

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
WATER QUALITY AND POTENTIAL SOURCES OF  
CONTAMINANTS IN MORRISONS COVE, PENNSYLVANIA  
MARTINSBURG PROJECT**

The following pages contain data collected from 10 ground-water wells, 1 spring, and 4 streams near Martinsburg, Pennsylvania. Martinsburg is located in a valley known as Morrisons Cove. The sampling was conducted to assess the quality of water in areas of predominantly agricultural land use near the municipal supply wells used by the Martinsburg Municipal Authority. The water-quality data were used to help determine sources of contaminants in the streams and ground-water system.

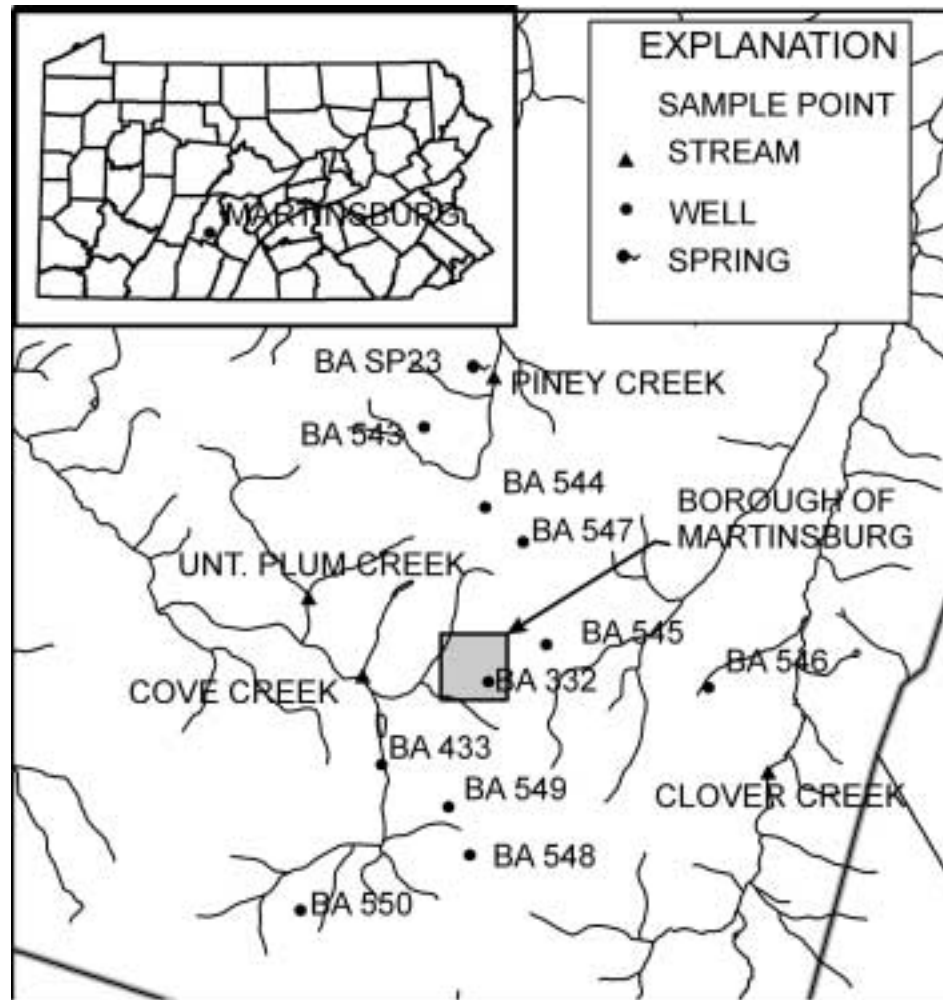


Figure 11.--Locations of sites sampled for the Martinsburg project.

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MARTINSBURG PROJECT--Continued**

**REMARKS.**--The remark code "E" indicates an estimated value based on low recovery for the analyte. The remark code "M" indicates that the constituent was identified, but not quantified (in the case of detection of the analyte, a result rounded to zero is replaced by an unquantified "M". Sampling condition code: 0.11 - site recently pumped; 8.00 - pumping.

**MISCELLANEOUS STATION ANALYSES**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY COLLECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	DIS-CHARGE (GPM)	DRAIN-AGE AREA (SQ. MI.)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	PH WATER WHOLE LAB (STAND-ARD UNITS)		
				402013078192701	BA	543	(LAT 40 20 13N LONG 078 19 27W)							
SEP 2002	09...	1028	80020	22.90	145	1473	4.0	--	--	0.2	--	7.5	7.5	
				401939078190401	BA	544	(LAT 40 19 38N LONG 078 19 03W)							
SEP 2002	09...	1200	1028	80020	43.30	125	1438	5.0	--	4.0	--	6.8	7.1	
				401842078184601	BA	545	(LAT 40 18 41N LONG 078 18 46W)							
SEP 2002	09...	1330	1028	80020	113.00	308	1405	--	--	9.2	--	7.3	7.4	
				401814078172801	BA	546	(LAT 40 18 13N LONG 078 17 28W)							
SEP 2002	10...	1140	1028	80020	70.20	180	1336	2.2	--	728	2.4	26	6.7	6.9
				401832078191901	BA	332	(LAT 40 18 32N LONG 078 19 19W)							
SEP 2002	10...	1315	1028	80020	30.00	100	1440	3.0	--	7.1	75	7.1	7.2	
				401808078202101	BA	433	(LAT 40 18 08N LONG 078 20 21W)							
SEP 2002	10...	1445	1028	80020	11.70	160	1345.00	--	--	1.7	--	6.8	7.0	
				401923078184801	BA	547	(LAT 40 19 23N LONG 078 18 48W)							
SEP 2002	11...	0815	1028	80020	138.20	>200	1474	3.3	--	718	8.2	76	7.4	7.6
				402028078155001	BA	SP23	(LAT 40 20 28N LONG 078 15 50W)							
SEP 2002	11...	0930	1028	80020	--	--	1334	E15	--	719	1.4	12	7.2	7.5
				401726078194501	BA	548	(LAT 40 17 26N LONG 078 19 45W)							
SEP 2002	11...	1030	1028	80020	44.00	185	1463	5.0	--	717	7.0	66	7.3	7.4
				401747078195101	BA	549	(LAT 40 17 46N LONG 078 19 51W)							
SEP 2002	11...	1120	1028	80020	32.45	420	1450	--	--	3.7	34	7.0	7.4	
				401718078211701	BA	550	(LAT 40 17 18N LONG 078 21 15W)							
SEP 2002	11...	1240	1028	80020	108.00	310	1440	--	--	4.4	--	6.9	7.2	
				01555884	Piney Creek near Martinsburg, PA		(LAT 40 20 27N LONG 078 18 46W)							
SEP 2002	11...	0900	1028	80020	--	--	1350	--	1.85	--	5.5	48	7.1	7.5
				01556040	Clover Creek at Clover Creek, PA		(LAT 40 17 37N LONG 078 17 05W)							
SEP 2002	11...	1330	1028	80020	--	--	1290	--	10.2	723	8.3	83	--	7.8

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MARTINSBURG PROJECT--Continued**

**MISCELLANEOUS STATION ANALYSES**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (µS/CM) (90095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
				402013078192701	BA	543	(LAT 40 20 13N LONG 078 19 27W)						
SEP 2002 09...	277	238	12.9	30.7	8.68	.89	5.63	96	--	10.3	.2	22.0	15.5
				401939078190401	BA	544	(LAT 40 19 38N LONG 078 19 03W)						
SEP 2002 09...	1080	1070	11.5	115	60.4	1.16	18.7	313	.05	59.3	<.1	8.8	54.8
				401842078184601	BA	545	(LAT 40 18 41N LONG 078 18 46W)						
SEP 2002 09...	469	462	11.2	53.9	26.1	1.09	4.66	189	E.02	14.2	<.1	8.7	11.9
				401814078172801	BA	546	(LAT 40 18 13N LONG 078 17 28W)						
SEP 2002 10...	873	833	20.2	109	49.6	2.18	6.09	421	.04	17.6	E.1	10.1	26.7
				401832078191901	BA	332	(LAT 40 18 32N LONG 078 19 19W)						
SEP 2002 10...	557	661	17.8	87.1	29.3	3.64	12.4	267	E.02	27.1	E.1	10.3	28.4
				401808078202101	BA	433	(LAT 40 18 08N LONG 078 20 21W)						
SEP 2002 10...	2440	2420	14.1	173	11.3	1.13	312	324	.16	515	E.1	8.9	83.7
				401923078184801	BA	547	(LAT 40 19 23N LONG 078 18 48W)						
SEP 2002 11...	499	483	12.4	49.8	29.1	2.37	5.15	170	E.03	12.8	<.1	9.7	11.6
				402028078155001	BA	SP23	(LAT 40 20 28N LONG 078 15 50W)						
SEP 2002 11...	519	509	11.1	87.9	11.3	.80	4.88	203	--	13.1	E.1	9.1	23.3
				401726078194501	BA	548	(LAT 40 17 26N LONG 078 19 45W)						
SEP 2002 11...	682	653	12.5	64.0	34.8	2.28	21.1	222	--	57.1	<.1	8.9	25.4
				401747078195101	BA	549	(LAT 40 17 46N LONG 078 19 51W)						
SEP 2002 11...	783	791	11.7	88.4	45.2	2.26	14.0	294	.03	40.5	.3	8.2	53.3
				401718078211701	BA	550	(LAT 40 17 18N LONG 078 21 15W)						
SEP 2002 11...	960	949	11.4	99.9	57.1	6.61	16.9	349	--	57.1	.1	8.8	64.5
				01555884	Piney Creek near Martinsburg, PA		(LAT 40 20 27N LONG 078 18 46W)						
SEP 2002 11...	523	503	11.9	86.8	11.3	1.05	5.46	205	E.02	12.6	E.1	9.2	23.8
				01556040	Clover Creek at Clover Creek, PA		(LAT 40 17 37N LONG 078 17 05W)						
SEP 2002 11...	443	445	15.7	60.2	21.1	1.21	3.81	199	<.03	10.5	E.1	8.4	14.5

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**MISCELLANEOUS STATION ANALYSES**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	STRON- TIUM, DIS- SOLVED (µG/L AS SR) (01080)	1,4-DI- CHLORO- BENZENE DISSOLV (µG/L) (34572)	1METHYL NAPH- THALENE WATER, FLTERD REC (µG/L) (62054)	26DIMET NAPH- THALENE WATER, FLTERD REC (µG/L) (62055)	2METHYL NAPH- THALENE WATER, FLTERD REC (µG/L) (62056)
			402013078192701	BA	543	(LAT 40 20 13N LONG 078 19 27W)							
SEP 2002 09...	.04	E.08	.11	<.008	<.06	E.02	20	57	180	--	--	--	--
			401939078190401	BA	544	(LAT 40 19 38N LONG 078 19 03W)							
SEP 2002 09...	<.04	.21	36.9	<.008	<.06	<.02	E10	18	56.9	<.5	<.5	<.5	<.5
			401842078184601	BA	545	(LAT 40 18 41N LONG 078 18 46W)							
SEP 2002 09...	<.04	E.06	8.92	<.008	<.06	<.02	M	<10	37.3	<.5	<.5	<.5	<.5
			401814078172801	BA	546	(LAT 40 18 13N LONG 078 17 28W)							
SEP 2002 10...	<.04	E.06	5.46	E.004	<.06	<.02	20	<10	82.7	<.5	<.5	<.5	<.5
			401832078191901	BA	332	(LAT 40 18 32N LONG 078 19 19W)							
SEP 2002 10...	<.04	<.10	9.16	<.008	<.06	<.02	20	20	161	<.5	<.5	<.5	<.5
			401808078202101	BA	433	(LAT 40 18 08N LONG 078 20 21W)							
SEP 2002 10...	<.04	.29	7.69	.029	E.05	.05	20	32	1020	--	--	--	--
			401923078184801	BA	547	(LAT 40 19 23N LONG 078 18 48W)							
SEP 2002 11...	<.04	E.07	16.8	<.008	<.06	<.02	E10	<10	31.3	<.5	<.5	<.5	<.5
			402028078155001	BA	SP23	(LAT 40 20 28N LONG 078 15 50W)							
SEP 2002 11...	<.04	<.10	8.81	<.008	<.06	E.01	20	<10	447	--	--	--	--
			401726078194501	BA	548	(LAT 40 17 26N LONG 078 19 45W)							
SEP 2002 11...	<.04	E.07	7.88	<.008	<.06	<.02	20	<10	58.3	--	--	--	--
			401747078195101	BA	549	(LAT 40 17 46N LONG 078 19 51W)							
SEP 2002 11...	<.04	E.07	10.5	<.008	<.06	<.02	10	<10	51.8	<.5	<.5	<.5	<.5
			401718078211701	BA	550	(LAT 40 17 18N LONG 078 21 15W)							
SEP 2002 11...	.52	.73	5.73	<.008	<.06	<.02	E10	E8	501	--	--	--	--
			01555884	Piney Creek near Martinsburg, PA		(LAT 40 20 27N LONG 078 18 46W)							
SEP 2002 11...	.20	.34	7.92	.096	.21	.19	20	16	448	<.5	<.5	<.5	<.5
			01556040	Clover Creek at Clover Creek, PA		(LAT 40 17 37N LONG 078 17 05W)							
SEP 2002 11...	<.04	.13	5.35	.016	E.03	E.01	E10	<10	119	<.5	<.5	<.5	<.5



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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BETA-SITOS-TEROL, WATER, FLTRD REC (µG/L) (62068)	BISPHE-NOL A, WATER, FLTRD REC (µG/L) (62069)	BISPHENOL A-D3 SURRGTE S2033/8033 WAT FLT PERCENT (99583)	BRO-MACIL, WATER, DISS, REC (µG/L) (04029)	BROMO-FORM DISSOLV (µG/L) (34288)	CAF-FEINE, WATER, FLTRD REC (µG/L) (50305)	CAFFE-INE-C13 SURRGTE S2033/8033 WAT FLT PERCENT (99584)	CAMPHOR WATER, FLTRD REC (µG/L) (62070)	CAR-BARYL WATER, FLTRD 0.7 µ REC (µG/L) (82680)	CARBA-ZOLE, WATER, FLTRD REC (µG/L) (62071)	CHLOR-PYRIFOS DIS-SOLVED REC (µG/L) (38933)	CHOLESTEROL, WATER, FLTRD REC (µG/L) (62072)	COT-ININE, WATER, FLTRD REC (µG/L) (62005)
			402013078192701	BA	543	(LAT 40 20 13N LONG 078 19 27W)							
SEP 2002 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401939078190401	BA	544	(LAT 40 19 38N LONG 078 19 03W)							
SEP 2002 09...	<2	<1	45.3	<.5	<.5	<.5	74.3	<.5	<1	<.5	<.5	<2	<1
			401842078184601	BA	545	(LAT 40 18 41N LONG 078 18 46W)							
SEP 2002 09...	<2	<1	31.2	<.5	<.5	<.5	79.1	<.5	<1	<.5	<.5	<2	<1
			401814078172801	BA	546	(LAT 40 18 13N LONG 078 17 28W)							
SEP 2002 10...	<2	<1	.0	<.5	<.5	<.5	78.1	<.5	<1	<.5	<.5	<2	<1
			401832078191901	BA	332	(LAT 40 18 32N LONG 078 19 19W)							
SEP 2002 10...	<2	<1	.0	<.5	E3.8	<.5	65.5	<.5	<1	<.5	<.5	<2	<1
			401808078202101	BA	433	(LAT 40 18 08N LONG 078 20 21W)							
SEP 2002 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401923078184801	BA	547	(LAT 40 19 23N LONG 078 18 48W)							
SEP 2002 11...	<2	<1	4.7	<.5	<.5	<.5	78.7	<.5	<1	<.5	<.5	<2	<1
			402028078155001	BA	SP23	(LAT 40 20 28N LONG 078 15 50W)							
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401726078194501	BA	548	(LAT 40 17 26N LONG 078 19 45W)							
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401747078195101	BA	549	(LAT 40 17 46N LONG 078 19 51W)							
SEP 2002 11...	<2	<1	39.1	<.5	<.5	<.5	91.5	<.5	<1	<.5	<.5	<2	<1
			401718078211701	BA	550	(LAT 40 17 18N LONG 078 21 15W)							
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
			01555884	Piney Creek near Martinsburg, PA (LAT 40 20 27N LONG 078 18 46W)									
SEP 2002 11...	<2	<1	7.6	<.5	<.5	E.1	78.6	<.5	<1	<.5	<.5	<2	<1
			01556040	Clover Creek at Clover Creek, PA (LAT 40 17 37N LONG 078 17 05W)									
SEP 2002 11...	<2	<1	4.2	<.5	<.5	<.5	77.2	<.5	<1	<.5	<.5	<2	<1

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Date	DCFLBI- PHENYL, SURREGTE S2033/ 8033 WAT FLT PERCENT (99585)	DI- AZINON, DIS- SOLVED (µG/L) (39572)	D-LIMO- NENE, WATER, FLTERD REC (µG/L) (62073)	FLUOR- ANTHENE DISSOLV (µG/L) (34377)	FLUORO- ANTHENE D10 SUR S2033/ 8033 WAT FLT PERCENT (99586)	HHMCP- BENZO- PYRAN, WATER, FLTERD REC (µG/L) (62075)	INDOLE, WATER, FLTERD REC (µG/L) (62076)	ISOBOR- NEOL, WATER, FLTERD REC (µG/L) (62077)	ISO- PHORONE DISSOLV (µG/L) (34409)	ISO- PROPYL BENZENE WATER, FLTERD REC (µG/L) (62078)	ISO- QUIN- OLINE, WATER, FLTERD REC (µG/L) (62079)	MENTHOL WATER, FLTERD REC (µG/L) (62080)	METAL- AXYL WATER FLTRD REC (µG/L) (50359)
					402013078192701	BA	543	(LAT 40 20 13N	LONG 078 19 27W)				
SEP 2002 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401939078190401	BA	544	(LAT 40 19 38N	LONG 078 19 03W)				
SEP 2002 09...	58.9	<.5	<.5	<.5	73.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
					401842078184601	BA	545	(LAT 40 18 41N	LONG 078 18 46W)				
SEP 2002 09...	60.8	<.5	<.5	<.5	69.9	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
					401814078172801	BA	546	(LAT 40 18 13N	LONG 078 17 28W)				
SEP 2002 10...	76.7	<.5	<.5	<.5	71.8	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
					401832078191901	BA	332	(LAT 40 18 32N	LONG 078 19 19W)				
SEP 2002 10...	75.3	<.5	<.5	<.5	37.2	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
					401808078202101	BA	433	(LAT 40 18 08N	LONG 078 20 21W)				
SEP 2002 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401923078184801	BA	547	(LAT 40 19 23N	LONG 078 18 48W)				
SEP 2002 11...	79.5	<.5	<.5	<.5	68.7	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
					402028078155001	BA	SP23	(LAT 40 20 28N	LONG 078 15 50W)				
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401726078194501	BA	548	(LAT 40 17 26N	LONG 078 19 45W)				
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401747078195101	BA	549	(LAT 40 17 46N	LONG 078 19 51W)				
SEP 2002 11...	82.9	<.5	<.5	<.5	78.7	<.5	<.5	<.5	E.2	<.5	<.5	<.5	<.5
					401718078211701	BA	550	(LAT 40 17 18N	LONG 078 21 15W)				
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
					01555884	Piney Creek near Martinsburg, PA (LAT 40 20 27N LONG 078 18 46W)							
SEP 2002 11...	82.3	<.5	<.5	<.5	72.0	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
					01556040	Clover Creek at Clover Creek, PA (LAT 40 17 37N LONG 078 17 05W)							
SEP 2002 11...	84.8	<.5	<.5	<.5	71.2	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5

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Date	METHYL SALICY- LATE, WATER, FLTRD REC (µG/L) (62081)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	DEET, WATER, FLTRD REC (µG/L) (62082)	NAPHTH- ALENE DISSOLV (µG/L) (34443)	NONYL- PHENOL, DIETHOX WATER, FLTRD REC (µG/L) (62083)	DI- ETHOXY- OCTYL- PHENOL WAT FLT REC (µG/L) (61705)	MONO- ETHOXY- OCTYL- PHENOL WAT FLT REC (µG/L) (61706)	PARA- CRESOL, WATER, FLTRD REC (µG/L) (62084)	PARA- NONYL- PHENOL, WATER, FLTRD REC (µG/L) (62085)	PENTA- CHLORO- PHENOL DISSOLV (µG/L) (34459)	PHENAN - THREN EDISSOL V(µG/L) (34462)	PHENOL WATER FILTRD (µG/L) (34466)	PRO- METON, WATER, DISS, REC (µG/L) (04037)
					402013078192701	BA	543	(LAT 40 20 13N LONG 078 19 27W)					
SEP 2002 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401939078190401	BA	544	(LAT 40 19 38N LONG 078 19 03W)					
SEP 2002 09...	<.5	<.5	M	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					401842078184601	BA	545	(LAT 40 18 41N LONG 078 18 46W)					
SEP 2002 09...	<.5	M	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					401814078172801	BA	546	(LAT 40 18 13N LONG 078 17 28W)					
SEP 2002 10...	<.5	M	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					401832078191901	BA	332	(LAT 40 18 32N LONG 078 19 19W)					
SEP 2002 10...	<.5	M	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					401808078202101	BA	433	(LAT 40 18 08N LONG 078 20 21W)					
SEP 2002 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401923078184801	BA	547	(LAT 40 19 23N LONG 078 18 48W)					
SEP 2002 11...	<.5	<.5	M	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					402028078155001	BA	SP23	(LAT 40 20 28N LONG 078 15 50W)					
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401726078194501	BA	548	(LAT 40 17 26N LONG 078 19 45W)					
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
					401747078195101	BA	549	(LAT 40 17 46N LONG 078 19 51W)					
SEP 2002 11...	<.5	E.2	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					401718078211701	BA	550	(LAT 40 17 18N LONG 078 21 15W)					
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
					01555884	Piney Creek near Martinsburg, PA		(LAT 40 20 27N LONG 078 18 46W)					
SEP 2002 11...	<.5	<.5	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5
					01556040	Clover Creek at Clover Creek, PA		(LAT 40 17 37N LONG 078 17 05W)					
SEP 2002 11...	<.5	<.5	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5



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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PYRENE DISSOLV (µG/L) (34470)	STIGMA- STANOL, WATER, FLTRD (62086)	TETRA- CHLORO- ETHY- LENE DISSOLV (µG/L) (34476)	FYROL CEF, WATER, FLTRD (µG/L) (62087)	FYROL PCF, WATER, FLTRD (µG/L) (62088)	TRIBUTL PHOS- PHATE, WATER, FLTRD (µG/L) (62089)	TRICLO- SAN, WATER, FLTRD (µG/L) (62090)	TRI- ETHYL CITRATE WATER, FLTRD (µG/L) (62091)	TRIPHNL PHOS- PHATE, WATER, FLTRD (µG/L) (62092)	TRIS(2- BUTOXE- PHOS- PHATE, WATER, FLTRD (µG/L) (62093)	DICHLOR VOS, WATER, FLTRD (µG/L) (38775)	N15/N14 NO3 FRAC WATER FLTRD 0.45 µ PER MIL (82690)	SAMPLE WEIGHT, WASTE- WATER METHOD, WAT FLT (ML) (99587)
			402013078192701 BA 543 (LAT 40 20 13N LONG 078 19 27W)										
SEP 2002 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401939078190401 BA 544 (LAT 40 19 38N LONG 078 19 03W)										
SEP 2002 09...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	<.5	<.5	<1.00	9.40	942
			401842078184601 BA 545 (LAT 40 18 41N LONG 078 18 46W)										
SEP 2002 09...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	<.5	<.5	<1.00	4.10	901
			401814078172801 BA 546 (LAT 40 18 13N LONG 078 17 28W)										
SEP 2002 10...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	<.5	<.5	<1.00	8.80	883
			401832078191901 BA 332 (LAT 40 18 32N LONG 078 19 19W)										
SEP 2002 10...	<.5	<2	<.5	M	<.5	<.5	<1	<.5	<.5	<.5	<1.00	6.00	947
			401808078202101 BA 433 (LAT 40 18 08N LONG 078 20 21W)										
SEP 2002 10...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401923078184801 BA 547 (LAT 40 19 23N LONG 078 18 48W)										
SEP 2002 11...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	<.5	<.5	<1.00	7.40	880
			402028078155001 BA SP23 (LAT 40 20 28N LONG 078 15 50W)										
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401726078194501 BA 548 (LAT 40 17 26N LONG 078 19 45W)										
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
			401747078195101 BA 549 (LAT 40 17 46N LONG 078 19 51W)										
SEP 2002 11...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	<.5	E.2	<1.00	6.40	813
			401718078211701 BA 550 (LAT 40 17 18N LONG 078 21 15W)										
SEP 2002 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
			01555884 Piney Creek near Martinsburg, PA (LAT 40 20 27N LONG 078 18 46W)										
SEP 2002 11...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	M	<.5	<1.00	8.30	913
			01556040 Clover Creek at Clover Creek, PA (LAT 40 17 37N LONG 078 17 05W)										
SEP 2002 11...	<.5	<2	<.5	<.5	<.5	<.5	<1	<.5	<.5	<.5	<1.00	5.20	836

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	Date	SAMPLER TYPE (CODE) (84164)	SAM- PLING CONDI- TION (72006)
402013078192701 BA 543	(LAT 40 20 13N LONG 078 19 27W)		
	SEP 2002		
	09...	4040	.11
401939078190401 BA 544	(LAT 40 19 38N LONG 078 19 03W)		
	SEP 2002		
	09...	4040	.11
401842078184601 BA 545	(LAT 40 18 41N LONG 078 18 46W)		
	SEP 2002		
	09...	4040	8.00
401814078172801 BA 546	(LAT 40 18 13N LONG 078 17 28W)		
	SEP 2002		
	10...	4040	8.00
401832078191901 BA 332	(LAT 40 18 32N LONG 078 19 19W)		
	SEP 2002		
	10...	4040	8.00
401808078202101 BA 433	(LAT 40 18 08N LONG 078 20 21W)		
	SEP 2002		
	10...	4040	8.00
401923078184801 BA 547	(LAT 40 19 23N LONG 078 18 48W)		
	SEP 2002		
	11...	4040	.11
402028078155001 BA SP23	(LAT 40 20 28N LONG 078 15 50W)		
	SEP 2002		
	11...	--	--
401726078194501 BA 548	(LAT 40 17 26N LONG 078 19 45W)		
	SEP 2002		
	11...	4040	.11
401747078195101 BA 549	(LAT 40 17 46N LONG 078 19 51W)		
	SEP 2002		
	11...	4040	.11
401718078211701 BA 550	(LAT 40 17 18N LONG 078 21 15W)		
	SEP 2002		
	11...	4040	.11
01555884 Piney Creek near Martinsburg, PA	(LAT 40 20 27N LONG 078 18 46W)		
	SEP 2002		
	11...	8010	--
01556040 Clover Creek at Clover Creek, PA	(LAT 40 17 37N LONG 078 17 05W)		
	SEP 2002		
	11...	8010	--

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY COL-LECTING SAMPLE (CODE NUMBER)	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	ELEV. OF LAND SURFACE (FT. ABOVE NGVD)	DIS-CHARGE (GPM)	DRAIN-AGE AREA (SQ. MI.)	BARO-METRIC PRES-SURE (MM HG)	OXYGEN, (MG/L)	PH (STAND-ARD UNITS)	PH (STAND-ARD UNITS)	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM)		
		(00027)	(00028)	(72000)	(50042)	(81024)	(00025)	(00300)	(00301)	(00400)	(00403)	(00095)	(90095)	
015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)														
SEP 2002	1420	1028	80020	1351	1150	1.65	722	6.0	65	7.6	7.8	198	184	
01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)														
SEP 2002	1500	1028	80020	1330	E900	5.02	725	3.0	32	7.5	7.7	1310	1320	
015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)														
SEP 2002	11...	19.9	21.1	6.56	3.96	3.52	68	<.03	4.81	E.1	7.9	11.8	.15	.62
01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)														
SEP 2002	11...	20.5	77.2	28.2	10.8	145	269	.03	230	.1	10.5	44.6	.12	.97
015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)														
SEP 2002	11...	.80	.054	.16	.13	20	138	99.3	<.5	<.5	<.5	<.5	<2	<1
01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)														
SEP 2002	11...	1.65	.147	1.01	.98	220	22	381	E.1	<.5	<.5	<.5	<2	<1
015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)														
SEP 2002	11...	<5	<1	<1	<1	<2	<.5	M	<.5	<.5	<.5	<.5	<2	M
01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)														
SEP 2002	11...	<5	<1	<1	<1	<2	<.5	1.0	<.5	M	<.5	E.1	<2	<1

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BISPHENOL A-D3 SURRGTE S2033/8033 WAT FLT PERCENT (99583)	BRO-MACIL, WATER, DISS, (04029)	BROMO-FORM DISSOLV (34288)	CAF-FEINE, WATER FLTRD (50305)	CAFFE-INE-C13 SURRGTE S2033/8033 WAT FLT PERCENT (99584)	CAMPHOR WATER, FLTRD (62070)	CAR-BARYL WATER, FLTRD 0.7 µ (82680)	CARBA-ZOLE, WATER, FLTRD (62071)	CHLOR-PYRIFOS, DIS- SOLVED (38933)	CHOL-TEROL, WATER, FLTRD (62072)	COT-ININE, WATER, FLTRD (62005)	DCFLBI-PHENYL, SURRGTE S2033/8033 WAT FLT PERCENT (99585)	DI-AZINON, DIS- SOLVED (39572)	
	015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)													
SEP 2002 11...	70.7	<.5	<.5	E.1	91.8	<.5	<1	<.5	<.5	<2	<1	85.6	<.5	
	01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)													
SEP 2002 11...	76.4	<.5	<.5	1.0	92.0	M	<1	<.5	<.5	M	M	90.9	<.5	
Date	D-LIMONENE, WATER, FLTRD REC (62073)	FLUOR-ANTHENE DISSOLV (34377)	FLUORO-ANTHENE S2033/8033 WAT FLT PERCENT (99586)	HHH MCP-BENZO-PYRAN, WATER, FLTRD REC (62075)	INDOLE, WATER, FLTRD REC (62076)	ISOBOR-NEOL, WATER, FLTRD REC (62077)	ISO-PHORONE DISSOLV (34409)	ISO-PROPYL BENZENE, WATER, FLTRD REC (62078)	ISO-QUIN-OLINE, WATER, FLTRD REC (62079)	MENTHOL, WATER, FLTRD REC (62080)	METAL-AXYL, WATER, FLTRD REC (50359)	METHYL-SALICYLATE, WATER, FLTRD REC (62081)	METO-LACHLOR, WATER, DISSOLV (39415)	
	015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)													
SEP 2002 11...	<.5	<.5	78.9	M	<.5	<.5	<.5	<.5	<.5	E.1	<.5	<.5	<.5	
	01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)													
SEP 2002 11...	<.5	<.5	75.5	E.2	<.5	<.5	<.5	<.5	<.5	E.2	<.5	<.5	M	
Date	DEET, WATER, FLTRD REC (62082)	NAPHTH-ALENE DISSOLV (34443)	NONYL-PHENOL, DIETHOX WATER, FLTRD REC (62083)	DI-ETHOXY-OCTYL-PHENOL, WAT FLT REC (61705)	MONO-ETHOXY-OCTYL-PHENOL, WAT FLT REC (61706)	PARA-CRESOL, WATER, FLTRD REC (62084)	PARA-NONYL-PHENOL, WATER, FLTRD REC (62085)	PENTA-CHLORO-PHENOL, DISSOLV (34459)	PHENAN-THREN V(µG/L) (34462)	PHENOL, WATER, FLTRD REC (34466)	PRO-METON, WATER, DISS, REC (04037)	PYRENE, DISSOLV (34470)	STIGMA-STANOL, WATER, FLTRD REC (62086)	
	015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)													
SEP 2002 11...	<.5	<.5	<5	<1	<1	<1	<5	<2	<.5	<.5	<.5	<.5	<2	
	01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)													
SEP 2002 11...	E.1	<.5	E2	<1	<1	<1	<5	<2	<.5	<.5	<.5	<.5	<2	
Date	TETRA-CHLORO-ETHY-LENE DISSOLV (34476)	FYROL-CEF, WATER, FLTRD REC (62087)	FYROL-PCF, WATER, FLTRD REC (62088)	TRIBUTL PHOS-PHATE, WATER, FLTRD REC (62089)	TRICLO-SAN, WATER, FLTRD REC (62090)	TRI-ETHYL CITRATE, WATER, FLTRD REC (62091)	TRIPHNL PHOS-PHATE, WATER, FLTRD REC (62092)	TRIS(2-BUTOXE)_PHOS-PHATE, WATER, FLTRD REC (62093)	DICHLOR VOS, WATER, FLTRD REC (38775)	N15/N14 NO3 FRAC, WATER, FLTRD 0.45 µ PER MIL (82690)	SAMPLE WEIGHT, WASTE-WATER METHOD, WAT FLT (99587)	SAMPLER TYPE (CODE) (84164)	SAM-PLING CONDI-TION (72006)	
	015558069 Unnamed Tributary to Plum Run near Martinsburg, PA (LAT 40 19 16N LONG 078 20 41W)													
SEP 2002 11...	<.5	<.5	<.5	<.5	M	<.5	<.5	<.5	<1.00	6.60	812	30	9	
	01555806 Cove Creek at Martinsburg, PA (LAT 40 18 42N LONG 078 20 21W)													
SEP 2002 11...	<.5	E.2	E.3	E.1	M	E.1	M	E.2	<1.00	11.30	814	30	9	