can be a noble goal to set and part of a long term control plan to reduce the volume of stormwater. However, in reality this type of reduction is significant and will require substantial changes in the regulations and enforcement.

In addition, the stormwater infrastructure survey indicated that the streams are used as an integral part of the stormwater drainage and conveyance system as evident by the presence of extensive system of stormwater drainage pipes and outfalls located in the stream banks. In general controlling the stormwater requires either elimination or reduction of the stormwater at the source or capturing and managing the storm water in the conveyance system through detention or retention to promote infiltration or delaying it to reduce the impacts on the receiving streams.

There are constraints when attempting to address the stormwater control in the City of Fairfax. These include:

- City is built-out; any attempts to control stormwater at the source will have to be accomplished through retrofits.
- Stormwater reduction at the source can be accomplished through LID methods. However these approaches need to be accepted and applied City wide. Currently, the city has no regulations or incentives to promote such methods.
- Space limitation to implement regional controls within the city to control the stormwater.

The City of Fairfax has completed improvement projects on the 70 percent of the stream reaches and these reaches received a reasonably good score for physical conditions when assessed. However, more time is needed for the biological community to get reestablished.

The following are a summary of recommendations for the City of Fairfax:

1. Continue the stream improvement projects. It is important to stabilize the physical conditions and restore the stream habitat prior to restoring the biological integrity of the streams.
2. While working with the watershed committee, concerned citizens, and stakeholders establish a long term goal for reducing the imperviousness in the City through use of LID methods. A reasonable target would be in the range from 10 to 20 percent.
3. Establish incentives for home owners and developers who implement LID or any on-site stormwater controls.
4. Maximize the benefits of the existing stormwater control facilities. This should include onsite or regional sites that exist throughout the City. The goal should be to target detention and controls of the 2-year storm flows since these flows are frequent and are responsible for stream degradation.
5. Review and revise the City of Fairfax existing stormwater ordinance to incorporate the goals and targets recommended in this plan.

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**Exhibits for Minimum Control Measure #2 –
Public Participation**

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City of Fairfax

10455 Armstrong Street
Fairfax, VA 22030-3630

Peter Millard, P.E.
City Engineer
Department of Public Works
(703) 246-6330
(703) 591-5727 FAX
pmillard@fairfaxva.gov

March 21, 2008

Storm Drain Marker Program Volunteers Needed

Dear Civic Association Leader:

As the City continues its annual **Storm Drain Marker Program**, I am contacting the civic association leaders to ask for their support of this program. It is my hope that your association will participate in our efforts to achieve a clean and safe environment.

This program is aimed at protecting the City of Fairfax streams and waterways, and ultimately the Chesapeake Bay, by educating city residents about what can enter the storm drainage system. The success of this program depends on volunteers placing markers on storm structures to draw attention to their location and prevent their misuse.

The City has obtained new self-adhesive markers that do not require the application of glue to the marker before they are affixed to a storm structure. This makes their application process simple and quick. Just peel off the protective paper and the markers are ready to be applied.

I can supply your group with the new markers and a map of storm drain locations in your area where these markers can be applied. Please reply by emailing me at pmillard@fairfaxva.gov or calling 703-246-6330 to indicate if your association would like to receive storm drain markers this year.

I look forward to hearing from you.

Sincerely

A handwritten signature in black ink, appearing to read "P. Millard".

Peter T. Millard, PE
City Engineer



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Environment

- Environment- Home Page
- Flood Plains
- Streams
- Storm Water Management
- Watershed Management Planning

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- Energy Saving Tips for Homeowners

Protecting Our Water Resources

- Protecting Our Water Resources
- What Citizens Can Do
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- Students & Community
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Photo of teacher & students at Daniels Run Elementary installing a storm drain marker. Provided by Mrs. L. Hayes

Relevant Links

- Public Works
- Council of Governments

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- Clean up after your pets- Pet waste that is not disposed of properly may wash into the nearby storm drains and into the local waterways. Dog waste adds harmful bacteria and nutrients to the streams that can be harmful to humans, pets and wildlife.
- Never put anything down a storm drain- (those big holes in the curbs). Storm drains lead directly to the city's creeks and streams. Get your school, youth group or family to volunteer to place storm drain markers on storm drains in your neighborhood. The markers, designed by students at Daniels Run Elementary School, help to educate residents about the importance of not dumping anything down the storm drains. Contact the Special Projects Engineer at 703-385-7816 for more information on how you can help.
- Report dumping activities- If you see anyone dumping materials into the storm drain or stream, contact the City of Fairfax Fire Marshall at 703-385-7830 or the Police Department at 703-385-7924.
- Don't litter!- This means that you should never throw any trash (like cups, paper, tissues and candy wrappers) on the ground. Ask your family members not to litter too. When it rains the litter washes down the storm drains to the city's streams where it degrades the quality of the water and can harm animals.
- Compost or properly dispose of leaves and grass clippings- Keep your leaves and grass clippings out of the streets so that they do not end up washing into the storm drain inlets.

Helpful Student Links: here are some ways to get involved starting today!

- Virginia Department of Environmental Quality www.deq.virginia.gov/kids/
- Chesapeake Bay Program www.chesapeakebay.net/index_students.cfm
- US Environmental Protection Agency www.epa.gov/students/

FOR MORE INFORMATION

Thank you for interest in helping the City of Fairfax protect our streams and the environment. If you would like additional information on the City's environmental programs or on how you can help, contact:

City of Fairfax, Virginia
Department of Public Works
10455 Armstrong Street
Fairfax, Virginia 22030

Phone: (703) 385-7816
Fax: (703) 591-5727
E-mail: SpecialProjectsEngineer@fairfaxva.gov



City Hall
10455 Armstrong St.
Fairfax, Virginia 22030
Other Gov't Offices:

Information Provided by Special Projects Engineer; 703.385.7816
[City Code](#) | [Contact Us](#) | [Privacy Policy](#) | [Search](#) | [Site Explanation](#)

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List of Services

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Environment

- Environment - Home Page
- Flood Plains
- Streams
- Storm Water Management
- Watershed Management Planning

Home Energy Use

- Energy Saving Tips for Homeowners

Protecting Our Water Resources

- Protecting Our Water Resources
- What Citizens Can Do
- Virginia Pollution Discharge Elimination System Permit

Students making a difference

- Students & Community
- What Kids Can Do
- Website Links for Students

How citizens can help to protect the city's streams

Get Involved. This is one of the most important things you can do to help protect the city's streams and creeks. Make an effort to find out what is going on in your community regarding water quality issues. You can do this by attending public meetings, joining a local watershed organization or scheduling a time to meet with local officials. You can also sign up through the city's eMAS program to be notified of upcoming environmental events. The City encourages you to ask questions and get involved. To find out more about how you can help contact the [SpecialProjectsEngineer](#).

How you can help:

Dispose of household and automobile chemicals and other waste products properly. Dispose of your home chemicals such as paint, solvents, cleaning agents, motor oil, antifreeze, batteries and mercury properly. Never pour any of these materials into a sewer or storm drain. The homeowner must take pesticides, oil-based paint, gasoline, thinner and other hazardous waste to the Fairfax County transfer station located at 4618 West Ox Road. For more information refer to the city's website at www.fairfaxva.gov/refuserecycling/RefuseRecycling.asp or call 703.385.7995.

Dispose of pet waste properly. Clean up pet waste. Pet waste that is not disposed of properly may wash into the nearby storm drains and into the local waterways. Animal waste adds harmful bacteria and nutrients to the streams that can be harmful to humans and wildlife.

Do not dump anything into the storm drain. Properly dispose all hazardous materials such as motor oil, paint and antifreeze. Anything dumped into the storm drain eventually reaches the city's streams and the Chesapeake Bay. The City of Fairfax has a volunteer program to help place storm drain markers on storm drains throughout the city. For more information, contact the [SpecialProjectsEngineer](#).

Fix plumbing leaks and conserve water. A tiny leak can add up to a gallon in minutes. Saving water saves you money. For more information, visit Fairfax City's wise water page at: <http://www.fairfaxva.gov/Utilities/WiseWaterUse.asp>

Sweep up debris on sidewalks instead of washing it away with a garden hose. By volume, sediment is one of the largest pollutant sources entering the nation's streams and rivers. The dirt and gravel that runs off our sidewalks and streets has a negative impact on the water quality of the city's creeks and streams.

Drive less. Take the metro, CUE bus, carpool, ride a bike, or plan your trips to be more efficient. You'll save money on gasoline and reduce air pollution. Particles from air pollution also have an impact on water quality.

Keep your car tuned and periodically check for fluid leaks. This keeps oil from leaking onto the ground and can increase gas mileage, saving you money and protecting the environment by reducing water and air pollution.

Wash your car or other outdoor equipment at a commercial carwash instead of at your home. The grease, oil and other chemicals that we wash off these items can run off of our driveways and lawns and enter the storm sewer system and eventually discharge to local streams and rivers. Even the soaps we use to clean these items can cause problems for some aquatic life.

Use cat litter or other absorbents to soak up spills. Never wash spills away with a garden hose. Pour cat litter on oil leaks and other household chemical spills to soak them up.

Properly maintain your septic system. If you have a septic system at your home, it is important to ensure that it is functioning properly.

Around the yard:

Relevant Links

- [Public Works](#)
- [Council of Governments](#)

Use less lawn chemicals and always follow the label directions. Rains can wash away your fertilizers and pesticides, which is a big waste for you and toxic for aquatic life. Do not use chemicals on your lawn before it is expected to rain, and try using organic or slow-release products, which are better for your lawn and for the environment. Be conservative with pesticides and herbicides (weed killers) and try natural alternatives. The Virginia Cooperative Extension offers assistance with many services including soil testing and assistance in determining how much fertilizer to use on your lawn and insect, disease and weed control assistance. For more information contact the Virginia Cooperative Extension location in Fairfax County at (703) 324- 5369 or visit Virginia Cooperative Extension Website at:
<http://offices.ext.vt.edu/view.cfm?webname=fairfax>

Clear street gutters and storm drains of trash, leaves and grass. Trash may clog drains and cause your street to flood in a storm. Leaves and grass wash to our creeks and streams where they decay, reducing the oxygen in the water that fish need to survive. Trash and debris can also cause numerous problems for fish and other aquatic animals.

Compost leaves, branches and grass clippings. Compost makes great mulch for your garden or flowerbed. Leave grass clippings on the lawn as you mow to return nutrients to your lawn. For more information on composting go to:
www.fairfaxva.gov/efuserecycling/refuseRecycling.asp#YardWaste

Pick up trash and litter in your yard. Much of the trash in our yards and along roadways will eventually find its way to a stream or river. This not only adds to a streams pollutant level, but fish and some birds can become trapped or choke on some types of trash and die.

Reduce the amount you water your lawn. Lawns need less than an inch of water per week. If it rains an inch, do not water. Try using a rain gauge.

Report illegal dumping activities. If you see anyone dumping materials into the storm sewer or stream, contact the City of Fairfax Fire Marshall at 703-385-7830 or the Police Department at 703-385-7924.

Download yard care guidelines from:
<http://www.dcr.virginia.gov/sw/docs/yardcare.pdf>

For more information on environmental issues, check out the below links:

- VA Department of Conservation and Recreation
www.dcr.state.va.us/
- VA Department of Environmental Quality
www.deq.virginia.gov/watersheds/
- US Environmental Protection Agency www.epa.gov/
- Chesapeake Bay Foundation www.cbf.org/
- Center for Watershed Protection www.cwp.org/
- Storm water Manager's Resource Center
www.stormwatercenter.net/
- Only Rain Down the Storm Drain onlyrain.org/

FOR MORE INFORMATION

Thank you for interest in helping the City of Fairfax protect our streams and the environment. If you would like additional information on the City's environmental programs or on how you can help, contact:

City of Fairfax, Virginia
 Department of Public Works
 10455 Armstrong Street
 Fairfax, Virginia 22030
 Phone: (703) 385-7816
 Fax: (703) 591-5727
 E-mail: SpecialProjectsEngineer@fairfaxva.gov



City Hall
 10455 Armstrong St.
 Fairfax, Virginia 22030
 Other Gov't Offices.

Information Provided by Special Projects Engineer; 703.385.7816
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Millard, Peter

From: Chen, Rose
Sent: Monday, November 09, 2009 9:21 AM
To: Millard, Peter
Cc: Summers, David
Subject: web page hit data

Peter,

The following are the Environmental and Recycling page hit data for the fiscal year 08-09. Let me know if you have any question.

July, 2008: 2499
Aug. 2008: 2021
Sep. 2008: 1973
Oct. 2008: 2272
Nov. 2008: 2606
Dec 2008: 2264
Jan. 2009: 2282
Feb. 2009: 2073
Mar. 2009: 2364
Apr. 2009: 2846
May, 2009: 2062
June, 2009: 2030

Rose Chen
Web Architect
703.293.7139
rchen@fairfaxva.gov

FOIA Disclaimer
You are hereby advised that, pursuant to the Virginia Freedom of Information Act, written correspondence (including, but not limited to, letters, e-mails and faxes) from and to the City of Fairfax and its officials and employees, and others acting on its behalf, may be subject to disclosure as being a public record. This includes the e-mail address(es) and other contact and identifying information for parties involved in the correspondence.

Appendix C-3

**Exhibits for Minimum Control Measure #3 –
Illicit Discharge Detection and Elimination**



**CITY OF FAIRFAX FIRE DEPARTMENT
OFFICE OF THE FIRE MARSHAL
SPILL OR RELEASE REPORT
FOR HAZARDOUS MATERIAL INCIDENT**

Date of Event: «INCIDENT_DATE»

Date of Report: _____

Time of Event: «DISPATCH_TIME»
«LOC_UNIT» «FULL_ADDRESS»

Location of Incident: «LOC_NUMBER» «LOC_STREET»

F.D. Incident Number: «FD_INCIDENT_»

Companies Responding: «COMPANIES_RESPONDING»

Investigation Number: «FM_REPORT_»

Type of Incident: «TYPE_OF_INCIDENT»

Product released: «ORG_PRODUCT» **Amount:** «ORG_AMOUNT»

What happened to cause the release or spill: «ORG_CAUSE»

Responsible Party: _____

How many injuries occurred during this event if any: «INJ_CIV» Civilians, «INJ_FF» Fire Fighters.

What area was affected by this event? _____

What corrective action has been initiated? «INCIDENT_NOTES»

Where facility procedures violated? _____

Was a Fire Code Notice of Violation Issued: «NOTICE_GIVEN» **Section:** «CODE_SECTION»

Photos taken: «PHOTOS_TAKEN» **Evidence Taken:** «EVIDENCE_TAKEN»

Weather Conditions: «WEATHER», «TEMPERATURE» °F

Status: «DAT_FM_ACTION» **Final Action:** «DAT_FINAL_ACTION»

What other agencies have been notified: «What_other_agencies_have_been_notified»

F.D. Units on scene: «COMPANIES_RESPONDING»

Amount expended: \$ «DOL_EXPENDED_BY_CITY» **Amount Recovered:** \$ «DOL_RECOVER»

Total property loss: \$ «DOL_TOTAL»

This report filed by: «FM_Investigator_Name»

Signature of Investigator: _____ **Date:** _____

Report reviewed by: _____ **Date:** _____

Appendix C-4

**Exhibits for Minimum Control Measure #4 –
Construction Site Stormwater Runoff Control**

Filing No: VN05XXXX



**City of Fairfax
Department of Public Works**

10455 Armstrong St
Fairfax, VA 22030
703 385 7828

Date Issued:
01/01/05

INSPECTION REPORT

To:

An inspection of the site at Location/Address on 01/01/05 revealed the presence of the following violation(s):

The following corrections are required:

Notice is hereby given that the violations stated above shall be corrected on or before **01/01/05** at **9:00 AM**.
The site will be reinspected at that time.

Failure to address the above violation(s) will result in a Notice to Comply and/or Stop Work Order being issued.
Please contact this department if there are any questions.

Inspector _____

Program Administrator _____
Satoshi Eto

Filing No: VN05XXXX

**City of Fairfax
Department of Public Works**

Date Issued:
01/01/05



10455 Armstrong St
Fairfax, VA 22030
703 385 7828

NOTICE TO COMPLY

To:

An inspection of the site at **Location/Address** on **01/01/05** revealed the presence of the following violation(s):
A Inspection Report was sent on 01/01/06.

The following corrections are required:

Notice is hereby given that the violations stated above shall be corrected on or before **01/01/05** at **9:00 AM**.
The site will be reinspected at that time.

Failure to comply with this notice will result in a Stop Work Order, revocation of your work permit, or legal enforcement action by the City of Fairfax to implement the appropriate corrections. City work forces may opt to correct the violation(s), and the associated costs will be deducted from bond or billed to the owner/addressee or permit holder. Please contact this department if there are any questions.

Inspector _____

Program Administrator _____
Satoshi Eto

Filing No: VN05XXXX



**City of Fairfax
Department of Public Works**

10455 Armstrong St
Fairfax, VA 22030
703 385 7828

Date Issued:
01/01/05

STOP WORK ORDER

To:

An inspection of the site at Location/Address on 01/01/05 revealed the presence of the following violation(s).
A Notice to Comply was issued on 01/01/05.

You are hereby ordered to stop all land-disturbing activities on the above referenced project until the specified corrective measures have been taken. If work is not begun to correct this violation by 01/01/05, further legal action will be taken. Upon completion of the corrective action, the order shall be immediately lifted.

The following corrections are required:

Please contact this department if there are any questions.

Inspector _____

Program Administrator _____
Satoshi Eto

Filing No: VN05XXXX



City of Fairfax
Department of Public Works
10455 Armstrong St
Fairfax, VA 22030
703 385 7828

Date Issued:
01/01/05

NOTICE OF WORK PERMIT SUSPENSION

To:

An inspection of the site at Location/Address on 01/01/05 revealed the presence of the following violation(s).
A Notice to Comply was issued on 01/01/01.

[Redacted area]

The work permit pertaining to the above address/location is hereby suspended until futher notice/date.
Please contact our offices to discuss the terms of reinstatement of this work permit. Continuing work in disregard of this notice at the above address/location will be considered performing work without a permit and further legal action will be taken.

Inspector _____

Program Administrator _____
Satoshi Eto

NOTE: A copy of this notice will be posted at the site of infraction within 3 business days of issuance date. An original will follow via certified mail.
White: Permit Holder/Addressee Yellow: Inspector Pink: File

Filing No: VN05XXXX

City of Fairfax

Date Issued:
01/01/05



EROSION AND SEDIMENT CONTROL ORDINANCE SUMMONS

To:

You are charged with violating Virginia Erosion & Sediment Control Law as follows:

Location of Violation: Location/Address

Description of Violation:

Violation of:

VESCL 10.1-563: Land Disturbing Activity without permit/approved plan. \$1,000.00/day

State Minimum Standards (4VAC50-30-40). \$100.00/day per violation

- | | |
|---|---|
| <input type="checkbox"/> MS-1: Permanent/temporary soil stabilization | <input type="checkbox"/> MS-11: Adequate outlet/channel protection. |
| <input type="checkbox"/> MS-2: Soil stockpile stabilization | <input type="checkbox"/> MS-12: Live watercourse protection |
| <input type="checkbox"/> MS-3: Permanent vegetative cover | <input type="checkbox"/> MS-13: Live watercourse crossing |
| <input type="checkbox"/> MS-4: Sediment controls first step in land disturbing activity | <input type="checkbox"/> MS-14: Live watercourse regulations |
| <input type="checkbox"/> MS-5: Earthen structure stabilization | <input type="checkbox"/> MS-15: Live watercourse stabilization |
| <input type="checkbox"/> MS-6: Storage capacity of sediment traps/basins | <input type="checkbox"/> MS-16: Underground utility standards |
| <input type="checkbox"/> MS-7: Cut and fill slope stabilization | <input type="checkbox"/> MS-17: Construction entrance/street condition |
| <input type="checkbox"/> MS-8: Adequate channel for concentrated runoff | <input type="checkbox"/> MS-18: Removal of temporary E&S controls |
| <input type="checkbox"/> MS-9: Adequate drainage for slope face | <input type="checkbox"/> MS-19: Protection of downstream properties/waterways |
| <input type="checkbox"/> MS-10: Storm sewer inlet protection | |

Penalty: \$100.00

You are required to respond by 01/01/05 in one of the following ways:

- To Pay Penalty and Waive Your Right to a Hearing:**
 - Check the "Admit Violation" or "No Contest" box below; checking either of these boxes and signing this ticket is a waiver of trial, is an admission of liability, and has the same force and effect as a court judgment, but is not a criminal conviction for any purpose.
 - Correct the violation and certify that the violation has been corrected by signing below;
 - Make check payable to City of Fairfax. Print filing number noted above on the check. Payment may be made by mail or in person, at: Treasurer's Office, City Hall, 10455 Armstrong Street, Room 208, Fairfax, VA 22030.
- To stand trial for the violation(s) shown on this summons:**
 - Check the "Contest in Court" box below and mail this completed notice to the Dept of Public Works, City Hall, 10455 Armstrong St, Fairfax, VA 22030.

FAILURE TO RESPOND AS NOTED ABOVE WILL RESULT IN THE ISSUANCE OF A SUMMONS TO APPEAR IN COURT

COMPLETE AND SIGN: Admit No Contest Contest in Court

Name: _____

I hereby certify under penalty of law, that I have answered as indicated above, and have corrected the violation that I have admitted to or for which I have pleaded no contest.

Signature: _____ Date: _____

Certificate of Service

I personally observed the violation noted and state that I am an employee of the Department of Public Works, that a true copy of this ticket was mailed to the last known address of the respondent or the respondent's agent and/or posted at the site of the infraction, and know this ticket to be true to the best of my knowledge.

Signature: _____ Date: _____

Director of Public Works _____ Date: _____

NOTE: A copy of this notice will be posted at the site of infraction within 3 business days of issuance date. An original will follow via certified mail.
White: Permit Holder/Addressee Yellow: Inspector Pink: File

City of Fairfax Land Disturbing Plans and Permits
Approved January through April 2009

Date	Street Name	Street Number	Project	Permit Type	Hold With Sta	Date Approved
09-Jan-09	University Dr	4400	Green Acres Elem. School E&S	G-Grading Permit	4.85 acres	09-Jan-09
03-Feb-09	Orchard St	10917	Jamie Macdonald	G-addition	E&S in lieu 2/03/09	03-Feb-09
05-Feb-09	Fairfax Blvd	10960	Auto Zone Inc	G-Grading Permit	1,901 sq ft (D. 1/1)	05-Feb-09
04-Mar-09	Ochard St	10600	Laurence Bradford	G-Grading Permit	0.4 Acres Dist.	04-Mar-09
06-Apr-09	Main St	10631	PNC Bank	G-Grading Permit 10631, 10633, 1064	1.29 Acres Dist.	06-Apr-09
06-Apr-09	Old Lee Hwy	3315	Army Navy Country Club	G-Grading Permit	21.11 Acres Dist.	06-Apr-09

City of Fairfax Land Disturbing Plans and Permits
Approved May 2009

Date	Street Name	Street Number	Owner Name	Telephone #	Project	Permit Type	Disturb Acreage	Date Approved
01-Apr-09	Mosby Rd	10009	Farhad Pazhwak FFX.	Renewal of original 703-324-5857	Farhad Pazhwak FFX. Co. Health Lab	G-Grading Permit - addition	2940 sq ft disturbed <i>0.07 HC</i>	03-Apr-09
08-May-09	Layton Hall Dr	10310	The Co. School	5857		G-Grading	0.68 Acreas	28-Apr-09
04-May-09	Orchard St	10809	Building	Renewal of original 571-437-7474	Mike Mafi	G-Grading	3/4 Acres	04-May-09
15-May-09	Main St	9701	Apple Fed. Credit	703-679-1274	Apple Fed. Credit Union	G-Grading Permit	0.25 Acres	15-May-09
None								None for June 09
None								None for July 09

City of Fairfax Land Disturbi Permits
Approved August 2009

Date	Street Name	Street Number	Owner Name	Telephone	Project	Permit Type	Disturb Acreage	Date Approved
04-Aug-09	Walters Ct	4020	Rex Boyton, Lyn Kerry	703-303-7848	New Home SFD,	G-Permit	13,492sq.ft. acres dist. <i>0.31 HC</i>	04-Aug-09
11-Aug-09	Second St	10819	Vornador	703-309-7633	Vision Homes/ new home	G-Permit	<i>0.19 HC</i> 8,313sq.ft. acres dist.	11-Aug-09
None								None for Sept. 09

Appendix C-5

**Exhibits for Minimum Control Measure #5 –
Post-Construction Stormwater Management in New Development and
Re-development**

<u>PROJ TYPE</u>	<u>PARCEL#</u>	<u>ADDRESS</u>	<u>FY</u>	<u>PROJECT DESCRIPTION/SWM/BMP TYPE AND NUMBER</u>	<u>TOTAL ACRES TREATED</u>
SWM/BMP	57 4 09 036	4020 WALTERS CT	08/09	INFILTRATION TRENCH 25' X 5' X 4' TREATING DA OF 0.41 ACRE.	0.41
SWM/BMP	57 1 02 041	10980 FAIRFAX BLVD	08/09	FOR FILTERRA WATER QUALITY STRUCTURE 6'X6' DA 0.18 AC	0.18
SWM/BMP	57 2 02 173	10310 LAYTON HALL DR	08/09	FAIRFAX CO. HEALTH LAB- SWM/BMP AGREEMENT- 6'X8' FILTERRA DA 1.01 AC.	1.01
SWM/BMP	57 1 02 063	10700 FAIRFAX BLVD	08/09	FILTERRAS 4'X6'/DA: F-1:0.1 F-2:0.07.F-3:0.14,F-4:0.14,F-5:0.13 (0.58)	0.58
SWM/BMP	57 2 02 190	3610 OLD LEE HWY	08/09	RAIN GARDEN TREATING 1.49 ACRES	1.49
SWM/BMP	48 3 06 015	9509 FAIRFAX BLVD	08/09	STORMFILTER TREATING 0.33 ACRES	0.33

SWM/BMP INSPECTION REPORT

FOR CITY USE ONLY

LOCATION OF SWM/BMP:	ACCEPTED () MAINTENANCE ()
ADDRESS OF SWM/BMP :	QUESTIONS () REPAIRS ()
	DATE: ___/___/___
	REVIEWED BY: _____
OWNER OR MANAGEMENT CO.:	PHONE # : _____
ADDRESS:	
INSPECTION COMPANY :	PHONE # : _____
ADDRESS :	
INSPECTOR NAME (print) :	PHONE # : _____
INSPECTOR SIGNATURE :	DATE # : _____

TYPE OF BMP

Bio-detention ()	Dry Pond ()	Wet Pond ()	Infiltration Trench ()	Underground Detention ()
Storm Ceptor ()	Sand Filters ()	Green Roof ()	Filtterra ()	Vegetated Swale ()

Other, describe :

Inspection Checklist

	Yes	No	N/A
Structural Integrity:			
Does the facility show any signs of settling, cracking, bulging, misalignment, or any other structural deterioration?			
Do embankment, emergency spillways, side slope, or inlet/outlet structure show signs of excessive erosion or slumping?			
Is the inlet and outlet pipe damaged or otherwise not functioning properly?			
Do impoundment and inlet areas show erosion, low spots, or lack of stabilization?			
Are trees or saplings present on the embankment?			
Are animal burrows present?			
Are contributing areas unstabilized with evidence of erosion?			
Do grass areas require mowing and /or are clippings building up?			
Working Conditions			
Are cartridge filters, sand filters, filtterra boxes, and other filters clogged?			
Provide date of last filter replacement. (/ /)			
Is water quality orifice, weir, grate, trash rack completely clear of debris and completely open?			
Does the depth of sediment or other factors suggest a loss of storage volume?			
Is there standing water in inappropriate areas, such as on filters or cartridges after a dry period?			
Is there an accumulation of floating debris and/or trash?			
Other Inspection Items			
Is there evidence of encroachments or improper use of impoundment areas?			
Do the fence gate or other safety device need repair?			
Is there excessive algae growth or has one type of vegetation taken over the facility?			
Is there evidence of oil, grease, or other automotive fluids entering and clogging the facility?			
In rain gardens, is there evidence of soil erosion, does mulch cover the entire area, is specified number and types of plants still in place, or is there evidence of disease or plant stress from adequate or too much watering?			
Is there evidence of fish kill?			

List of Stormwater Management Facilities in the MS4 Permitted Area of City of Fairfax

Street No.	Location in Fairfax	Property Name	Management Address	Type of Detention	Comments
10455	Armstrong St	City Hall Expansion	City of Fairfax	Dry Pond	
10446-62	Armstrong St	Inns of Court, #462	Sequoia Management, 13998 Parkeast Cir., Chantilly 20151-2283	u/g CMP	
	Breckenridge Lane, Fairfax, VA 22030	Courthouse Square II #545	Breckenridge Lane HOA, c/o Brian Knapp, 10451 Breckinridge Lane, Fairfax, VA 22030	Dry Pond	
	Burke St./ Kirktree Court	Kirktree Court, #679	Kirkwood HOA Thomas Camey, Pres 9806 Kirktree Court Fairfax VA 22032	U/g CMP	
10615	Canfield St	Providence Park	City of Fairfax Parks & Rec., 10455 Armstrong St., Fairfax, VA 22030	Dry Pond & Bioretention	
10508-12	Center St	Carriage Landing	Sekas Homes	Dry Pond	
3554	Chain Bridge Rd	3554 Chain Bridge Rd. #460	ELE NA A & Holly Oak, Inc., The Lann Companies, 3900 Jemantown Rd., 22030	u/g Pipe	
3701	Chain Bridge Rd	Stratford Property		U/G Gravel Pit	
4117	Chain Bridge Rd	FB&T Bldg., #505	Property Tax Dept., FB&T, PO Box 1290 Winston Salem, NC 21021-1290	u/g CMP	
3601-15	Chain Bridge Rd	Fairfax Crossroads #477	Berenbaum Management, 101 S. Whiting St., #209, Alexandria 22304	u/g CMP	
4260-66	Chain Bridge Rd	Commonwealth Park #459	GMU Educational Fund, Inc., Th, 4400 Univ. Dr., Fairfax, VA 22030	Dry Pond	
4280-2	Chain Bridge Rd	One God Ministry		U/G Gravel Pit	
	Chain Bridge Rd/ School Street	Crestmont I & II, #624	Crestmont HOA, Ed Tapay, Pres., 4131 Trowbridge St., Fairfax, VA 22030	u/g Pipe	
	Cresence Way/Crestar Ct.	Ridgecrest, #590	Ridgecrest HOA, c/o Slawomir Ligier, 4002 Crestar Ct., 22032	u/g RCP	
10301	Democracy Ln	Providence Hill Professional Bldg. #417	VA Acquisition NO 1 LLC, c/o National Enterprise, Inc., 5440 Moorehouse Dr., #4000, San Diego, CA 92121	u/g rRCP	
3179	Draper Dr	Draper Drive Storage	Ross & Normal Keith, c/o West Group - Pat Schoolte, 1600 Anderson Rd., McLean 22102	u/g Concrete Pipe	
1300	Eaton Place	Willow Wood Plaza, #455	The Equitable Variable, c/o Marvin Poes & Co., 1555 Wilson Blvd., #602, Rosslyn, 22209	u/g CMP	
10400	Eaton Place	Carolyn Building	Eaton Place LP, c/o Amell Corp., 5530 Wisconsin Ave., #1000, Chevy Chase, MD 20815	u/g Pipe	
3703-23	Jenny Lynn Ln	Limewood Mews #513	Limewood Mews HOA, 3709 Jenny Lynne Lane, Fairfax, VA 22030	Dry Pond	
3616	Jermantown Rd	Providence E.S.	School Board of the City of Fairfax, 10455 Armstrong St., Fairfax, VA 22030	U/G	

List of Stormwater Management Facilities in the MS4 Permitted Area of City of Fairfax

Street No.	Location in Fairfax	Property Name	Management Address	Type of Detention	Comments
3801	Jermantown Rd	Lanier Middle School	Fairfax County Schools	U/G CMP	
3900	Jermantown Rd	3900 Jermantown Rd. #486	ARG LLC, c/ The Lann Companies, 3900 Jermantown Rd., 22030	u/g CMP	
	John Trammel Court	Trammel Commons, #574	Trammel Commons, 4900 Seminary Rd., #900, Alexandria 22311	u/g RCP	
10617-27	Jones St	Jones Street Joint Venture, #484	Red Maple Court Condo Assn., 10617 Judicial Dr., Suite 201-A, Fairfax, VA 22030	u/g Pipe	
10600	Kitty Poser	Providence Hill Apartments, 3522	Avalon Properties, Inc., 2900 Eisenhower Ave., #300, Alexandria, 22314-5223	u/g CMP	
9610	Lee Hwy	Farrish Oldsmobile #483	Farrish Realty LP 9610 Lee Hwy Fairfax,VA 22030	U/g CMP	
9720	Lee Hwy	Horizon Bank, #653	Ross & Normal Keith, c/o Southern Financial Bank, 37 E Main St., Warrenton 20186	u/g CMP	
9739	Lee Hwy	Patriot Harley Davidson	Mr. Robert C. Dettaven, Enterprise LLC, 9739 Lee Hwy., Fairfax, VA 22030	Sand Filter	
9836	Lee Hwy	Town & Country Animal Hosp.	Town & Country Animal Hosp. LLC, 9836 Lee Highway, Fairfax, VA 22030	Bioretention	
9985	Lee Hwy	VDOT Improvement	Rebel Run LLC, c/o Wm. Pitts III, 115 East 61st St., NY, NY 10021	Dry Pond	
9990	Lee Hwy	Sherwood Plaza, #438	Holualoa/Carr Capital - Sherwood LLC, 665 15th St., NW, #410, PO Box 644, Washington, DC 20005	u/g CMP	
10089	Lee Hwy	Realty Programming Corp	ACS Building LLC, attn: Donohoe Real Estate, 1005 N. Glebe Rd., #100, Arlington 22021	u/g Pipe	
10201	Lee Hwy	Gatewood, #458	Gatewood Plaza & Gill & Stopak & Suburban Hill, 5530 Wisconsin Ave., #1000, Bethesda, MD 20815		
10245	Lee Hwy	B&B Buick, #470	Woodfolk Properties, Inc., 10287 Lee Hwy., Fairfax, VA 22030	u/g CMP	
10287	Lee Hwy	Browns Lincoln Mercury, Inc., #432	Browns Auto Group, same	u/g CMP	
10355	Lee Hwy	BIF Furniture		U/G PVC Pipe	
10441	Lee Hwy	Fairfax Toyota #495	NT & LS Higginbotham, 2900 Brents Landing Dr., Bumpass, VA 23024	u/g CMP	
10480	Lee Hwy	Exxon	The Exxon Corp., PO Box 53, Houston, TX 77001	Oil/Grit Separator	
10485	Lee Hwy	Exxon	The Exxon Corp., PO Box 53, Houston, TX 77001	Stormceptor	
10565	Lee Hwy	Miller Smith Bldg. #3489	Robert P. Miller, 10509 Summit Ave., Kensington, MD 20895	u/g CMP	

List of Stormwater Management Facilities in the MS4 Permitted Area of City of Fairfax

Street No.	Location in Fairfax	Property Name	Management Address	Type of Detention	Comments
10800	Lee Hwy	Texaco Station, VA010	Crown Station, Inc., PO Box 1168, Baltimore, MD 21203	Oil/Grit Separator	
10831	Main St	Southern Life Insurance Co.	10831 Main Street LLC, 10831 Main St., Fairfax, VA 22030	u/g Pipe	
10900	Lee Hwy	CVS/KFC/Outback	Mr. Rob. E. Stafford & Associates LP, 4904 Rutherford Rd., #103, VA Beach, VA 23455-4061	u/g Concrete Vault	
11001	Lee Hwy	11001 Lee Hwy.	Fairfax Junction LP, c/o First Allied Corp., 270 Commerce Dr., Rochester, NY 14623	Stormceptor	
11090	Lee Hwy	Texaco, #584	Cloverdale LP, 216 S. Payne St., Alexandria, 22314	u/g CMP	
10710-82	Lee Hwy	Shops at Fairfax, The	Saul Holdings LTD PTN, c/o Property Tax ADM, 7501 Wisc. Ave., #1500, Bethesda, MD 20814	Stormceptor & U/G Pipe	
11051-55	Lee Hwy	Luskins, Fairfax #519	Lee Highway Associates, Inc., 4 Reservoir Cir., #100, Pikesville, MD 21208	u/g CMP	
11092-96	Lee Hwy	Fair Oaks Square, #448	Fair Oaks Sq. Condominium Association, c/o Sharon Scarce, PO Box 644, Centreville, 20121	u/g Pipe	
9661	Main St	Woodson Square, #476	Berenbaum Management Co., Inc. 101 South Whiting St., Suite 200 Alexandria VA 22304	Dry Pond	
9701	Main St	Apple Credit Union		Stormceptor	
9706	Main St	Comstock	Comstock HOA 3955 Bradwater St. Fairfax VA 22031	U/g CMP	
9749	Main St	Kinder Care, #471	Kinder Care Learning Center Inc., PO Box 6760 Portland, OR 97228	U/g CMP	
9959	Main St	Carlos O'Kelly #456	Main 9959 LLC, c/o Stout & Teague, PO Box 22845, Oklahoma City, OK 73123	u/g CMP	
10015	Main St	Screen Printing Assoc. International, #501	Screen Printing Assoc. International, 10015 Main St., Fairfax, VA 22031	u/g CMP	
10100	Main St	Chevy Chase Bank		Filter	
10195	Main St	Fairfax Town Office Park #407	Commercial Condominium Management Co., 8496-B Tyco Rd Attn. John Motz, Tysons Corner, VA 22181	U/g CMP	
10680	Main St	Mainland Office Bldg #521	Mainland Office Building LLC, c/o Trammel Crow Co., 14595 Avion Pkwy., Suite #1100 Chantilly, VA 20151	U/g CMP	
10730	Main St	Fairfax Surgical Center #595	Fairfax Surgical Center LP, 10730 Main St., Fairfax, VA 22030	u/g CMP	
10875	Main St	Professional Center of Fairfax	Professional Center of Fairfax 10875 Main St. Fairfax VA 22030	U/g Pipe	
11091	Main St	American Medical Labs #413	MGB Properties LLC 11165 Main St Fairfax, VA 22030	Dry Pond	
11165	Main St	Ted Britt Ford, #469	Gardner M. Britt, 1165 Main St., Fairfax, VA 22030	u/g Pipe	
11166	Main St	Guardian Main St. LLC	Guardian Main St. LLC 702 Russell Ave. Suite 400 Gaithersburg, MD 20877	Percolation Trench	
10252-330	Main St	Main St Marketplace	Kimco Realty, 14076 Shoppers Best Way, Woodbridge, VA 22192	Sand Filter	
10601-24	Main St	Railroad Sq. Condo. Assoc.	Railroad Sq. Condo Assoc. C/O Nicole Properties, Inc. PO. Box 644 Centreville VA 22031 Attn: Sharon Scarce	U/g RCP	
10777-808	Main St	Kelly Square #388	Mercury Marketing Resources Inc. 10801 Main St. Fairfax, VA 22030	Dry Pond	

List of Stormwater Management Facilities in the MS4 Permitted Area of City of Fairfax

Street No.	Location in Fairfax	Property Name	Management Address	Type of Detention	Comments
9719-33	Main St	Williamsburg Square	Williamsburg Sq. Condo. Assoc. 4028 Williamsburg Ct. Fairfax VA 22032	Dry Pond	
	Main St	Railroad Square Condo Association, #398	Railroad Sq. Condo Assn., c/o Nicole Properties, Inc., PO Box 644, Centreville, 22020 Attn: Sharon Scarce	u/g RCP	
4331-6	Mason Oaks Ct.	Mason Oaks		Dry Pond	
3315	Old Lee Hwy	Army Navy: Red 6/White 7		Dry Pond	
3500	Old Lee Hwy	Fairfax High School Expansion	Fairfax County Schools	Detention Filter	
3730	Old Lee Hwy	Police Station	City of Fairfax	Dry Pond	
3318	Old Lee Hwy/Rt. 236	Army/Navy Country Club #632	Army Navy Country Club, 1700 Army Navy Dr., Arlington 22202-1640	Dry Pond	
3705	Old Lee Hwy/Rt. 236	Daniels Run E. S.	School Board of the City of Fairfax, 10455 Armstrong St., Fairfax, VA 22030	u/g CMP	
3915-27	Old Lee Hwy/Rt. 236	Fairfax Commons #540	3900 Old Lee Hwy. Associates LP. c/o Berenbaum Management, 101 South Whiting St., #209, Alexandria 22304	u/g CMP	
	Old Lee Hwy/Rt. 236	Farrcroft	Diane Cox Basheer Co., LC, 3925 Old Lee Hwy., Ste 100, Fairfax, VA 22030	Wet Pond	
10602	Orchard St	10602 Orchard St.		U/G Gravel Pit	
	Page Avenue	City Square Office #385	10640 Page Ave., LLC, Shenandoah Life (Amy Williams) PO Box 12847, Roanoke 24029	u/g CMP	
3500	Pickett Rd.	Church of the Apostles #563	Malcolm L. Jones et al., Church of the Apostles, PO Box 2306, Fairfax, VA 22030	u/g CMP	
	Pickett Rd.	Barristers Keepe #675	Barristers Keepe HOA, Brian Knapp, Pres., 3465 Barristers Keepe Cir., Fairfax, VA 22031	u/g CMP	
3905	Railroad Ave.	Railroad Avenue Office Bldg. #399	Railroad Avenue Office Bldg. 3905 Railroad Avenue Fairfax VA 22030	U/g RCP	
	Ridge Ave.	Fairfax Oaks, #493	Fair Oaks HOA, Waller Wagner, Pres., 9620 Ridge Ave., Fairfax, VA 22030	u/g CMP	
	Rt. 123/Lord Culpeper Lane	Chancery Square #622	Chancery Sq. HOA, Joe Jackson, Pres., 10508 James Wren Way, 22030	u/g CMP	
	Rt. 29, Kamp. Wash.	Sunset Center, #527	11123 Lee Hwy. Associates, PO Box 368, Vienna, 22183	u/g CMP	
10328	Sager Ave	Providence Square Condominium	Providence Sq. Condo. c/o Brian Johnson, 3959 Pender Dr., Fairfax, VA 22030	Sand Filter, U/G Pipe	
	Sager Ave	Crossings, The	The Crossings of Fairfax HOA, Alicia Prieto, Pres., 4104 Oxford Lane, #304, Fairfax, VA 22030	Sand Filter	
	Sharon Court	Holly Park Subdivision #538	Holly Park HOA, Jay S. Minski, Pres., 9804 Sharon Ct. 22032	u/g Pipe	
	Sharpes Meadow Lane, Fairfax, VA 22030	Windy Hill	Windy Hill HOA, Jeff Greenfield, Pres., 3584 Sharpes Meadow Lane, Fairfax, VA 22030	Dry Pond	
9431	Silver King Ct	New School of Northern Virginia	New School of Northern Virginia, John Potter, 9431 Silver King Court, Fairfax VA 22030	U/G Gravel Pit	
4022	Stonewall Ave.	Stonewall Estates		U/G Detention	
3501	University Dr	Old Town Village		Filter	
4020	University Dr	First Federal Plaza	First Federal S&L, Suntrust Bank Hdq. 8614, 919 E. Main St., Richmond 23219	u/g Pipe	
10520-30	Warwick Ave	Warwick Park	Warwick Park Condo Assn., 3600 Chain Br. Rd., Fairfax, VA 22030	u/g Pipe	
10200-3	Wren Ct	Wrens Courtyard, #573	Wrens Courtyard HOA Tom Abby, Pres., 10203 Wren Courtyard Fairfax, VA 22031	Dry Pond	
		Courthouse Plaza	David Miller et al., c/o Otis Costin, Jr., 1360 Beverly Rd., #100, McLean 22101	Dry Pond	
		11166 Main St.	Guardian Main Street LLC, 702 Russell Ave., #400, Gaithersburg, MD 20877	Percolation Trench	
		Judicial Court, #530	Judicial Court Condo Assoc., 10615 Judicial Dr., Unit 101, Fairfax, VA 22030	u/g CMP	
		(OfficeDepot)/Wash. Sports Club			

ORDINANCE NO. 2006-17

AN ORDINANCE AMENDING CHAPTER 110, ARTICLE I, SECTION 110-4 AND CHAPTER 110, ARTICLE II, DIVISION 3 (CHESAPEAKE BAY PRESERVATION), SECTIONS 110-79(a)(1), 110-79(a)(2), 110-79(a)(3), 110-80(b), 110-80(e), 110-84(c)(2), 110-84(d)(1), 110-85(a)(2) AND 110-85(b)(2) OF THE CODE OF THE CITY OF FAIRFAX TO PROVIDE FOR A DEFINITION OF "PUBLIC ROAD" AND "SUBSTANTIAL ALTERATION," TO CLARIFY THAT AREAS DESIGNATED AS RESOURCE PROTECTION AREAS SHALL NOT BE MODIFIED UNLESS BASED UPON RELIABLE SITE SPECIFIC INFORMATION, TO CLARIFY THAT THE CITY SHALL REVIEW AND APPROVE ANY DEVELOPMENT WITHIN IN AN RPA, TO ALLOW THE ZONING ADMINISTRATOR TO WAIVE A WATER QUALITY IMPACT ASSESSMENT WITHIN A RESOURCE MANAGEMENT AREA ONLY, TO CLARIFY THAT ANY VEGETATION REMOVAL WITHIN A BUFFER AREA REQUIRES APPROVAL OF THE ZONING ADMINISTRATOR AND TO GENERALLY COMPLY WITH THE REQUIREMENTS OF THE CODE OF VIRGINIA SECTION 10.1-2109, THE CHESAPEAKE BAY ACT, AND VIRGINIA ADMINISTRATIVE CODE SECTION 9VAC10-20-60.

NOW, BE IT ORDAINED by the City Council of the City of Fairfax, Virginia, that Chapter 110, Article I, Section 110-4 and Chapter 110, Article II, Division 3, Sections 110-79(a)(1), 110-79(a)(2), 110-79(a)(3), 110-80(b), 110-80(e), 110-84(c)(2), 110-84(d)(1), 110-85(a)(2) and 110-85(b)(2) of the Code of the City of Fairfax, are hereby amended as follows:

ARTICLE I. IN GENERAL

Sec. 110-4. Definitions.

Public road means, as used solely in Article II, Division 3, a publicly owned road that is designated and constructed in accordance with water quality protection criteria at least as stringent as requirements applicable to the Virginia Department of Transportation, including regulations promulgated pursuant to (i) the Erosion and Sediment Control Law (Section 10.1-560 et seq. of the Code of Virginia) and (ii) the Virginia Stormwater Management Act (Section 10.1-603.1 et seq. of the Code of Virginia). This definition includes those roads where the Virginia Department of Transportation exercises direct supervision over the design or construction activities, or both, and cases where urban roads are constructed or maintained, or both, by the City of Fairfax in accordance with the City's standards for road design and construction activities.

Substantial Alteration means, as used solely in Article II, Division 3, expansion or modification of a building or development that would result in a disturbance of any land within a resource protection area, or disturbance of any land exceeding an area of two thousand five hundred (2,500) square feet within a resource management area.

**ARTICLE II. DISTRICT DEVELOPMENT STANDARDS AND REGULATIONS
GENERALLY**

DIVISION 3. CHESAPEAKE BAY PRESERVATION*

Sec. 110-79. Areas of applicability.

- (1) The resource protection area includes:
 - a. Tidal wetlands;
 - b. Nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow;
 - c. Tidal shores;
 - d. Intermittent streams that remain largely in a natural condition and that have not been significantly impacted by adjacent development;
 - e. Water bodies with perennial flow; and
 - f. A 100-foot vegetated buffer area located adjacent to and landward of the components listed in subparagraphs a. through e. above, and expanded to include noncontiguous wetlands within the floodplain that are partially located within the buffer, along both sides of any water body with perennial flow. The full buffer area shall be designated as the landward component of the resource protection area notwithstanding the presence of permitted uses, encroachments or permitted vegetation clearing in compliance with the performance criteria of this division.
- (2) Designation of the components listed in section 110-79(a)(1)(a-f) of this division on the city's Chesapeake Bay preservation area map shall not be subject to modification unless based upon reliable site-specific information, in accordance with section 110-83 of this division and, if applicable, a water quality impact assessment required pursuant to section 110-85.
- (3) The resource management area includes all lands in the city that are not designated as resource protection areas.

Sec. 110-80. Use regulations.

- (a) Development, land disturbances and uses authorized by underlying zoning classifications are allowed provided that they are carried out in accordance with the applicable general performance standards set forth in section 110-84 of this division or otherwise modified by the requirements set forth herein.
- (b) Development in resource protection areas (RPAs) shall be subject to review and approval by the city and may be permitted if it:
 - (1) Constitutes redevelopment; or
 - (2) Is a roadway or driveway not exempt under section 110-88, provided that:
 - a. There are no reasonable alternatives to aligning the road or driveway in or across the RPA;

b. The alignment and design of the road or driveway are optimized, consistent with other applicable requirements, to minimize encroachment in the RPA and adverse effects on water quality; and

c. The design and construction of the road or driveway satisfy all applicable criteria of this ordinance, including the submission of a water quality impact assessment.

(3) Is a flood-control or stormwater-management facility that drains or treats water from multiple development projects or from a significant portion of a watershed, provided that:

a. The location of the facility within the RPA is the optimum location;

b. The size of the facility is the minimum necessary to provide necessary flood control, stormwater treatment, or both;

c. The facility is consistent with a stormwater management program that has been approved by the Chesapeake Bay local assistance board as a phase 1 modification to this program;

d. All applicable permits for construction in state and federal waters are obtained from the appropriate state and federal agencies, such as the U.S. Army Corps of Engineers, the Virginia Department of Environmental Quality, and the Virginia Marine Resources Commission; and

e. Approval from the city prior to construction.

(4) Is a new use established pursuant to subsection 110-84(d)(2).

(e) A water quality impact assessment shall be required for any proposed land disturbance, development or redevelopment within a resource protection area or a resource management area. The zoning administrator may waive the requirement for a water quality impact assessment in a resource management area upon determination that the proposed land disturbance, development or redevelopment would not significantly impact water quality. If a water quality impact assessment is required, the assessment shall include the entire lot, parcel or development project as the area of impact and shall be conducted in accordance with section 110-85 of this division.

Sec. 110-84. General performance standards for Chesapeake Bay preservation areas.

(c) Performance criteria for resource protection areas. The following criteria shall apply specifically within resource protection areas and supplement the general performance criteria contained in section 110-84:

(1) All redevelopment activities shall conform to the regulations contained in article II, division 2, Floodplains; Division 11, Storm Drainage Facilities; and division 12, Erosion and Sediment Control; of this chapter as well as the criteria for redevelopment in subsection 110-84(b)(7). Redevelopment shall be permitted in the resource protection area only if there is no increase in the amount of impervious cover within the RPA and no further encroachment within the RPA.

(2) A water quality impact assessment shall be required for any proposed land disturbance, development or redevelopment within resource protection areas in accordance with section 110-85 and section 110-80(e).

(d) Buffer area requirements. To minimize the adverse effects of human activities on the core components of resource protection areas, state waters, and aquatic life, a 100-foot buffer area of vegetation that is effective in retarding runoff, preventing erosion, and filtering nonpoint source pollution from runoff shall be retained if present and established where it does not exist. The 100-foot buffer area shall be deemed to achieve a 75 percent reduction of sediments and a 40 percent reduction of nutrients.

The buffer area shall be maintained to meet the following additional performance standards:

(1) In order to maintain the functional value of the buffer area, indigenous vegetation may be removed, subject to approval of the zoning administrator, only to provide for reasonable sight lines, access paths, general woodlot management, and best management practices (including those that prevent upland erosion and concentrated flows of stormwater), as follows:

Sec. 110-85. Water quality impact assessment.

(a) Purpose and intent. The purpose of the water quality impact assessment is to:

- (1) Identify the impacts of proposed development on water quality and lands within resource protection areas;
- (2) Ensure that, where land disturbance, development or redevelopment does take place within resource protection areas, it is located on those portions of a site and in a manner that is least disruptive to the natural functions of resource protection areas; and
- (3) Specify mitigation to address water quality protection.

(b) Water quality impact assessment required. A water quality impact assessment shall be submitted for:

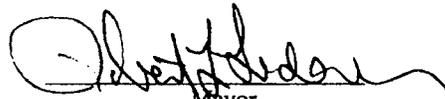
- (1) Any proposed land disturbance, development or redevelopment within a resource protection area including any buffer area modification or reduction as provided for in section 110-84; or
- (2) Any proposed development or redevelopment in the resource management area that may significantly impact water quality due to the unique characteristics of the site or intensity of the proposed use or development, as determined by the zoning administrator in accordance with this section and subsection 110-80(e).

This ordinance shall become effective as provided by law.

Planning Commission Public Hearing: November 13, 2006

City Council Public Hearing: December 12, 2006

ADOPTED: December 12, 2006


Mayor

Date: 12/19/06

Attest:


City Clerk

The vote on the motion to approve was recorded as follows:

VOTE:

Councilwoman Cross	Aye
Councilman Greenfield	Absent
Councilwoman Lyon	Aye
Councilman Rasmussen	Aye
Councilman Silverthorne	Aye
Councilmember Winter	Aye

1 the preparation, submission and approval of the required erosion and sediment
2 control plan shall be the responsibility of the owner of the land.

3 (c) Activities extending into another jurisdiction. The land disturbing activities
4 involving lands which extend into the jurisdiction of another local erosion and
5 sediment control program shall be approved by the state soil and water
6 conservation board or each jurisdiction where the land is located, and shall
7 comply with the requirements of section 110-342 concerning an installation and
8 maintenance agreement and bond.

9 (d) Agreements for single-family residences. Where the land disturbing activity
10 results from the construction of a single-family residence, an agreement in lieu of
11 a plan may be substituted for an erosion and sediment control plan if such an
12 agreement is approved by the plan-approving authority. Pursuant to such an
13 agreement, the plan-approving authority may require the applicant to provide the
14 name of an individual (the responsible land disturber) holding a responsible land
15 disturber certificate pursuant to state law, unless a violation occurs during the land
16 disturbing activity. If a violation does occur, then the applicant shall correct the
17 violation and provide the name of an individual (the responsible land disturber)
18 holding a responsible land disturber certificate pursuant to state law.

19 (e) Plans for erosion impact areas. In order to prevent further erosion on an area
20 of land identified as an erosion impact area, the plan-approving authority may
21 require approval of a soil erosion and sediment control plan.
22

23 **Sec. 110-341. Standards for approval of plan.**

24 (a) Within 45 days of receipt of a soil erosion and sediment control plan, the
25 plan-approving authority shall either approve or disapprove the plan in writing
26 according to the standards set forth in this section. In addition, the provisions of
27 section 110-342 must be met to gain plan approval. If a plan is not approved, the
28 plan-approving authority shall specify the modifications, terms, and conditions
29 that will permit approval of the plan and communicate these requirements to the
30 applicant in writing. If no action is taken by the plan-approving authority within

1 the time specified in this subsection, the plan shall be deemed approved and the
2 permit issued.

3 (b) Plans submitted for approval under this chapter shall be prepared in
4 accordance with the state erosion and sediment control regulations VR625-02-00,
5 and any amendments and revisions thereto, and the guidelines contained in the
6 current edition of the Virginia Erosion and Sediment Control Handbook, and any
7 amendments and revisions thereto, both of which are hereby adopted as part of
8 this chapter. In accordance with state law and the state erosion and sediment
9 control regulations and as a prerequisite to approval of the plan, the applicant
10 shall provide the name of an individual (the responsible land disturber) holding a
11 responsible land disturber certificate who will be in charge of and responsible for
12 carrying out the land-disturbing activity and the applicant shall certify that he will
13 properly perform the conservation measures included in the plan and will conform
14 to the state erosion and sediment control regulations.

15
16 **Sec. 110-345. Monitoring, reports and inspections.**

17 The plan-approving authority shall periodically in accordance with Section 4VAC50-30-
18 60.B of the Virginia Erosion and Sediment Control Regulations inspect land disturbing
19 activities for compliance with the approved plan and permit. The owner, permittee, or
20 person responsible for carrying out the plan shall be given notice of inspections.

21 (1) Monitoring and reports may be required by the plan-approving authority of
22 the owner, permittee, or person responsible for carrying out the plan to ensure
23 compliance with the plan and that the measures required in the plan are effective
24 in controlling erosion and sediment.

25 (2) Upon determination of a failure to comply with the plan, the plan-approving
26 authority shall serve notice by certified or registered mail to the address specified
27 in the permit application or by hand delivery to the owner, permittee, or person
28 responsible for carrying out the plan, specifying the measures needed for plan
29 compliance and the time within which the measures must be completed. Failure
30 to comply within the specified time may result in revocation of the permit at

1 which time the notified individual shall be deemed to be in violation of this
2 division.

3 (3) Regardless of the requirement for notice in subsection (2) of this section, if
4 land disturbing activities begin without an approved plan, the plan-approving
5 authority may issue an order requiring all land disturbing activities be stopped
6 until an approved plan and required permits are obtained. If the alleged violator
7 has not obtained an approved plan and required permits within seven days from
8 the service date of the order, the plan-approving authority shall issue an order to
9 the owner requiring that all construction and other work on the site, other than
10 corrective measures, be stopped until an approved plan and required permits are
11 obtained. The order shall be served upon the owner by registered or certified mail
12 to the address specified in the permit application or the city land records. The
13 order shall be lifted immediately upon completion of corrective action and
14 obtaining plan approval and required permits. The owner may appeal the issuance
15 of an order to the circuit court of the county. In addition, if the alleged activity is
16 in imminent danger of causing harmful erosion of lands or sediment deposition in
17 waters within the watersheds of the Commonwealth, the plan-approving authority
18 may issue an order requiring that all land disturbing activities be stopped
19 regardless of the notice requirement of subsection (2) of this section.

20 (4) Unless the violation is causing or is in imminent danger of causing harmful
21 land erosion or sediment deposition in waters within the watersheds of the
22 commonwealth, or land disturbing activities occurred without an approved plan
23 and required permit, an order to stop work shall only be issued after the alleged
24 violator failed to comply with a notice to comply sent according to subsection (2)
25 of this section. The order may require that all or part of the land disturbing
26 activities be stopped until the specified corrective measures have been taken. The
27 order shall be served by certified mail or hand delivery and shall remain in effect
28 for seven days from the date of service pending application by the city or alleged
29 violator to the circuit court of the county for appropriate relief. The order shall be
30 lifted immediately upon completion of corrective measures. Nothing in this

1 section shall prevent the plan-approving authority from taking any other action
2 specified in this division.

3
4 **Sec. 110-346. Penalties, injunctions and other legal actions.**

5 (a) Violations of any requirement of this division or any condition of a permit
6 shall be subject to a civil penalty. The civil penalty for any one violation shall be
7 \$100.00, except that the civil penalty for commencement of land disturbing
8 activities without an approved plan shall be \$1,000.00. ✕

9 (b) In no event shall a series of violations arising from the same set of operative
10 facts result in civil penalties which exceed a total of \$3,000.00, except that a
11 series of violations ensuing from the commencement of land disturbing activities
12 without an approved plan for any site shall not result in civil penalties which
13 exceed \$10,000.00.

14 (c) The plan-approving authority may apply to the circuit court of the county to
15 enjoin a violation or a threatened violation.

16 (d) Any person violating, failing, neglecting or refusing to obey any injunction,
17 mandamus or other remedy obtained pursuant to Code of Virginia, § 10.1-569
18 shall be subject, in the discretion of the court, to a civil penalty not to exceed
19 \$2,000.00 for each violation. Any civil penalty so assessed shall be payable to the
20 treasury of the city.

21 (e) In accordance with section 110-345, the plan-approving authority may revoke
22 a permit for failing to comply to with an approved plan.

23
24 This ordinance shall become effective as provided by law.

25
26 Planning Commission Public Hearing: _____

27
28 City Council Public Hearing: _____

29
30 ADOPTED: _____

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Mayor

Attest:

Date: _____

City Clerk

Vote:

J. Cross: _____
J. Greenfield: _____
G. Lyon: _____
G. Rasmussen: _____
S. Silverthorne: _____
P. Winter: _____

14233042.2



List of Services

Home Residents Business Visitors City Gov't Jobs Calendar Search

Environment

- Environment - Home Page
- Flood Plains
- Streams
- Storm Water Management
- Watershed Management Planning

Home Energy Use

- Energy Saving Tips for Homeowners

Protecting Our Water Resources

- Protecting Our Water Resources
- What Citizens Can Do
- Virginia Pollution Discharge Elimination System Permit

Students making a difference

- Students & Community
- What Kids Can Do
- Website Links for Students

Storm Water Management

Guide for Stormwater Management and Best Management Practice Facilities

Key Issues

- All owners of private stormwater facilities shall provide maintenance to ensure the facilities are performing their design functions.
- Owners shall submit inspection reports and perform maintenance in accordance with the maintenance schedule as outlined in the owner's SWM/BMP Maintenance and Monitoring Bond agreement.
- The City of Fairfax has the right to inspect private facilities to determine whether the facility is in safe and proper working order. The city will provide the Owner copies of the inspection report when deficiencies are noted.

Relevant Links

- Public Works
- Council of Governments

Mosquito Issues Relating to SWM Facilities

- Storm sewers provide breeding grounds for the principle mosquito species that spreads the West Nile virus.
- Preventing pooling of stagnate water and treating storm sewers with larvacide will assist in the reduction mosquito breeding.
- It is the owner's responsibility to inspect and treat its own facilities. However, if mosquito larvae are found during a city facility inspection, the City of Fairfax will treat the facility with larvacide.
- For more information on mosquito issues, contact the Fairfax County Health Department at 703.246.2300.

Current Inventory of Stormwater Management Facilities

Pond Systems

- Dry Ponds - 21
- Wet Ponds - 1

Filter Systems

- Cartridge - 10
- Sand - 3
- Filterra - 9

Underground Detention Systems

- Concrete Box Culverts - 8
- Corrugated Metal Pipe System - 45

Retention Systems

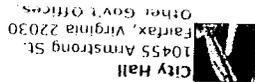
- Bioretention - 7
- Gravel Retention Cells - 8
- Infiltration Trenches - 7
- Rain Tank - 1

Oil/Grit Separators

- Grease Traps (approx.) - 112
- Stormceptors - 5

City of Fairfax Contacts

For questions or to report a problem with a stormwater management facility, please contact the Department of Public Works at 703.385.7980.



Information Provided by Special Projects Engineering, 703.385.7816
City Code | Contact Us | Privacy Policy | Search | Site Explanation

Appendix C-6

**Exhibits for Minimum Control Measure #6 --
Pollution Prevention/Good Housekeeping for Municipal Operations**

Locality Recycling Rate Report
PART B: DATA

For Calendar Year 2008

Part I: Principal Recyclable Materials (PRMs): Report only PRM material generated within the reporting SWPU and recycled, NOT imported PRMs for recycling.

<u>PRM TYPE</u>	<u>RECYCLED AMOUNT (TONS)</u>
Paper	7,234
Metal	2,893
Plastic	324
Glass	267
Commingled	156
Yard Waste (composted or mulched)	7,185
Waste wood (chipped or mulched)	842
Textiles	
Tires	297
Used Oil	268
Used Oil Filters	47
Used Antifreeze	29
Batteries	42
Electronics	4
Inoperative Motor Vehicles (see guidance)	
Other (specify: _____)	
Other (specify: _____)	
TOTAL PRMs	19,588 (PRMs)
	(Enter Total on Page 2, Step 1)



List of Services



Home Residents Business Visitors City Gov't Jobs Calendar Search

Refuse & Recycling

- Rules and Regulations
- Commercial Recycling
- Route Finder
- Route Map
- Holiday Schedule
- How to Dispose
- Where Does My Trash Go?

Leaf Collection

- Leaf Collection
- Leaf Collection Map

Leaf Collection

Leaves are collected loose at the curb from November through the end of December and during the last 2 weeks of April.

Here are some suggestions:

Just rake leaves to the curb for collection.

Please keep rocks and large sticks out of leaf piles as they may damage equipment and delay service.

The city assigns a crew to each of the six sections of the city. The crew continues to work through their assigned section throughout the leaf season, attempting to provide service approximately once every 2 weeks. However, during periods of heavy leaf fall, there will be delays.

For leaf collection at times other than November through December and the last 2 weeks of April, leaves must be placed in trash cans or yard waste bags and be placed at the curb on your regular trash day.

Leaf Collection Map for the City of Fairfax.

For more information contact: Terry Lawver 703.385.7995 or Wayne Thomas 703.385.7837

Relevant Links

- Fairfax County
- www.knowtoxic.com
- Contact Us

Relevant Agencies

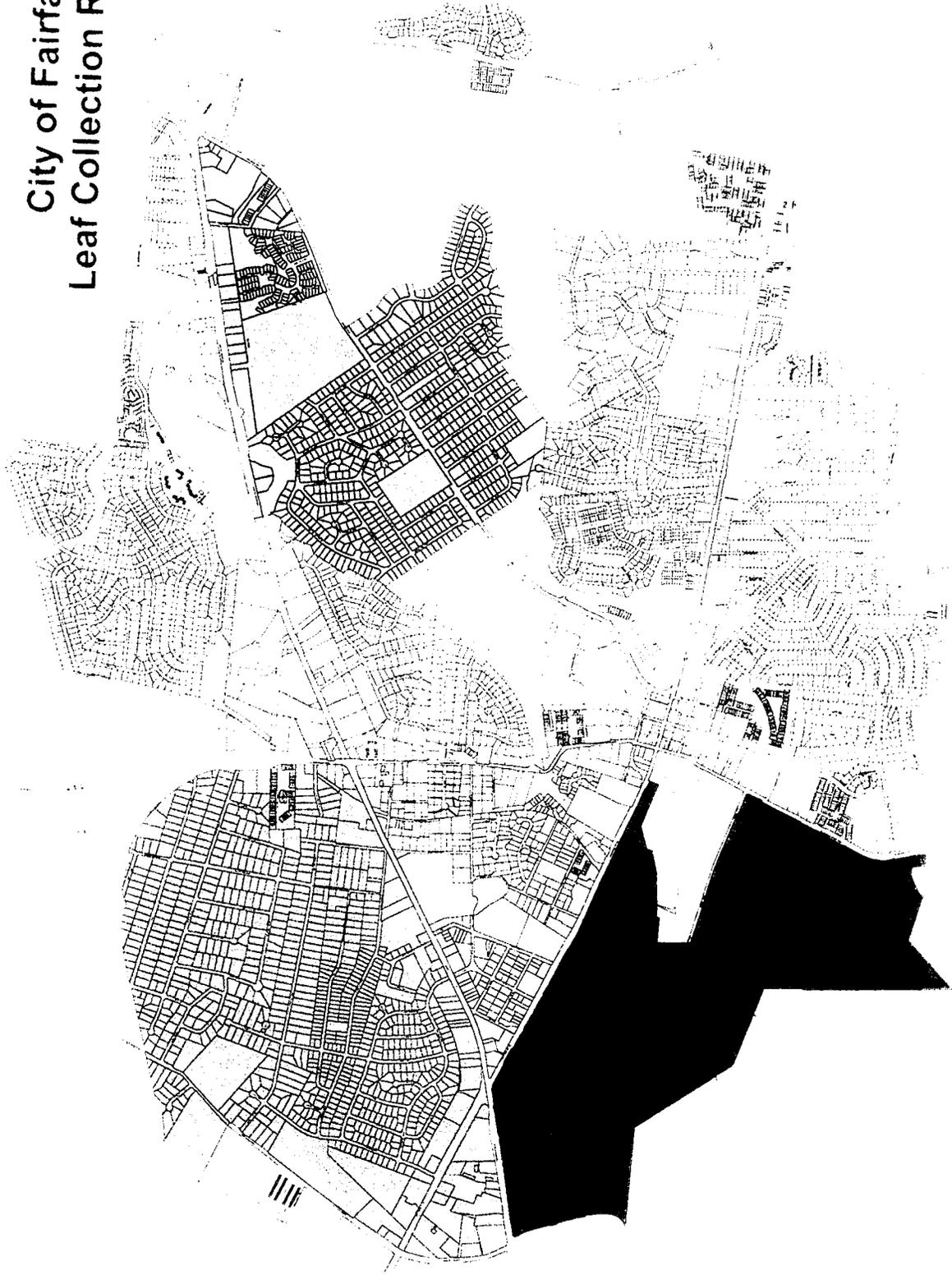
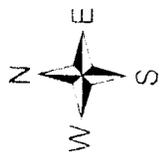
- Public Works

City Hall 10455 Armstrong St. Fairfax, Virginia 22030 Other Gov't Offices.

Information Provided by the Refuse & Recycling Division; 703.385.7995. City Code | Contact Us | Privacy Policy | Search | Site Explanation

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City of Fairfax Leaf Collection Routes



Leaf Collection Routes
ROUTE



How to Dispose of Items in the City

These items are picked up from the curb on regular collection day (keep them separated at the curb):

- **Household trash** (in cans or plastic bags)
- **Recyclables** (in blue bins)
 - aluminum and metal cans; plastic beverage containers; clear, brown and green glass; catalogs; magazines; newspapers and inserts (bound or bagged in bin); corrugated cardboard and paperboard (bound next to bin) — no pizza boxes*
- **Brush, tree stumps, oversized yard debris**
 - cut branches to less than eight feet in length*
- **Building materials, debris and lumber** (treated and non-treated)
 - concrete, empty water based and latex-based paint cans, asphalt, shingles, drywall — for safety, bend nails and mark "sharps," glass and other possibly harmful materials*
- **Furniture**
 - couches, carpet, tables, televisions, mattresses, boxsprings*
- **Large appliances**
 - air conditioners, water heaters, refrigerators, washers, etc. — remove doors for safety*
- **Metal objects**
 - swing sets (disassembled), doors, chain link fences, auto parts, lawn mowers — drain motor fluids*
- **Tires**
- **Yard waste**
 - in bags, bundled or placed in trash cans marked "Yard Waste" — grass clippings, garden waste, weeds, acorns, hedge trimmings, flowers, twigs, sticks, brush less than 4 feet in length, leaves (except during curbside leaf collection season)*

These items also may be dropped off at the I-66 Transfer Station, 4618 West Ox Road.
Hours: 6 a.m. to 6 p.m. Monday through Saturday and 9 a.m. to 6 p.m. Sunday.
There is a disposal charge at this site. For information, call 703-631-1179.

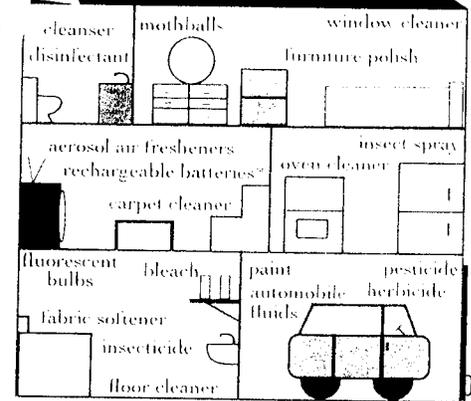
Dirt is collected by appointment only; call 703-385-7995 to arrange for collection.

Leaves are collected curbside only in April and from mid-October through December. At all other times, please place leaves in plastic or paper bags at the curb on regular collection days.

The city will not dispose of refuse generated by contractors.

Check out refuse and recycling information on the city's Web site: www.fairfaxva.gov.

What is "hazardous waste"?



**Non-rechargeable household batteries may be placed in the trash.*

Take household hazardous waste to the Fairfax County Household Hazardous Waste Disposal site, 4618 West Ox Road.
Hours: 1 - 5 p.m. Thursday, 8 a.m. to noon Friday, 8 a.m. to 4 p.m. Saturday and 9 a.m. to 4 p.m. Sunday.
For information or questions on household hazardous waste, visit www.fairfaxcounty.gov or call: 703-324-5068.

Computers, televisions and other electronic equipment may be recycled for free on Electric Sundays at the Fairfax County I-66 Transfer Station, 4618 West Ox Road; 703-631-1179; www.fairfaxcounty.gov.

24-hour drop-off recycling sites

City Hall (10455 Armstrong Street) in blue bin at rear loading dock
office paper and every type of white and colored paper

EXCEPTIONS: no cardboard, brown envelopes, tissues or food wrappers

Fire Station 3 (4081 University Drive) and Fire Station 33 (10101 Fairfax Boulevard)

aluminum cans only — proceeds benefit Aluminum Cans for Burned Children

Property Yard (3410 Pickett Road)

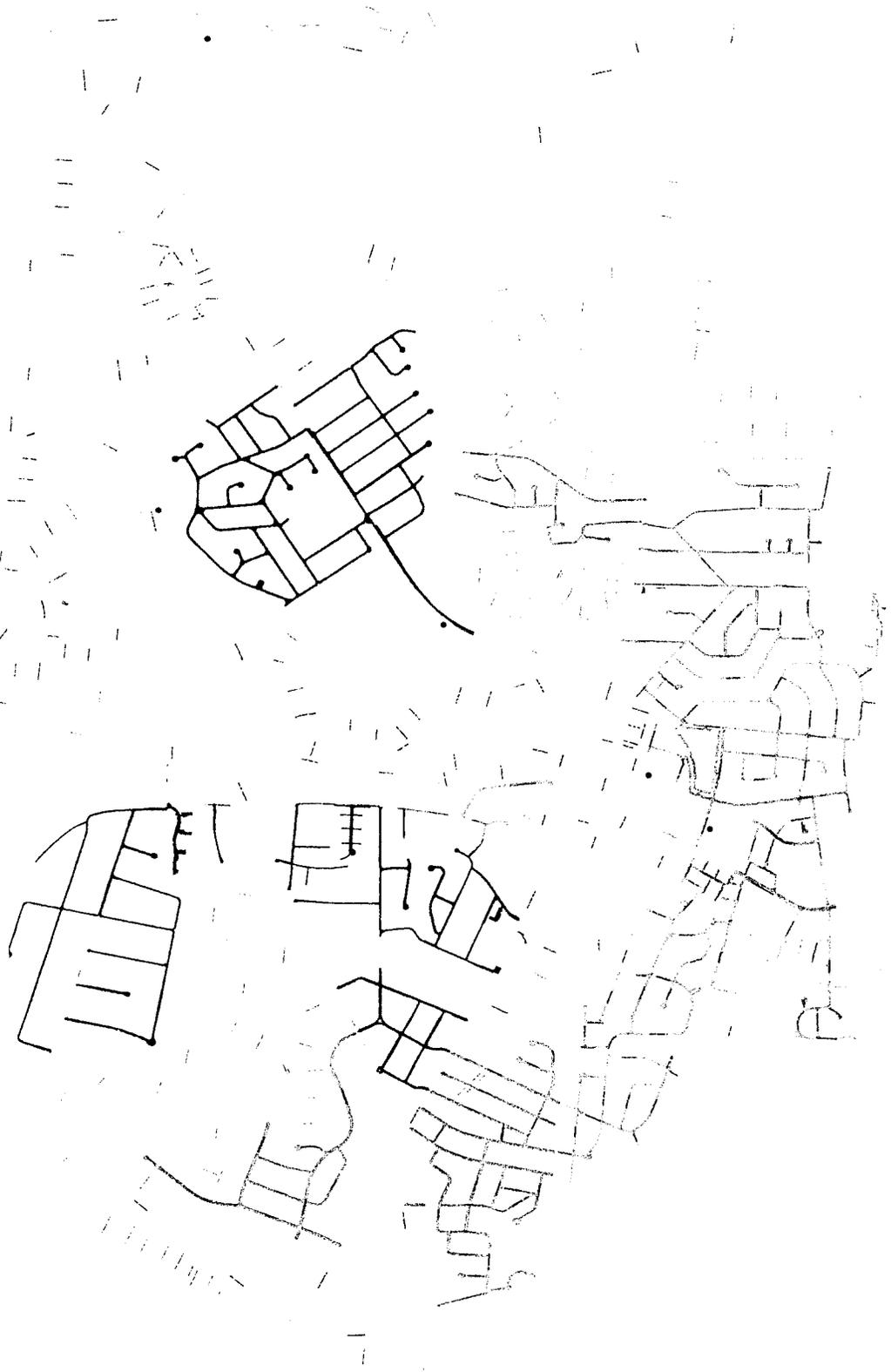
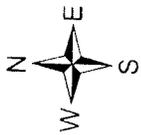
metal cans; newspapers and inserts; plastic beverage containers; clear, brown and green glass; auto batteries; aerosol cans; cardboard; paper mail and envelopes, catalogs and magazines; phone books; aluminum cans; rechargeable batteries (note: non-rechargeable household batteries may be placed in the trash); antifreeze (6:30 a.m. to 3:30 p.m. weekdays only); motor oil and filters (6:30 a.m. to 3:30 p.m. weekdays only).

Live Christmas trees are collected curbside on regular refuse collection days in January. Remove all ornaments, tinsel and garland. No call needed for collection!



Questions? Call 703-385-7995 or e-mail dray@fairfaxva.gov.

City of Fairfax Trash Routes



Trash Routes

- DAY
- MONDAY
- TUESDAY
- WEDNESDAY
- THURSDAY
- FRIDAY
- OTHER
- DAILY PICKUP
- City Parcels



List of Services

Home Residents Business Visitors City Gov't Jobs Calendar Search

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- Route Map
- Holiday Schedule
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- Where Does My Trash Go?

Leaf Collection

- Leaf Collection
- Leaf Collection Map

Refuse & Recycling

For information call 703.385.7995 or email Refuse & Recycling

The city collects refuse and recyclable items from all single family homes in the city once a week at no charge. Nearly all items are picked up on the regular collection day with no call-in required. The city also operates a recycling drop off center on Pickett Road. Highlights of the rules and regulations pertaining to city's refuse and recycling services are provided below.

Rules and Regulations

- Household Refuse Collection
- Recyclable Collection
- Yard Waste
- Metals/Appliances
- Leaves
- Brush and Stumps
- Lumber
- Debris
- Adopt-A-Truck
- Paint
- Household Hazardous Waste
- Contractor's Debris and Yard Waste
- Penalty

Household Refuse Collection

- Refuse collection is provided to all single-family homes on a once-per-week basis.
- Refuse, non-recyclable kitchen waste and household refuse is collected. Pets must be secured.
- Refuse must be placed in plastic or metal refuse cans with lids or in plastic bags. Do not store refuse cans in the front yard. Place needles in thick plastic containers labeled "SHARPS." For more information on medical wastes go the Fairfax County's web site
- Size/weight of can must not exceed 35 gallons or 60 pounds.
- Backdoor set-out service is provided for household refuse, except for townhouses. Townhouse residents must place all refuse at the curb. Refuse cans must be within 150 feet of the curb.
- Sofas, mattresses, televisions, tires and carpet placed at the curb will also be collected.
- Citizens may set out their own refuse at the curb no earlier than dusk the evening prior to collection. Refuse cans are to be removed from the street by 8 PM.

Recyclable Collection

Download Recycling Pocket Guide

- Each household is required to recycle plastic, milk, soda and water jugs, glass bottles and jars, metal and aluminum cans, newspapers with inserts, catalogs, magazines and flattened cardboard and paperboard. Containers must be rinsed and caps or lids removed. Place newspaper in plastic or paper bags. Cardboard must be flattened and be no larger than 3'x 3'x 6".
- Collection is once per week on regular refuse collection day. No call-in necessary.
- City-supplied or similar plastic bins are required and must be placed at the curb by 7 AM.

Relevant Links

- Fairfax County
- www.knowtoxics.com
- Contact Us

Relevant Agencies

- Public Works

- For bins, call 703.385.7995 or email. For missed pick ups, call 703.385.7995 or email.

Yard Waste

(grass & shrub clippings, twigs, limbs, acorns, flower & garden vegetation)

- **No call-in necessary. Pick up will be on regular household refuse collection day.** Place containers at curb on regular refuse collection day.
- All grass and shrub clippings, twigs, limbs, acorns, flower and garden vegetation may be intermixed and must be placed in plastic or paper bags, or labeled trashcans. All yard waste must be placed in containers. Do not place piles of yard waste in the street. The city will no longer clean up piles of yard waste directly from the street.
- Citizens are encouraged to leave grass clippings on the lawn or to compost. Free backyard composting classes are held four times per year. To register for a class, call 703.385.7995 or email

Metals/Appliances

(metals are banned from the landfill)

- **No call-in necessary. Pick up will be on regular household refuse collection day.**
- Stoves, hot water heaters, air conditioners, swing sets, car parts, storm doors and windows, etc., are collected.
- Doors must be removed from refrigerators and freezers.
- Place at curb no more than 24 hours before collection day.

Leaves

- **No call-in necessary.**
- Leaves are collected by vacuum suction trucks April 1 - 30, 2009 and November through December 2009.
- Leaves must be raked or placed at the curb or street edge. Do not mix limbs, branches, rocks, etc., with leaves as these items damage equipment. Grass clippings and acorns may be mixed with leaves.
- Bagged or canned leaves will not be collected during leaf season (April 1 - 30, and November through December, 2009).
- For collection of leaves other than dates in April, and November through December, leaves must be placed in paper or plastic bags, or trashcans and set at the curb the same as other yard waste for pick-up on regular trash collection day.

Brush and Stumps

- **No call-in necessary. Pick up will be on regular household refuse collection day.**
- Limbs, branches, tree trunks, etc., are to be no more than 8 feet in length.
- This service is for large piles of brush or stumps only. (For small amounts of twigs, brush and limbs, see instructions for "**Yard Waste.**")
- Do not place piles under POWER LINES or trees, or close to shrubs, walls or vehicles. Place all piles in an open area accessible to the crane truck.
- Large piles of brush may be placed at the curb one week prior to collection.

Lumber

- **No call-in necessary. Pick up will be on regular household refuse collection day.**
- Treated and untreated lumber must be placed at the curb in separate piles. Untreated lumber is ground into mulch; treated

lumber is toxic and must be disposed of by the city at special landfills.

- Lumber is to be no longer than 8 feet. **Please bend nails.**
- Large piles are collected by crane truck. Do not place materials under power lines or trees, or next to shrubs or vehicles. Place in an open area.
- Small amounts of untreated lumber can be placed in trash cans and set at curb with yard waste on regular trash collection day.

Debris: concrete, brick, asphalt, etc. 
(debris is banned from the landfill)

- **No call-in necessary. Pick up will be on regular household refuse collection day.**
- Large amounts of bulky material such as drywall, asphalt shingles, brick, concrete, rocks, plate glass, and railroad ties are collected. Separate piles.
- Loose dirt may not be placed at the curb. Please contact 703-385-7995 for details on restrictions and arrangement for pick up.
- Piles containing recyclables, such as brush, metals and leaves, will not be collected with debris.
- Small amounts of debris must be placed in trash cans weighing no more than 60 pounds.
- For propane tank disposal, tanks may be taken to Fairfax County Transfer Station, 4618 West Ox Road, and are accepted at no charge (703.324.5040 for information). Fairfax Propane also accepts tanks for a fee (703.352.5777 for information).
- Small amounts of debris not in containers will not be collected.
- Bend nails and other sharp objects.

Adopt-A-Truck 

The Adopt-a-Truck program runs from April through the end of September of each year. The city will park a dump truck at your home over a weekend. The homeowner loads the truck and the city picks up the truck on Monday morning. Adopt-a-trucks may be reserved for disposal of following items **only** - which are not collected curbside:

Roof Shingles
Concrete Rubble
Dirt/Sand

All projects must be done by the homeowner with no contractors or outside help. Only one truckload of each item will be collected per house, per year. Anything above that amount is the responsibility of the homeowner to dispose of. Call 703.385.7995 to reserve a truck or email.

Paint 

- Oil based paint is considered to be hazardous waste, please refer to Household Hazardous Waste information for proper disposal information.
- Latex based paints are not collected unless they are completely dried. To speed drying, leave tops off and add kitty litter. Dried latex paint cans may be placed at the curb with tops off for collection.

Household Hazardous Waste 

- Pesticides, oil-based paint, gasoline, thinner and other hazardous waste must be taken by the homeowner to the Fairfax County Transfer Station located at 4618 West Ox Road. Call 703.324.5068 for information or go to the County's web site [www.fairfaxva.gov](#).

Contractor's Debris and Yard Waste 

- Brush, leaves, grass clippings, building materials, etc., resulting from work performed by contractors will not be collected (Chapter 74, Section 74-4(F)(2) City Code). Contractors are required to haul away their own debris.

Penalty 

- Repeated violations of Refuse and Recycling Regulations can result in a \$25 fine.

If you have any questions, please call 703.385.7995 or email



City Hall
10455 Armstrong St.
Fairfax, Virginia 22030
Other Gov't Offices.

Information Provided by the Refuse & Recycling Division; 703.385.7995.
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Millard, Peter

From: King-Strickler, Joyce
Sent: Monday, November 09, 2009 3:29 PM
To: Millard, Peter
Subject: FW: Confined Space Entry & Avoiding Excavation Hazards Training

Peter,

Here you are.

Joyce

From: King-Strickler, Joyce
Sent: Wednesday, August 05, 2009 9:36 AM
To: _Department & Division Heads; Blevins, Charlie; Ray, David; Dodson, James; Kirby, James; Harrison, Jeff; Kirby, Joseph; Burgess, Kim; Hall, Lee; Cumes, Manuel; Redmond, Mike; Michael, Richard; Goodman, Robert; Walls, Steve; Dudley, Terry; Wortman, Tom; Thomas, Wayne
Subject: Confined Space Entry & Avoiding Excavation Hazards Training

Confined Space Entry

Target Audience: Employees and supervisors responsible for Confined Space programs and safety.

Objective: Designed to train employees on OSHA's Permit Required Confined Spaces standard 29 CFR 1910.146.

When: Thursday, August 20, 2009 – 10:00 a.m. until Noon

Where: City Hall, Work Session Rooms 1 & 2

Avoiding Excavation Hazards

Target Audience: Employees working in or around excavations and trenches five feet or more in depth.

Objective: Focuses on identifying risk factors and protecting employees from excavation hazards.

When: Thursday, August 20, 2009 – 1:00 p.m. until 3:00 p.m.

Where: City Hall, Work Session Rooms 1 & 2

Registration

Name _____

Work Phone _____

Department: _____

Check applicable session(s):

_____ Confined Space Entry

_____ Avoiding Excavation Hazards

Please return to Risk Management. Thanks.

FOIA Disclaimer

You are hereby advised that, pursuant to the Virginia Freedom of Information Act, written correspondence (including, but not limited to, letters, e-mails and faxes) from and to the City of Fairfax and its officials and employees, and others acting on its behalf, may be subject to disclosure as being a public record. This includes the e-mail address(es) and other contact and identifying information for parties involved in the correspondence.

Millard, Peter

From: Conaway, Katie [Katie.Conaway@deq.virginia.gov]
Sent: Friday, June 26, 2009 3:15 PM
To: Millard, Peter
Subject: RE: WLAs for City of Fairfax

Hi Peter,

We haven't completed any TMDL Studies for the City of Fairfax since we last emailed – thus, no new WLAs.

Thanks!

Katie

*Katie Conaway
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, Virginia 22193
Phone: (703) 583-3804
NEW EMAIL: Katie.Conaway@deq.virginia.gov
Website: www.deq.virginia.gov*

From: Millard, Peter [mailto:PMillard@fairfaxva.gov]
Sent: Thursday, June 25, 2009 12:27 PM
To: Conaway, Katie
Subject: RE: WLAs for City of Fairfax

atie,

Do you have an updated TMDL report for the City of Fairfax?

From: Conaway, Katie [mailto:mkconaway@deq.virginia.gov]
Sent: Thursday, January 29, 2009 11:02 AM
To: Millard, Peter
Cc: Fritz, Doug (DCR)
Subject: WLAs for City of Fairfax

Hi Peter,

I got your voicemail, and I thought it might be easier to respond via email. Below is some information regarding TMDL Waste Load Allocations (WLAs) for the City of Fairfax MS4 Permit. If you have specific questions about how these WLAs will be incorporated into your MS4 Permit, please contact Doug Fritz with VA DCR: (804) 371-7330. If you are interested in viewing any of the completed TMDL reports, they are all found online at <https://www.deq.virginia.gov/TMDLDataSearch/ReportSearch.aspx>

Thanks,

Katie

Major Watersheds within City of Fairfax:

- Accotink Creek
- Pohick Creek
- Popes Head Creek
- Difficult Run

Accotink Creek:

1. Completed Bacteria TMDL (Upper Watershed): Approved by EPA in 2002. This TMDL did not provide a specific WLA for the City of Fairfax because at the time of development, no MS4 permit had been issued to the City of Fairfax.

- Completed Bacteria TMDL (Lower Watershed): Approved by EPA in 2008. This TMDL focused on Accotink Creek below Lake Accotink, thus, the City of Fairfax was not included.

Difficult Run:

- Completed Bacteria TMDL: Approved by EPA in 2008. Included permit holders throughout the entire Difficult Run Watershed, thus, the City of Fairfax did receive a WLA. In this report, the WLA was assigned to MS4 permit holders as a group. See table below from the final TMDL Report:

Table 5-3: MS4 Wasteload Allocation for *E. coli*

Permit Number	MS4 Permit Holder	Wasteload Allocation (cfu/year)	Percent Reduction (%)
VAR040064	Fairfax City	9.44E+12	90%
VA0088587	Fairfax County		
VAR040066	Town of Vienna		
VAR040062	Total VDOT		
VAR040104	Fairfax County Public Schools		
VAR040111	George Washington Memorial Parkway		

- Completed Sediment TMDL: Approved by EPA in 2008. Included permit holders throughout the entire Difficult Run Watershed, thus, the City of Fairfax did receive a WLA. In this report, the WLA was assigned to MS4 permit holders as a group. See table below taken from the final TMDL Report:

Table 7-2: Total Wasteload Allocation by MS4 Location

Permit Number	MS4 Permit Holder ¹	Existing Load (tons/year)	Allocated Load (tons/year)	Percent Reduction(*)
VAR040064	Fairfax City	5,316.6	3,595	32
VA0088587	Fairfax County			
VAR040066	Town of Vienna			
VAR040062	Total VDOT			
VAR040104	Fairfax County Public Schools			
VAR040111	George Washington Memorial Parkway			

Popes Head Creek:

- Completed Bacteria TMDL: Approved by EPA in 2006. Included permit holders throughout the entire Popes Head Creek Watershed, thus, the City of Fairfax did receive a WLA. In this report, the WLA was assigned to MS4 permit holders as a group. See table below taken from the final TMDL Report:

Table 5-19: Popes Head Creek (Segment VAN-A23R-02) MS4s Waste load Allocation for E. coli

Permit Number	MS4 Permit Holder	MS4 Location	Existing Load (cfu/yr)	Allocated Load (cfu/yr)	Reduction (%)
VA0088587	Fairfax County	Fairfax County	1.08E+13	6.83E+11	94%
VAR040104	Fairfax County Public Schools				
VAR040062	VDOT Urban Areas				
VAR040064	City of Fairfax	City of Fairfax	1.62E+11	1.03E+10	94%
VAR040062	VDOT Urban Areas				
Total			1.10E+13	6.94E+11	94%

2. Completed Sediment TMDL: Approved by EPA in 2006. Included permit holders throughout the entire Popes Head Creek Watershed, thus, the City of Fairfax did receive a WLA. In this report, the WLA was assigned to MS4 permit holders as a group. See table below taken from the final TMDL Report:

MS4 Permit Number	MS4 Permit Holder	MS4 Area	Existing Loads (tons/year)	Allocated Load (tons/year)	% Reduction
VA0088587	Fairfax County	Fairfax County	2,175.0	1,571.5	27.7
VAR040104	Fairfax County Public Schools				
VAR040062	VDOT Urban Area				
VAR040064	City of Fairfax	City of Fairfax	31.3	22.6	27.7
VAR040062	VDOT Urban Area				
Total			2,206.3	1,594.1	27.7

Pohick Creek:

No Completed TMDLs to Date

Katie Conaway
 Virginia Department of Environmental Quality
 Northern Regional Office
 13901 Crown Court
 Woodbridge, Virginia 22193
 Phone: (703) 583-3804
 Email: mkconaway@deq.virginia.gov
 Website: www.deq.virginia.gov

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2008 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
A15R-01-BAC Recreation	Accotink Creek Escherichia coli	5A			7.34	2004	2016
A15R-01-BEN Aquatic Life	Accotink Creek Benthic-Macroinvertebrate Bioassessments	5A			7.34	1996	2010
A15R-03-BAC Recreation	Accotink Creek Escherichia coli	5A			1.20	2002	2014
A15R-04-BEN Aquatic Life	Accotink Creek Benthic-Macroinvertebrate Bioassessments	5A			0.85	2008	2020
A16R-01-BAC Recreation	Pohick Creek Escherichia coli	5A			3.21	2006	2018
A16R-02-BAC Recreation	Pohick Creek Escherichia coli	5A			1.52	2006	2018
A15E-01-BAC Recreation	Pohick Creek Escherichia coli	5A	1.504			2008	2020

2006 303(d) List Summary of Impaired Waters (Category 5) Needing TMDL Study*

Potomac and Shenandoah, River Basins

TMDL Watershed Name

TMDL Group ID	Use	Impairment	River (Miles)	Reservoir (Acres)	Estuary (Sq. Miles)	Initial List Date	TMDL Dev. Date
Accotink Creek							
00313	Aquatic Life	Total Size Benthic-Macroinvertebrate Bioassessments (Streams)	8.62			1998	2008
60150	Recreation	Total Size Escherichia coli	1.19			2004	2014
01784	Recreation	Total Size Fecal Coliform	8.62			2004	2016
Bull Run							
00234	Aquatic Life	Total Size Benthic-Macroinvertebrate Bioassessments (Streams)	4.80			1996	2008
60136	Fish Consumption	Total Size PCB in Fish Tissue	11.36	63.00		2006	2016
60058	Recreation	Total Size Escherichia coli	4.37			2006	2018