

TABLE 1
Number of Stream Samples Collected by Year

	1995	1996	1997	1998	1999
Number of Samples collected for Fecal Coliforms	1574	1536	1686	1528	1486
Number of Samples collected for Dissolved Oxygen	1574	1536	1686	1528	1486
Number of Samples collected for Total Phosphorous	1574	1536	1686	1528	1486
Number of Samples collected for pH	1574	1536	1686	1528	1486
Number of Samples collected for Nitrate Nitrogen	1574	1536	1686	1528	1486

TABLE 2
NUMBER OF FECAL COLIFORM SAMPLES
FOR EACH SAMPLING SITE

	REPORT FROM	01/01/99	TO	12/31/99	
SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml	
SUGARLAND RUN					
02-02	21	4	10	7	
02-03	21	2	15	4	
NICHOL RUN					
03-03	6	0	4	2	
POND BRANCH					
04-01	21	1	10	10	
04-02	21	4	9	8	
04-03	20	1	14	5	
DIFFICULT RUN					
05-01	21	1	8	12	
05-05	20	1	8	11	
05-09	19	2	8	9	
05-11	20	2	10	8	
05-12	19	0	6	13	
05-13	19	2	7	10	
05-15	21	2	10	9	
05-18	20	0	6	14	
05-19	19	1	9	9	
BULLNECK RUN					
06-02	21	5	8	8	
SCOTTS RUN					
07-01	21	3	9	9	
DEAD RUN					
08-02	21	1	8	12	
TURKEY RUN					
09-01	21	6	10	5	

TABLE 2
NUMBER OF FECAL COLIFORM SAMPLES
FOR EACH SAMPLING SITE

REPORT FROM	01/01/99	TO:	12/31/99		
SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml	
PIMMIT RUN					
10-02	21	3	9	9	
10-03	21	0	8	13	
10-04	21	3	11	7	
10-05	21	2	11	8	
FOUR MILE RUN					
11-03	20	1	6	13	
CAMERON RUN					
12-04	20	4	5	11	
12-05	20	1	11	8	
12-07	20	3	7	10	
12-12	20	3	10	7	
12-13	21	4	5	12	
12-14	21	3	9	9	
LITTLE HUNTING CREEK					
14-02	21	6	6	9	
14-03	20	1	11	8	
DOGUE CREEK					
15-06	21	1	8	12	
ACCOTINK CREEK					
16-03	20	1	8	11	
16-07	20	0	6	14	
16-08	20	1	10	9	
16-09	20	1	8	11	
16-12	21	3	7	11	
POHICK CREEK					
17-04	21	2	11	8	
17-05	21	4	6	11	
17-06	21	3	12	6	
17-08	21	2	7	12	
17-13	20	1	5	14	

TABLE 2
NUMBER OF FECAL COLIFORM SAMPLES
FOR EACH SAMPLING SITE

REPORT FROM: 01/01/99 TO 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
<hr/>				
MILL BRANCH				
20-01	21	4	8	9
20-02	21	5	10	6
20-03	21	10	3	8
SANDY RUN				
22-03	21	4	9	8
22-04	21	4	6	11
WOLF RUN				
24-01	19	3	9	7
24-02	20	2	12	6
OLD MILL BRANCH				
25-04	18	3	7	8
POPES HEAD CREEK				
26-02	18	2	11	5
26-03	19	3	11	5
26-05	19	2	8	9
JOHNNY MOORE CREEK				
27-01	19	3	11	5
LITTLE ROCKY RUN				
28-01	19	1	10	8
28-02	19	2	9	8
CUB RUN				
29-02	22	5	11	6
29-03	22	2	12	8
29-04	21	3	15	3
29-05	22	1	14	7
29-06	22	2	11	9
29-08	21	4	12	5
BULL RUN				
30-01	22	2	12	8
LAKE ACCOTINK				
LA-01	6	2	3	1
LA-02	6	0	3	3
LA-03	6	0	2	4
LA-04	3	1	0	2

TABLE 3
 Five Year Comparison of Stream Water Quality Data by
 Percentage of Samples in the Good Range For Fecal Coliforms
 (Less than 200 f.c. per 100 mg/1)

WATERSHED	1995	1996	1997	1998	1999
SUGARLAND RUN-02	12	11	14	12	14
NICHOL RUN-03	39	28	23	8	0
POND BRANCH-04	13	24	24	13	10
DIFFICULT RUN-05	21	16	15	8	6
BULLNECK RUN-06	36	4	21	8	24
SCOTTS RUN-07	39	32	30	4	14
DEAD RUN-08	17	9	4	4	5
TURKEY RUN-09	32	22	35	8	29
PIMMIT RUN-10	14	10	8	3	10
FOUR MILE RUN-11	10	14	13	4	5
CAMERON RUN-12	19	17	22	5	15
LITTLE HUNTING-14	10	13	10	5	17
DOGUE CREEK-15	33	22	13	18	5
ACCOTINK CREEK-16	17	12	13	7	13
POHICK CREEK-17	25	12	21	7	12
MILL BRANCH-20	36	24	21	4	30
SANDY RUN-22	41	17	27	9	19
WOLF RUN-24	30	31	24	10	13
OLD MILL-25	37	26	35	11	17
POPES HEAD-26	23	28	26	13	13
JOHNNY MOORE-27	25	17	13	21	16
LITTLE ROCKY-28	14	13	17	17	8
CUB RUN-29	25	16	19	15	13
BULL RUN-30	42	14	29	27	9

Table 4
Geometric Mean of Fecal Coliforms
Per 100/ml by Supervisor Districts
Five Year Survey

District/Stream Station Number	Collection Point	Year Collected				
		1995	1996	1997	1998	1999
BRADDOCK						
16-07 Long Branch	Braddock Rd	1240	854	811	695	1472
16-08 Accotink Ck	Braddock Rd	772	969	962	1006	991
DRANESVILLE						
02-02 Folly Lick Br	Hiddenbrook	976	969	861	665	642
02-03 Sugarland Run	Rt 7	1483	899	949	804	545
03-03 Jefferson Br	Springvale Rd	471	455	522	629	725
04-01 Mine Run Br	River Bend Rd	1038	648	560	478	833
04-02 Clarks Branch	Beach Mill Rd	1039	739	511	662	562
04-03 Pond Branch	Blackberry La	483	488	665	501	580
05-15 Capt Hickory Br	Fringe Tree Rd	964	696	812	563	808
05-19 Wolf Trap Run	Trap Rd	687	914	766	795	1032
06-02 Bull Neck Run	Georgetown Pk	422	946	470	487	616
07-01 Scott Run	Georgetown Pk	466	734	742	605	807
08-02 Dead Run	Whann St	928	1617	1299	949	1146
09-01 Turkey Run	George Wash Pk	500	1001	444	529	491
10-02 Pimmit Run	Old Dominion	1318	1967	1814	741	817
10-03 Pimmit Run	Kirby Rd	794	1393	1106	826	1295
10-04 Little Pimmit	Kirby Rd	912	1027	996	835	739
10-05 Pimmit Run	Westmoreland	1342	1834	1792	768	730
HUNTER MILL						
05-09 Difficult Run	Hunter Mill Rd	451	387	684	821	935
05-11 Wolf Trap Run	Browns Mill Rd	846	3968	2236	724	779
05-12 Difficult Run	Browns Mill Rd	759	644	1269	871	1433
05-13 Colvin Mill Run	Rt 7	651	615	495	733	914
05-18 Wolf Trap Cr	Lois Ave	889	804	977	639	1400
LEE						
12-14 Pikes Branch	Telegraph Rd	1251	1610	1059	552	742
16-09 Accotink Ck	Old Keene Mill	694	756	1337	677	941
MASON						
11-03 Long Branch	Glen Carlyn Rd	1607	1476	1380	846	1605
12-04 Tripps Run	Sleepy Hollow	1649	1040	919	790	918
12-05 Holmes Run	Sleepy Hollow	1164	550	689	930	998
12-07 Holmes Run	Glen Hills Pk	682	478	692	661	790
12-12 Turkey Cock	Edsall Rd	501	798	782	496	623
MT VERNON						
12-13 Cameron Run	Fenwick Drive	958	916	950	671	784
14-02 Lit Hunting Ck	Richmond Hwy	1319	1077	1121	947	724
14-03 North Branch	Colligwood Rd	1502	1506	1568	874	944
15-06 Dogue Creek	Mt Vernon Hwy	509	859	977	786	979
16-12 Long Branch	Backlick Rd	1367	1936	1243	702	905
17-06 Pohick Creek	Pohick Rd	518	1101	588	702	529

Table 4
Geometric Mean of Fecal Coliforms
Per 100/ml by Supervisor Districts
Five Year Survey

District/Stream Station Number Number	Collection Point	Year Collected					
		1995	1996	1997	1998	1999	
MT VERNON							
17-08	Pohick Creek	Old Colchester	464	1391	854	582	897
20-01	Giles Run	Lorton Rd	947	1577	1226	782	687
20-02	Giles Run	Old Colchester	468	1434	884	755	440
20-03	South Branch	Old Colchester	232	260	334	448	392
PROVIDENCE							
16-03	Accotink Creek	Barclay Dr	1008	1267	1042	990	1055
SPRINGFIELD							
17-04	Pohick Creek	Old Keene Mill	600	928	917	601	853
17-05	South Run	Lee Chapel Rd	499	479	684	484	763
17-13	Pohick Creek	Burke Lake Rd	798	853	1498	890	1325
22-03	Sandy Run	Henderson Rd	636	874	861	861	735
22-04	Sandy Run	Cathedral Forest	381	659	744	Not collected -----	
24-01	Wolf Run	Clifton Rd	627	434	661	566	579
24-02	Wolf Run	Henderson Rd	530	445	795	602	586
25-04	Bull Run	Old Yates Ford	562	659	531	565	591
26-02	Popes Head Ck	Popes Head Rd	650	668	688	562	600
26-03	Piney Branch	Popes Head Rd	708	471	370	554	534
26-05	Popes Head Ck	Clifton Creek	535	515	840	699	919
27-01	Johnny Moore Ck	Compton Rd	524	539	831	514	507
28-02	Little Rocky Run	Compton Rd	657	580	773	627	832
SULLY							
05-01	Difficult Run	Waples Mill & Fox Mill Rd	947	1128	555	466	981
05-05	Difficult Run	Vale Rd	430	411	993	766	1111
28-01	Little Rocky Run	Lee Hwy	1043	982	1130	506	869
29-02	Big Rocky Run	Braddock Rd	694	849	754	511	421
29-03	Cub Run	Braddock Rd	793	1424	760	600	646
29-04	Cub Run	Compton Rd	441	1490	662	484	458
29-05	Flatlick Branch	Lee Jackson Rd	928	830	840	981	670
29-06	Flatlick Branch	Braddock Rd	828	1007	641	606	692
29-08	Cub Run	Braddock Rd	366	777	527	500	446
30-01	Bull Run	Lee Hwy	373	1020	527	447	698

TABLE 5
 DISSOLVED OXYGEN (mg/l)
 REPORT FROM: 01/01/99 TO: 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
SUGARLAND RUN			
02-02	21	11.6	0
02-03	21	11.0	0
NICHOL RUN			
03-03	7	11.3	0
POND BRANCH			
04-01	21	11.0	0
04-02	21	10.5	0
04-03	20	11.2	0
DIFFICULT RUN			
05-01	22	12.0	0
05-05	20	10.7	0
05-09	19	10.9	0
05-11	20	11.7	0
05-12	19	10.6	0
05-13	19	11.7	0
05-15	21	11.4	0
05-18	20	11.3	0
05-19	19	11.6	0
BULLNECK RUN			
06-02	20	12.0	0
SCOTTS RUN			
07-01	21	12.7	0
DEAD RUN			
08-02	21	11.6	0
TURKEY RUN			
09-01	21	12.8	0

TABLE 5
 DISSOLVED OXYGEN (mg/l)
 REPORT FROM: 01/01/99 TO: 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
PIMMIT RUN			
10-02	20	12.3	0
10-03	21	12.6	0
10-04	21	12.7	0
10-05	21	13.0	0
FOUR MILE RUN			
11-03	20	12.8	0
CAMERON RUN			
12-04	20	12.4	0
12-05	20	12.5	0
12-07	20	12.8	0
12-12	20	11.5	0
12-13	20	11.4	0
12-14	20	11.4	0
LITTLE HUNTING CREEK			
14-02	20	10.8	0
14-03	20	9.9	0
DOGUE CREEK			
15-06	20	10.4	0
ACCOTINK CREEK			
16-03	20	11.2	0
16-07	20	12.4	0
16-08	20	11.7	0
16-09	19	11.9	0
16-12	20	12.2	0
POHICK CREEK			
17-04	21	11.9	0
17-05	21	12.1	0
17-06	21	11.8	0
17-08	21	11.9	0
17-13	20	11.2	0

TABLE 5
 DISSOLVED OXYGEN (mg/l)
 REPORT FROM: 01/01/99 TO: 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
MILL BRANCH			
20-01	21	12.3	0
20-02	21	11.5	0
20-03	21	6.6	23.8
SANDY RUN			
22-03	21	12.7	0
22-04	21	12.6	0
WOLF RUN			
24-01	18	11.5	0
24-02	20	12.3	0
OLD MILL BRANCH			
25-04	18	11.4	0
POPES HEAD CREEK			
26-02	18	12.2	0
26-03	19	12.9	0
26-05	19	12.6	0
JOHNNY MOORE CREEK			
27-01	19	11.2	0
LITTLE ROCKY RUN			
28-01	20	11.0	0
28-02	19	13.0	0
CUB RUN			
29-02	22	11.9	0
29-03	22	11.0	0
29-04	22	11.8	0
29-05	20	11.2	0
29-06	22	10.9	0
29-08	22	11.7	0
BULL RUN			
30-01	21	11.3	0
LAKE ACCOTINK			
LA-O1	6	11.3	0
LA-O2	6	11.6	0
LA-O3	6	10.9	0
LA-O4	3	12.3	0

TABLE 6
 AVERAGES FOR NITRATE NITROGEN (mg/1)
 PH VALUES AND TOTAL PHOSPHOROUS (mg/1)
 REPORT FROM: 01/01/99 TO: 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHOROUS
SUGARLAND RUN				
02-02	21	1.8	7.5	0.1
02-03	21	1.1	7.5	0.1
NICHOL RUN				
03-03	7	0.5	7.2	0.1
POND BRANCH				
04-01	21	1.0	7.2	0.1
04-02	21	1.8	7.0	0.1
04-03	20	1.7	7.2	0.1
DIFFICULT RUN				
05-01	22	0.8	7.2	0.1
05-05	20	1.0	7.2	0.1
05-09	19	0.9	7.1	0.1
05-11	20	1.3	7.2	0.1
05-12	19	0.9	6.9	0.1
05-13	19	1.2	7.1	0.1
05-15	21	1.8	7.2	0.1
05-18	20	0.9	7.2	0.1
05-19	19	1.0	7.2	0.1
BULLNECK RUN				
06-02	20	2.4	7.3	0.1
SCOTT'S RUN				
07-01	21	1.1	7.7	0.1
DEAD RUN				
08-02	21	2.0	7.2	0.1
TURKEY RUN				
09-01	21	1.2	7.7	0.1

TABLE 6
 AVERAGES FOR NITRATE NITROGEN (mg/1)
 PH VALUES AND TOTAL PHOSPHOROUS (mg/1)
 REPORT FROM: 01/01/99 TO 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHOROUS
PIMMIT RUN				
10-02	20	1.2	7.4	0.1
10-03	21	1.4	7.5	0.1
10-04	21	1.5	7.6	0.1
10-05	21	1.3	7.7	0.1
FOUR MILE RUN				
11-03	20	1.3	7.4	0.1
CAMERON RUN				
12-04	20	2.0	7.4	0.1
12-05	20	0.7	7.4	0.1
12-07	20	0.7	7.4	0.1
12-12	20	0.9	7.2	0.1
12-13	20	0.6	7.1	0.1
12-14	20	1.0	7.4	0.1
LITTLE HUNTING CREEK				
14-02	20	1.0	7.0	0.2
14-03	20	0.7	6.9	0.2
DOGUE CREEK				
15-06	20	0.4	6.9	0.1
ACCOTINK CREEK				
16-03	20	0.7	7.1	0.1
16-07	20	0.7	7.2	0.1
16-08	20	0.8	7.1	0.1
16-09	19	0.6	7.2	0.1
16-12	20	0.5	7.0	0.1
POHICK CREEK				
17-04	21	0.4	7.4	0.1
17-05	21	0.2	6.9	0.2
17-06	21	0.3	7.4	0.1
17-08	21	0.3	7.2	0.1
17-13	20	0.4	7.1	0.1

TABLE 6
 AVERAGES FOR NITRATE NITROGEN (mg/1)
 PH VALUES AND TOTAL PHOSPHOROUS (mg/1)

REPORT FROM: 01/01/99 TO 12/31/99

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHOROUS
MILL BRANCH				
20-01	21	0.8	7.6	0.1
20-02	21	0.7	7.2	0.1
20-03	21	0.3	7.2	0.2
SANDY RUN				
22-03	21	0.3	7.2	0.1
22-04	21	0.3	7.2	0.1
WOLF RUN				
24-01	18	0.1	7.2	0.1
24-02	20	0.2	7.3	0.1
OLD MILL BRANCH				
25-04	18	4.8	7.5	0.1
POPES HEAD CREEK				
26-02	18	1.1	7.4	0.1
26-03	19	0.7	7.5	0.1
26-05	19	0.5	7.4	0.1
JOHNNY MOORE CREEK				
27-01	19	0.6	7.2	0.1
LITTLE ROCKY RUN				
28-01	20	0.3	7.3	0.1
28-02	19	0.7	7.7	0.1
CUB RUN				
29-02	22	0.6	7.5	0.1
29-03	22	0.7	7.6	0.1
29-04	22	0.7	7.8	0.1
29-05	20	1.5	7.4	0.1
29-06	22	1.1	7.5	0.1
29-08	22	0.6	7.7	0.1
BULL RUN				
30-01	21	0.4	7.4	0.1
LAKE ACCOTINK				
LA-01	6	0.2	7.2	0.1
LA-02	6	0.2	7.4	0.1
LA-03	6	0.2	7.3	0.1
LA-04	3	0.2	7.3	0.1

Table 7
Geometric Mean of Nitrate Nitrogen
by Watershed
Five Year Survey

Watershed	Year Collected				
	1995	1996	1997	1998	1999
02-Sugarland Run	1.3	1.7	1.2	0.9	1.1
03-Nichol Run	0.7	1.1	0.7	1.0	0.4
04-Pond Branch	1.3	1.2	1.4	1.5	1.4
05-Difficult Run	1.0	1.2	1.2	1.1	0.9
06-Bullneck Run	2.0	2.2	2.1	1.7	2.2
07-Scotts Run	1.0	1.4	1.3	1.1	1.0
08-Dead Run	2.0	2.5	2.1	1.6	1.8
09-Turkey Run	1.2	1.2	1.2	1.1	1.1
10-Pimmit Run	1.4	1.5	1.5	1.2	1.1
11-Four Mile Run	1.1	1.6	1.4	1.3	0.9
12-Cameron Run	0.8	0.9	0.9	0.7	0.8
14-Little Hunting Creek	0.7	1.0	0.7	0.7	0.7
15-Douge Creek	0.2	0.2	0.2	0.2	0.2
16-Accotink Creek	0.6	0.9	0.7	0.5	0.6
17-Pohick Creek0.3	0.4	0.3	0.3	0.3	
20-Mill Branch	0.6	0.4	0.5	0.3	0.4
22-Sandy Run	0.3	0.4	0.3	0.2	0.3
24-Wolf Run	0.2	0.3	0.2	0.2	0.2
25-Old Mill Branch	3.0	1.9	3.0	3.5	3.7
26-Popes Head Creek	0.8	0.9	0.8	0.8	0.7
27-Johnny Moore Creek	0.6	0.9	0.7	0.4	0.5
28-Little Rocky Run	0.4	0.6	0.5	0.3	0.3
29-Cub Run	0.6	0.8	0.6	0.4	0.7
30-Bull Run	0.2	0.4	0.3	0.2	0.3

Table 8
Geometric Mean of pH
by Watershed
Five Year Survey

Watershed	Year Collected				
	1995	1996	1997	1998	1999
02-Sugarland Run	7.5	7.2	7.4	7.5	7.5
03-Nichol Run	7.3	6.9	7.2	7.1	7.2
04-Pond Branch	7.2	6.8	7.0	7.1	7.1
05-Difficult Run	7.3	7.0	7.1	7.1	7.1
06-Bullneck Run	7.3	7.1	7.2	7.3	7.3
07-Scotts Run	7.6	7.3	7.5	7.5	7.7
08-Dead Run	7.3	7.1	7.2	7.0	7.2
09-Turkey Run	7.6	7.4	7.7	7.7	7.7
10-Pimmit Run	7.6	7.3	7.5	7.6	7.6
11-Four Mile Run	7.6	7.0	7.2	7.1	7.4
12-Cameron Run	7.4	7.1	7.3	7.2	7.3
14-Little Hunting Creek	7.1	6.7	6.9	6.8	6.9
15-Douge Creek	7.0	6.8	6.8	6.9	6.9
16-Accotink Creek	7.3	7.1	7.2	7.2	7.3
17-Pohick Creek	7.2	7.0	7.1	7.1	7.2
20-Mill Branch	7.5	7.1	7.2	7.2	7.3
22-Sandy Run	7.4	7.1	7.5	7.1	7.2
24-Wolf Run	7.3	7.0	7.6	7.2	7.2
25-Old Mill Branch	7.7	7.2	7.5	7.6	7.5
26-Popes Head Creek	7.4	7.1	7.4	7.4	7.4
27-Johnny Moore Creek	7.4	7.0	7.1	7.3	7.2
28-Little Rocky Run	7.5	7.2	7.4	7.5	7.5
29-Cub Run	7.5	7.2	7.5	7.5	7.6
30-Bull Run	7.4	7.1	7.4	7.3	7.4

Table 9
 Geometric Mean of Total Phosphorous (mg/l)
 by Watershed
 Five Year Survey

Watershed	Year Collected				
	1995	1996	1997	1998	1999
02-Sugarland Run	0.11	0.10	0.10	0.11	0.10
03-Nichol Run	0.11	0.10	0.09	0.10	0.10
04-Pond Branch	0.10	0.10	0.10	0.10	0.10
05-Difficult Run	0.10	0.10	0.10	0.10	0.10
06-Bullneck Run	0.11	0.11	0.10	0.10	0.10
07-Scotts Run	0.11	0.10	0.09	0.10	0.10
08-Dead Run	0.10	0.11	0.10	0.10	0.11
09-Turkey Run	0.11	0.11	0.09	0.10	0.10
10-Pimmit Run	0.11	0.11	0.09	0.10	0.10
11-Four Mile Run	0.10	0.10	0.10	0.10	0.10
12-Cameron Run	0.10	0.11	0.10	0.11	0.10
14-Little Hunting Creek	0.11	0.12	0.11	0.12	0.16
15-Douge Creek	0.11	0.11	0.12	0.11	0.11
16-Accotink Creek	0.11	0.10	0.10	0.10	0.10
17-Pohick Creek	0.10	0.10	0.10	0.10	0.11
20-Mill Branch	0.11	0.11	0.13	0.14	0.12
22-Sandy Run	0.10	0.10	0.09	0.10	0.10
24-Wolf Run	0.11	0.10	0.10	0.10	0.10
25-Old Mill Branch	0.11	0.11	0.10	0.12	0.10
26-Popes Head Creek	0.11	0.10	0.10	0.10	0.10
27-Johnny Moore Creek	0.11	0.11	0.10	0.11	0.10
28-Little Rocky Run	0.11	0.11	0.10	0.10	0.10
29-Cub Run	0.10	0.11	0.10	0.11	0.10
30-Bull Run	0.10	0.11	0.10	0.10	0.10

Table 10
Stream Water Sample Temperature Ranges
(Degrees in Fahrenheit)

	Temperature Averages (Geometric Mean)				
	1995	1996	1997	1998	1999
January	39	37	38	43	38
February	38	42	45	46	41
March	51	44	48	48	45
April	53	52	55	57	55
May	61	61	59	66	62
June	70	72	66	71	70
July	76	74	72	72	73
August	76	72	72	75	74
September	66	67	66	71	64
October	58	59	58	60	55
November	45	46	45	50	48
December	37	44	40	45	42
	High & Low Temperature				
	1995	1996	1997	1998	1999
January					
High	56	60	60	59	59
Low	32	30	9	34	32
February					
High	55	63	62	60	60
Low	31	32	32	38	34
March					
High	62	58	61	72	65
Low	37	32	42	42	35
April					
High	66	68	68	66	68
Low	41	39	0	49	34
May					
High	72	86	74	80	73
Low	44	50	50	55	48
June					
High	88	88	82	81	83
Low	62	60	56	59	61
July					
High	86	90	82	84	83
Low	67	66	66	64	63
August					
High	88	78	80	84	82
Low	65	67	65	65	62
September					
High	82	83	75	83	76
Low	56	54	58	61	47
October					
High	72	68	80	67	64
Low	50	48	44	51	41
November					
High	59	65	60	62	62
Low	38	38	36	36	38
December					
High	50	60	55	60	58
Low	27	38	35	32	35

Table 11
 Lake Accotink Park
 Results
 (All averages are Geometric Mean)

Percentage of Fecal Coliforms in the Good Range
 (Less than 200 Fecal Coliform/ 100 ml)

Station	1995	1996	1997	1998	1999
LA-01	20	33	25	13	33
LA-02	20	33	13	0	0
LA-03	40	17	13	0	0
LA-04	20	17	13	0	33

Average Dissolved Oxygen (mg/l) By Station

Station	1995	1996	1997	1998	1999
LA-01	7.5	6.8	7.3	8.8	10.8
LA-02	7.7	7.3	7.1	8.2	11.5
LA-03	7.5	6.1	7.4	8.2	10.7
LA-04	7.5	6.1	7.4	8.2	10.7

Percent of Samples Less than 4 mg/l of Dissolved Oxygen

Station	1995	1996	1997	1998	1999
LA-01	0	0	0	0	0
LA-02	0	0	0	0	0
LA-03	0	0	0	0	0
LA-04	0	17	0	0	0

Average Nitrate Nitrogen (mg/l)

Station	1995	1996	1997	1998	1999
LA-01	0.27	0.54	0.25	0.34	0.19
LA-02	0.28	0.67	0.32	0.34	0.17
LA-03	0.21	0.70	0.27	0.38	0.18
LA-04	0.31	0.68	0.25	0.37	0.14

Average pH

Station	1995	1996	1997	1998	1999
LA-01	7.4	7.0	7.0	7.2	7.2
LA-02	7.4	7.0	7.0	7.3	7.4
LA-03	7.4	6.9	7.1	7.2	7.3
LA-04	7.5	7.0	7.1	7.2	7.3

Average Total Phosphorous (mg/l)

Station	1995	1996	1997	1998	1999
LA-01	0.10	0.11	0.10	0.12	0.10
LA-02	0.11	0.11	0.10	0.11	0.10
LA-03	0.10	0.10	0.10	0.11	0.10
LA-04	0.11	0.10	0.09	0.12	0.10

TABLE 12
CITY OF FAIRFAX STREAM SAMPLE RESULTS
FOR EACH SAMPLING STATION

NUMBER OF FECAL COLIFORM SAMPLES

STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
16-20	21	1	9	11
16-21	21	4	9	8
16-22	21	2	9	10
16-23	20	3	10	7
16-24	20	3	11	6
16-25	20	5	7	8
16-26	20	4	9	6

STATION	# SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4 MG/L
16-20	20	10.8	0
16-21	20	12.0	0
16-22	20	12.9	0
16-23	20	12.6	0
16-24	20	12.5	0
16-25	20	12.2	0
16-26	20	12.8	0
16-27	20	11.7	0

STATION	# SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE pH	AVERAGE TOTAL PHOSPHOROUS
16-20	20	0.8	7.5	0.1
16-21	20	0.8	7.5	0.1
16-22	20	0.9	7.6	0.1
16-23	20	1.0	7.4	0.1
16-24	20	0.9	7.5	0.1
16-25	20	1.2	7.4	0.1
16-26	20	0.6	7.4	0.1
16-27	20	0.4	7.3	0.1

Table 13
 Log Average of Heavy Metals by Watershed
NOTE: PMCL = Primary Maximum Contaminant Level
 1989 - 1998

METAL (PMCL)	RESULTS(mg/l)
01- HORSEPEN CREEK:	
Arsenic(0.05mg/l)	0.002
Barium (1.00mg/l)	0.066
Cadmium (0.01mg/l)	0.001
Chromium (0.05mg/l)	0.001
Lead (0.05mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
02- SUGARLAND RUN:	
Arsenic (0.05mg/l)	0.001
Barium (1.00mg/l)	0.046
Cadmium (0.01mg/l)	0.001
Chromium (0.05mg/l)	0.001
Lead (0.05mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001
03- NICHOL RUN:	
Arsenic (0.05mg/l)	0.001
Barium (1.00mg/l)	0.015
Cadmium (0.01mg/l)	0.001
Chromium (0.05mg/l)	0.001
Lead (0.05mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.002
04- POND BRANCH:	
Arsenic (0.05mg/l)	0.001
Barium (1.00mg/l)	0.020
Cadmium (0.01mg/l)	0.001
Chromium (0.05mg/l)	0.001
Lead (0.05mg/l)	0.001
Mercury (0.02 mg/l)	Below Detection Limits
Selenium (0.01 mg/l)	0.002
Silver (0.05 mg/l)	0.001

Table 13
 Log Average of Heavy Metals by Watershed
NOTE: PMCL =Primary Maximum Contaminate Level
 1989 - 1998

METAL (PMCL)	RESULTS(mg/1)
05- DIFFICULT RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.021
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.001
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.002
Silver (0.05 mg/1)	0.001
06- BULLNECK RUN:	
Arsenic (0.05 mg/1)	0.001
Barium (1.00 mg/1)	0.014
Cadmium (0.01mg/1)	Below Detection Limits
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.001
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01mg/1)	0.001
Silver (0.05mg/1)	Below Detection Limits
07- SCOTTS RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.018
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.002
Mercury (0.02 mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.001
Silver (0.05 mg/1)	0.001
08- DEAD RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.017
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.002
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.002
Silver (0.05 mg/1)	0.001

Table 13
 Log Average of Heavy Metals by Watershed
NOTE: PMCL = Primary Maximum Contaminate Level
 From 1989 TO 1998

METAL (PMCL)	RESULTS(mg/1)
09- TURKEY RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.021
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.001
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.002
Silver (0.05 mg/1)	0.001
10- PIMMIT RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.023
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.001
Mercury (0.02 mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.002
Silver (0.05 mg/1)	0.001
11- FOUR MILE RUN:	
Arsenic (0.05mg/1)	Below Detection Limits
Barium (1.00mg/1)	0.020
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.002
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01mg/1)	0.002
Silver (0.05mg/1)	0.001
12- CAMERON RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.035
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.002
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.002
Silver (0.05mg/1)	0.001

Table 13
 Log Average of Heavy Metals by Watershed
 From 1989 TO 1998
NOTE: PMCL = Primary Maximum Contaminate Level

METAL (PMCL)	RESULTS (mg/1)
14- LITTLE HUNTING:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.035
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.002
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01mg/1)	0.002
Silver (0.05mg/1)	0.001
15- DOGUE CREEK:	
Arsenic (0.05mg/1)	0.002
Barium (1.00mg/1)	0.031
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	Below Detection Limits
Lead (0.05mg/1)	0.002
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.001
Silver (0.05 mg/1)	0.001
16- ACCOTINK CREEK:	
Arsenic (0.05 mg/1)	0.001
Barium (1.00 mg/1)	0.020
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.002
Mercury (0.02 mg/1)	Below Detection Limits
Selenium (0.01mg/1)	0.002
Silver (0.05mg/1)	0.001
17- POHICK CREEK:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.022
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.001
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01mg/1)	0.002
Silver (0.05mg/1)	0.001

Table 13
 Log Average of Heavy Metals by Watershed
 From 1989 TO 1998
NOTE: PMCL = Primary Maximum Contaminate Level

	METAL (PMCL)	RESULTS (mg/1)
20- MILL BRANCH:		
	Arsenic (0.05mg/1)	0.001
	Barium (1.00mg/1)	0.043
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.003
	Mercury (0.02 mg/1)	Below Detection Limits
	Selenium (0.01 mg/1)	0.002
	Silver (0.05 mg/1)	0.001
22- SANDY RUN:		
	Arsenic (0.05mg/1)	0.001
	Barium (1.00mg/1)	0.029
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.001
	Mercury (0.02 mg/1)	Below Detection Limits
	Selenium (0.01 mg/1)	0.002
	Silver (0.05 mg/1)	0.001
24- WOLF RUN:		
	Arsenic (0.05mg/1)	Below Detection Limits
	Barium (1.00mg/1)	0.018
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.001
	Mercury (0.02mg/1)	Below Detection Limits
	Selenium (0.01mg/1)	0.002
	Silver (0.05mg/1)	0.001
25- OLD MILL:		
	Arsenic (0.05mg/1)	0.002
	Barium (1.00mg/1)	0.036
	Cadmium (0.01mg/1)	Below Detection Limits
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.002
	Mercury (0.02mg/1)	Below Detection Limits
	Selenium (0.01mg/1)	0.001
	Silver (0.05mg/1)	Below Detection Limits

Table 13
 Log Average of Heavy Metals by Watershed
 From 1989 TO 1998
NOTE: PMCL = Primary Maximum Contaminate Level

	METAL (PMCL)	RESULTS (mg/1)
26- POPES READ:		
	Arsenic (0.05mg/1)	0.001
	Barium (1.00mg/1)	0.019
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.001
	Mercury (0.02 mg/1)	Below Detection Limits
	Selenium (0.01 mg/1)	0.002
	Silver (0.05 mg/1)	0.001
27- JOHNNY MOORE RUN:		
	Arsenic (0.05 mg/1)	Below Detection Limits
	Barium (1.00 mg/1)	0.017
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.001
	Mercury (0.02mg/1)	Below Detection Limits
	Selenium (0.01mg/1)	0.002
	Silver (0.05mg/1)	0.001
28- LITTLE ROCKY RUN:		
	Arsenic (0.05mg/1)	0.001
	Barium (1.00mg/1)	0.033
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.002
	Mercury (0.02 mg/1)	Below Detection Limits
	Selenium (0.01 mg/1)	0.002
	Silver (0.05 mg/1)	0.001
29- CUB RUN:		
	Arsenic (0.05mg/1)	0.001
	Barium (1.00mg/1)	0.046
	Cadmium (0.01mg/1)	0.001
	Chromium (0.05mg/1)	0.001
	Lead (0.05mg/1)	0.002
	Mercury (0.02mg/1)	Below Detection Limits
	Selenium (0.01 mg/1)	0.002
	Silver (0.05 mg/1)	0.001

Table 13
 Log Average of Heavy Metals by Watershed
 From 1989 TO 1998
NOTE: PMCL = Primary Maximum Contaminate Level

METAL (PMCL)	RESULTS (mg/1)
30- BULL RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.027
Cadmium (0.01mg/1)	0.001
Chromium (0.05mg/1)	0.001
Lead (0.05mg/1)	0.001
Mercury (0.02mg/1)	Below Detection Limits
Selenium (0.01mg/1)	0.002
Silver (0.05 mg/1)	0.001