

**TABLE 1A
NUMBER OF VISITS MADE FOR SAMPLING
BY YEAR**

	1996	1997	1998	1999	2000
Number of Samples collected for Fecal Coliforms	1536	1686	1520	1486	1277
Number of Samples collected for Dissolved Oxygen	1536	1686	1520	1486	1277
Number of Samples collected for Total Phosphorous	1536	1686	1520	1486	1277
Number of Samples collected for pH	1536	1686	1520	1486	1277
Number of Samples collected for Nitrate Nitrogen	1536	1686	1520	1486	1277

**TABLE 1B
NUMBER OF SAMPLES COLLECTED
BY TYPE OF SAMPLE
FOR 2000**

FECAL COLIFORMS	1277
DISSOLVED OXYGEN	1122
NITRATE NITROGEN	965
TOTAL PHOSPHOROUS	981
PH	1122

**TABLE 2
NUMBER OF FECAL COLIFORM SAMPLES
FOR EACH SAMPLING SITE**

REPORT FROM 01/01/2000 TO 12/31/2000

SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
HORSEPEN CREEK				
01-01	14	2	11	1
SUGARLAND RUN				
02-02	16	1	14	1
02-03	17	2	12	3
NICHOL RUN				
03-03	11	1	5	5
POND BRANCH				
04-01	17	2	12	3
04-02	17	2	10	5
04-03	17	3	11	3
DIFFICULT RUN				
05-01	16	4	9	3
05-05	14	2	8	4
05-09	14	2	8	4
05-11	14	3	9	2
05-12	14	2	10	2
05-13	14	2	8	4
05-15	17	2	13	2
05-16	17	2	7	8
05-18	14	1	7	6
05-19	14	3	7	4
BULLNECK RUN				
06-02	16	4	7	5
SCOTTS RUN				
07-01	16	2	10	4
DEAD RUN				
08-02	16	1	10	5
TURKEY RUN				
09-01	16	4	6	6

TABLE 2
NUMBER OF FECAL COLIFORM SAMPLES
FOR EACH SAMPLING SITE

REPORT FROM: 01/01/2000 TO 12/31/2000

SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
PIMMIT RUN				
10-02	16	2	11	3
10-03	16	2	6	8
10-04	16	2	9	5
10-05	15	1	14	0
FOUR MILE RUN				
11-03	19	1	12	6
CAMERON RUN				
12-04	19	3	10	6
12-05	19	1	11	7
12-07	19	3	10	6
12-12	16	3	12	1
12-13	15	1	9	5
12-14	15	2	11	2
LITTLE HUNTING CREEK				
14-02	16	5	8	3
14-03	16	1	11	4
DOGUE CREEK				
15-06	15	2	10	3
ACCOTINK CREEK				
16-03	19	1	13	5
16-07	19	1	13	5
16-08	18	1	13	4
16-09	19	1	14	4
16-12	16	5	10	1
POHICK CREEK				
17-04	14	3	8	3
17-05	14	1	11	2
17-06	14	2	8	4
17-08	13	1	8	4
17-13	15	2	11	2

TABLE 2
NUMBER OF FECAL COLIFORM SAMPLES
FOR EACH SAMPLING SITE

REPORT FROM:		01/01/2000		TO 12/31/2000	
SAMPLE STATION	TOTAL SAMPLES COLLECTED	<200 per 100 m1	200-1000 per 100 ml	>1000 per 100 ml	
MILL BRANCH					
20-01	14	1	12	1	
20-02	14	1	10	3	
SANDY RUN					
22-03	14	1	9	4	
22-04	14	0	9	5	
WOLF RUN					
24-01	16	1	10	5	
24-02	16	2	13	1	
OLD MILL BRANCH					
25-04	12	2	6	4	
POPES HEAD CREEK					
26-02	16	3	9	4	
26-03	16	1	10	5	
26-05	16	2	7	7	
JOHNNY MOORE CREEK					
27-01	16	2	11	3	
LITTLE ROCKY RUN					
28-01	15	6	7	2	
28-02	16	1	13	2	
CUB RUN					
29-02	16	5	8	3	
29-03	17	2	11	4	
29-04	16	5	7	4	
29-05	17	5	7	5	
29-06	16	4	10	2	
29-08	16	5	7	4	
BULL RUN					
30-01	17	6	9	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/l)

Five Year Survey From	1996	1996	1998	To	2000
WATERSHED	1996	1991	1998	1999	2000
HORSEPEN CREEK-01	25	13	6	5	11
SUGARLAND RUN-02	11	14	12	14	13
NICHOL RUN-03	28	23	8	0	14
POND BRANCH-04	24	24	13	10	14
DIFFICULT RUN-05	16	15	9	6	16
BULLNECK RUN-06	4	21	8	24	25
SCOTTS RUN-07	32	30	4	14	13
DEAD RUN-08	9	4	4	5	6
TURKEY RUN-09	22	35	8	29	25
PIMMIT RUN-10	10	8	3	10	11
FOUR MILE RUN-11	14	13	4	5	5
CAMERON RUN-12	17	22	5	15	12
LITTLE HUNTING-14	13	10	5	17	19
DOGUE CREEK-15	22	13	18	5	13
ACCOTINK CREEK-16	12	13	7	13	10
POHICK CREEK-17	12	21	7	12	13
MILL BRANCH-20	24	21	4	30	6
SANDY RUN-22	17	27	7	19	4
WOLF RUN-24	31	24	10	13	9
OLD MILL-25	26	35	11	17	17
POPES HEAD-26	28	26	13	13	13
JOHNNY MOORE-27	17	13	21	16	13
LITTLE ROCKY-28	13	17	17	8	23
CUB RUN-29	16	19	15	13	26
BULL RUN-30	14	29	30	9	35

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

District/ Station Number	Stream Name	Collection point	Five Year Survey From 1996 To 2000				
			1996	1997	1998	1999	2000
BRADDOCK							
16-07	Long Branch	Braddock Rd	854	811	695	1472	657
16-08	Accotink Creek	Braddock Rd	969	962	1006	991	604
DRANESVILLE							
02-02	Folly Lick Br	Hiddenbrook	969	861	665	642	547
02-03	Sugarland Run	Rt 7	899	949	804	545	478
03-03	Jefferson Br	Springvale Rd	455	522	629	725	814
04-01	Mine Run Br	River Bend Rd	648	560	478	833	545
04-02	Clarks Branch	Beach Mill Rd	739	511	662	562	541
04-03	Pond Branch	Blackberry La	488	665	501	580	469
05-15	Capt Hickory Br	Fringe Tree Rd	696	812	563	808	500
05-19	Wolf Trap Run	Trap Rd	914	766	795	1032	524
06-02	Bull Neck Run	Georgetown Pk	946	470	487	616	491
07-01	Scott Run	Georgetown Pk	734	742	605	807	512
08-02	Dead Run	Whann St	1617	1299	949	1146	664
09-01	Turkey Run	George Wash Pk	1001	444	529	491	491
10-02	Pimmit Run	Old Dominion	1967	1809	741	817	515
10-03	Pimmit Run	Kirby Rd	1393	1106	826	1295	786
10-04	Little Pimmit	Kirby Rd	1027	996	835	739	603
10-05	Pimmit Run	Westmoreland	1834	1792	768	730	364
HUNTER MILL							
01-01	Horsepen Run	Centreville Rd	764	825	584	939	432
05-09	Difficult Run	Hunter Mill Rd	387	684	821	935	486
05-11	Wolf Trap Run	Browns Mill Rd	3968	2236	725	779	459
05-12	Difficult Run	Browns Mill Rd	644	1269	871	1433	498
05-13	Colvin Mill Run	Rt 7	615	495	733	914	629
05-18	Wolf Trap Creek	Lois Ave	804	977	639	1400	657
LEE							
12-14	Pikes Branch	Telegraph Rd	1610	1059	552	742	413
16-09	Accotink Creek	Old Keene Mill	756	1337	677	941	640
MASON							
11-03	Long Branch	Glen Carlyn Rd	1476	1380	846	1605	606
12-04	Tripps Run	Sleepy Hollow	1040	919	790	918	584
12-05	Holmes Run	Sleepy Hollow	550	689	930	998	730
12-07	Holmes Run	Glen Hills Pk	478	692	661	790	565
12-12	Turkey Cock	Edsall Rd	798	782	496	623	419
MT VERNON							
12-13	Cameron Run	Fenwick Drive	916	950	671	784	660
14-02	Lit Hunting Creek	Richmond Hwy	1077	1121	939	724	426

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

District/ Station Number	Stream Name	Collection point	Five Year Survey From 1996 To 2000				
			1996	1997	1998	1999	2000
MT VERNON							
14-03	Lit Hunting Creek	Richmond Hwy	1506	1568	877	944	574
16-12	Long Branch	Backlick Rd	1936	1243	702	905	332
17-06	Pohick Creek	Pohick Rd	1101	588	702	529	590
17-08	Pohick Creek	Old Colchester	1391	854	582	897	629
20-01	Giles Run	Lorton Rd	1577	1226	805	687	648
20-02	Giles Run	Old Colchester	1434	884	755	440	657
20-03	South Branch	Old Colchester	260	334	448	392	1039
PROVIDENCE							
16-03	Accotink Creek	Barclay Dr	1267	1042	990	1055	593
SPRINGFIELD							
17-04	Pohick Creek	Old Keene Mill	928	917	601	853	498
17-05	South Run	Lee Chapel Rd	479	684	484	763	670
17-13	Pohick Creek	Burke Lake Rd	853	1493	926	1325	410
22-03	Sandy Run	Henderson Rd	874	861	861	735	551
22-04	Sandy Run	Cathedral For	659	744	702	690'	718
24-01	Wolf Run	Clifton Rd	434	661	566	579	775
24-02	Wolf Run	Henderson Rd	445	795	602	586	520
25-04	Bull Run	Old Yates Ford	659	531	565	591	560
26-02	Popes Head Creek	Popes Head Rd	668	688	562	600	532
26-03	Piney Branch	Popes Head Rd	471	370	554	534	530
26-05	Popes Head Creek	Clifton Creek	515	840	699	919	625
27-01	Johnny Moore Creek	Compton Rd	539	831	514	507	551
28-02	Little Rocky Run	Compton Rd	580	773	631	832	545
SULLY							
05-01	Difficult Run	Waples Mill & Fox Mill Rd	1128	555	464	981	472
05-05	Difficult Run	Vale Rd	411	993	766	1111	594
28-01	Little Rocky Run	Lee Hwy	982	1130	506	869	328
29-02	Big Rocky Run	Braddock Rd	849	754	511	421	348
29-03	Cub Run	Braddock Rd	1424	760	626	646	528
29-04	Cub Run	Compton Rd	1490	662	484	458	349
29-05	Flatlick Branch	Lee Jackson Rd	830	840	981	670	372
29-06	Flatlick Branch	Braddock Rd	1007	641	577	692	374
29-08	Cub Run	Braddock Rd	777	527	500	446	390
30-01	Bull Run	Lee Hwy	1020	527	419	698	339

TABLE 5**DISSOLVED OXYGEN
mg/l**

REPORT FROM: 01/01/2001 TO: 12/31/2001

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
HORSEPEN CREEK			
01-01	12	9.2	0
SUGARLAND RUN			
02-02	16	9.9	0
02-03	16	10.0	0
NICHOL RUN			
03-03	10	9.1	0
POND BRANCH			
04-01	16	9.7	0
04-02	16	9.7	0
04-03	16	10.0	0
DIFFICULT RUN			
05-01	13	9.7	0
05-05	12	9.8	0
05-09	11	9.6	0
05-11	12	10.2	0
05-12	12	9.1	0
05-13	12	9.8	0
05-15	16	10.1	0
05-18	12	9.8	0
05-19	12	9.8	0
BULLNECK RUN			
06-02	14	9.6	0
SCOTTS RUN			
07-01	14	10.4	0
DEAD RUN			
08-02	14	9.0	0
TURKEY RUN			
09-01	14	10.1	0

TABLE 5
DISSOLVED OXYGEN
mg/l

REPORT FROM: 01/01/2000 to 12/31/2000

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
PIMMIT RUN			
10-02	14	10.3	0
10-03	14	10.2	0
10-04	14	10.1	0
10-05	14	10.7	0
FOUR MILE RUN			
11-03	15	10.4	0
CAMERON RUN			
12-04	16	10.3	0
12-05	16	10.2	0
12-07	16	9.7	0
12-12	14	10.4	0
12-13	13	9.2	0
12-14	13	9.8	0
LITTLE HUNTING CREEK			
14-02	14	8.6	0
14-03	14	7.9	7.1
DOGUE CREEK			
15-06	14	8.3	0
ACCOTINK CREEK			
16-03	16	8.6	0
16-07	16	10.3	0
16-08	16	9.4	0
16-09	16	8.6	0
16-12	14	10.6	0
POHICK CREEK			
17-04	14	9.8	0
17-05	13	9.7	0
17-06	14	9.6	0
17-08	13	9.1	0
17-13	14	8.1	0

TABLE 5
DISSOLVED OXYGEN
Mg/l

REPORT FROM: 01/01/2000 to 12/31/2000

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4.0 mg/l
MILL BRANCH			
20-01	14	9.6	0
20-02	14	9.1	0
20-03	4	4.3	50
SANDY RUN			
22-03	14	9.5	0
22-04	14	10.1	0
WOLF RUN			
24-01	14	8.8	0
24-02	14	10.0	0
OLD MILL BRANCH			
25-04	10	8.9	0
POPES HEAD CREEK			
26-02	14	10.0	0
26-03	14	9.8	0
26-05	14	10.4	0
JOHNNY MOORE CREEK			
27-01	14	9.4	0
LITTLE ROCKY RUN			
28-01	12	7.7	8.3
28-02	14	10.5	0
CUB RUN			
29-02	13	10.0	0
29-03	14	10.0	0
29-04	13	10.8	0
29-05	14	8.4	0
29-06	12	7.9	0
29-08	13	9.2	0
BULL RUN			
30-01	14	9.7	0

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

REPORT FROM: 01/01/2000 TO: 12/31/2000

SAMPLE STATION	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHOROUS
HORSEPEN CREEK			
01-01	1.1	7.3	0.1
SUGARLAND RUN			
02-02	2.0	7.4	0.1
02-03	1.0	7.3	0.1
NICHOL RUN			
03-03	0.7	7.2	0.1
POND BRANCH			
04-01	0.7	7.0	0.1
04-02	1.4	6.9	0.1
04-03	1.5	6.9	0.1
DIFFICULT RUN			
05-01	0.8	6.9	0.1
05-05	0.8	6.8	0.1
05-09	0.8	6.9	0.1
05-11	1.1	7.0	0.1
05-12	0.8	6.9	0.1
05-13	0.9	7.0	0.1
05-15	1.6	6.8	0.1
05-18	0.6	7.1	0.1
05-19	0.9	7.1	0.1
BULLNECK RUN			
06-02	2.5	7.4	0.1
SCOTTS RUN			
07-01	1.0	7.7	0.1
DEAD RUN			
08-02	1.9	7.7	0.1
TURKEY RUN			
09-01	1.2	7.6	0.1

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

REPORT FROM: 01/01/2000 TO 12/31/2000

SAMPLE STATION	AVERAGE NITRATE NITROGEN	AVERAGE PH	AVERAGE TOTAL PHOSPHOROUS
PIMMIT RUN			
10-02	1.1	7.5	0.1
10-03	1.3	7.6	0.1
10-04	1.7	7.7	0.1
10-05	1.4	7.8	0.1
FOUR MILE RUN			
11-03	1.5	6.9	0.1
CAMERON RUN			
12-04	1.9	7.2	0.1
12-05	0.5	7.3	0.1
12-07	0.6	7.2	0.1
12-12	0.5	6.9	0.1
12-13	0.3	7.0	0.1
12-14	0.6	6.8	0.1
LITTLE HUNTING CREEK			
14-02	0.6	6.9	0.2
14-03	0.5	6.7	0.2
DOGUE CREEK			
15-06	0.2	6.8	0.1
ACCOTINK CREEK			
16-03	0.5	6.7	0.1
16-07	0.6	6.9	0.1
16-08	0.5	6.9	0.1
16-09	0.5	6.9	0.1
16-12	0.4	6.8	0.1
POHICK CREEK			
17-04	0.4	7.1	0.1
17-05	0.3	6.5	0.1
17-06	0.4	7.3	0.1
17-08	0.4	7.1	0.1
17-13	0.4	6.8	0.1

TABLE 6

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

REPORT FROM: 01/01/2000 TO 12/31/2000

<u>SAMPLE STATION</u>	<u>AVERAGE NITRATE NITROGEN</u>	<u>AVERAGE PH</u>	<u>AVERAGE TOTAL PHOSPHOROUS</u>
MILL BRANCH			
20-01	0.8	7.0	0.1
20-02	0.6	7.0	0.1
20-03	1.7	7.4	0.5
SANDY RUN			
22-03	0.3	6.9	0.1
22-04	0.3	7.0	0.1
WOLF RUN			
24-01	0.2	7.0	0.1
24-02	0.3	7.1	0.1
OLD MILL BRANCH			
25-04	6.8	7.4	0.1
POPES HEAD CREEK			
26-02	1.5	7.3	0.1
26-03	0.8	7.6	0.1
26-05	0.6	7.3	0.1
JOHNNY MOORE CREEK			
27-01	0.7	7.2	0.1
LITTLE ROCKY RUN			
28-01	0.2	7.0	0.1
28-02	0.4	7.7	0.1
CUB RUN			
29-02	0.6	7.2	0.1
29-03	0.7	7.5	0.1
29-04	0.6	7.7	0.1
29-05	1.1	6.9	0.1
29-06	1.0	7.2	0.1
29-08	0.4	7.4	0.1
BULL RUN			
30-01	0.3	7.4	0.1

Table 7
Geometric Mean of Nitrate Nitrogen
by Watershed

	Five Year Survey From	1996	To	2000	
Watershed	1996	1997	1998	1999	2000
01-Horsepen Creek	0.7	1.6	1.2	1.4	0.8
02-Sugarland Run	1.7	1.2	0.9	1.1	0.6
03-Nichol Run	1.1	0.7	1.0	0.4	0.6
04-Pond Branch	1.2	1.4	1.5	1.4	0.8
05-Difficult Run	1.2	1.2	1.1	0.9	0.7
06-Bullneck Run	2.2	2.1	1.7	2.2	2.0
07-Scotts Run	1.4	1.3	1.1	1.0	0.9
08-Dead Run	2.5	2.1	1.6	1.8	1.5
09-Turkey Run	1.2	1.2	1.1	1.1	1.0
10-Pimmit Run	1.5	1.5	1.2	1.1	1.0
11-Four Mile Run	1.6	1.4	1.3	0.9	1.3
12-Cameron Run	0.9	0.9	0.7	0.8	0.5
14-Little Hunting Creek	1.0	0.7	0.7	0.7	0.4
15-Douge Creek	0.2	0.2	0.2	0.2	0.1
16-Accotink Creek	0.9	0.7	0.5	0.6	0.5
17-Pohick Creek	0.4	0.3	0.3	0.3	0.3
20-Mill Branch	0.4	0.5	0.3	0.4	0.7
22-Sandy Run	0.4	0.3	0.2	0.3	0.2
24-Wolf Run	0.3	0.2	0.2	0.2	0.2
25-Old Mill Branch	1.9	3.0	3.5	3.7	5.4
26-Popes Head Creek	0.9	0.9	0.8	0.7	0.9
27-Johnny Moore Creek	0.9	0.7	0.4	0.5	0.6
28-Little Rocky Run	0.6	0.5	0.3	0.3	0.3
29-Cub Run	0.8	0.6	0.4	0.7	0.6
30-Bull Run	0.4	0.3	0.2	0.3	0.2

Table 8
Geometric Mean of pH
by Watershed

Watershed	Five Year Survey From		To		2000	
	1996	1997	1998	1999	2000	2000
01-Horsepen Creek	6.9	7.5	7.4	7.3	7.2	
02-Sugarland Run	7.2	7.4	7.5	7.5	7.4	
03-Nichol Rim	6.9	7.2	7.1	7.2	7.1	
04-Pond Branch	6.8	7.0	7.1	7.1	6.9	
05-Difficult Run	7.0	7.1	7.1	7.1	6.9	
06-Bullneck Run	7.1	7.2	7.3	7.3	7.3	
07-Scotts Run	7.3	7.5	7.5	7.7	7.7	
08-Dead Run	7.1	7.2	7.0	7.2	7.1	
09-Turkey Run	7.4	7.7	7.7	7.7	7.6	
10-Pimmit Run	7.3	7.5	7.6	7.6	7.7	
11-Four Mile Run	7.0	7.2	7.1	7.4	6.8	
12-Cameron Run	7.1	7.3	7.2	7.3	7.0	
14-Little Hunting Creek	6.7	6.9	6.8	6.9	6.8	
15-Douge Creek	6.8	6.8	6.9	6.9	6.8	
16-Accotink Creek	7.1	7.2	7.2	7.3	7.0	
17-Pohick Creek	7.0	7.1	7.1	7.2	6.9	
20-Mill Branch	7.1	7.2	7.2	7.3	7.1	
22-Sandy Run	7.1	7.5	7.1	7.2	6.9	
24-Wolf Run	7.0	7.5	7.2	7.2	7.0	
25-Old Mill Branch	7.2	7.5	7.6	7.5	7.4	
26-Popes Head Creek	7.1	7.4	7.4	7.4	7.4	
?7-Johnny Moore Creek	7.0	7.1	7.3	7.2	7.2	
28-Little Rocky Run	7.2	7.4	7.5	7.5	7.4	
29-Cub Run	7.2	7.5	7.5	7.6	7.3	
30-Bull Run	7.1	7.4	7.3	7.4	7.4	

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

Watershed	Five Year Survey From				
	1996	1997	1998	1999	2000
01-Horsepen Creek	0.10	0.11	0.11	0.11	0.13
02-Sugarland Run	0.10	0.10	0.11	0.10	0.12
03-Nichol Run	0.10	0.09	0.10	0.10	0.10
04-Pond Branch	0.10	0.10	0.10	0.10	0.11
05-Difficult Run	0.10	0.10	0.10	0.10	0.10
06-Bullneck Run	0.11	0.10	0.10	0.10	0.12
07-Scotts Run	0.10	0.09	0.10	0.10	0.10
08-Dead Run	0.11	0.10	0.10	0.11	0.10
09-Turkey Run	0.11	0.09	0.10	0.10	0.10
10-Pimmit Run	0.11	0.09	0.10	0.10	0.10
11-Four Mile Run	0.10	0.10	0.10	0.10	0.11
12-Cameron Run	0.11	0.10	0.11	0.10	0.10
14-Little Hunting Creek	0.12	0.11	0.12	0.16	0.18
15-Douge Creek	0.11	0.12	0.11	0.11	0.12
16-Accotink Creek	0.10	0.10	0.10	0.10	0.11
17-Pohick Creek	0.10	0.10	0.10	0.11	0.10
20-Mill Branch	0.11	0.13	0.14	0.12	0.11
22-Sandy Run	0.10	0.09	0.10	0.10	0.10
24-Wolf Run	0.10	0.10	0.10	0.10	0.10
25-Old Mill Branch	0.11	0.10	0.12	0.10	0.10
26-Popes Head Creek	0.10	0.10	0.10	0.10	0.11
27-Johnny Moore Creek	0.11	0.10	0.11	0.10	0.13
28-Little Rocky Run	0.11	0.10	0.10	0.10	0.10
29-Cub Run	0.11	0.10	0.11	0.10	0.11
30-Bull Run	0.11	0.10	0.10	0.10	0.11

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

Five Year Survey From 1996 TO 2000

		Temperature Averages (Geometric Mean)				
		1996	1997	1998	1999	2000
January		37	39	43	38	37
February		42	45	46	41	42
March		44	48	48	45	51
April		52	54	57	55	56
May		61	59	66	62	65
June		72	66	71	70	68
July		74	72	72	73	71
August		72	72	75	74	71
September		67	66	71	64	63
October		59	58	60	55	54
November		46	45	50	48	46
December		44	40	45	42	36

		High & Low Temperature				
		1996	1997	1998	1999	2000
January	High	60	60	59	59	46
	LOW	30	30	34	32	32
February	High	63	62	60	60	59
	LOW	32	32	38	34	32
March	High	58	61	72	65	63
	LOW	32	42	34	34	43
April	High	68	68	66	68	64
	Low	39	42	49	34	49
May	High	86	74	80	73	77
	LOW	50	50	55	48	55
June	High	88	82	81	83	78
	Low	60	56	59	61	59
July	High	90	82	84	83	80
	LOW	66	66	64	63	64
August	High	78	80	84	82	80
	Low	67	65	65	62	62
September	High	83	75	83	76	73
	LOW	54	58	61	47	59
October	High	68	80	67	64	65
	Low	48	44	51	41	48
November	High	65	60	62	62	56
	LOW	38	36	42	42	38
December	High	60	55	60	58	43
	LOW	38	35	32	35	32

TABLE 11

**CITY OF FAIRFAX STREAM SAMPLE RESULTS
ACCOTINK CREEK
FOR EACH SAMPLING STATION**

REPORT FROM 01/01/2000 TO: 12/31/2000

SAMPLE STATION	NUMBER OF FECAL COLIFORM SAMPLES			
	TOTAL SAMPLES COLLECTED	<200 per 100 ml	200-1000 per 100 ml	>1000 per 100 ml
16-20	17	3	7	7
16-21	17	4	10	3
16-22	17	2	11	4
16-23	17	0	9	8
16-24	17	0	9	8
16-25	17	1	11	5
16-26	17	2	10	5
16-27	14	0	9	5

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE DISSOLVED OXYGEN	PERCENTAGE OF SAMPLES LESS THAN 4 mg/l
16-20	15	8.5	6.7
16-21	15	8.3	0
16-22	15	10.5	0
16-23	15	9.6	0
16-24	15	9.8	0
16-25	14	9.6	0
16-26	15	9.8	0
16-27	12	8.8	0

SAMPLE STATION	TOTAL SAMPLES COLLECTED	AVERAGE NITRATE NITROGEN	AVERAGE pH	AVERAGE TOTAL PHOSPHOROUS
16-20	15	0.7	7.2	0.1
16-21	15	0.7	7.1	0.1
16-22	15	0.7	7.3	0.1
16-23	15	0.9	7.2	0.1
16-24	15	0.7	7.2	0.1
16-25	14	1.4	7.2	0.1
16-26	15	0.5	7.1	0.1
16-27	12	0.4	7.0	0.1

Table 12
 Log Average of Heavy Metals by Watershed
NOTE: PMCL = Primary Maximum Contaminate Level
 1989 - 1998

METAL (PMCL)	RESULTS(mg/1)
01- HORSEPEN CREEK:	
Arsenic (0.05mg/1)	0.002
Barium (1.00mg/1)	0.066
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
02- SUGARLAND 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)	0.001
Mercury (0.02 mg/1)	Below Detection Limits
Selenium (0.01 mg/1)	0.002
Silver (0.05 mg/1)	0.001
03- NICHOL RUN:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.015
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)	0.002
04- POND BRANCH:	
Arsenic (0.05mg/1)	0.001
Barium (1.00mg/1)	0.020
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

Table 12
 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 12
 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 12
 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 12
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 12
 Log Average of Heavy Metals by Watershed
 From 1989 TO 1998
NOTE: PMCL = Primary Maximum Contaminate Level

	METAL (PMCL)	RESULTS (mg/l)
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 12
 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