

Sta. No.	Station Name	Item	Elevation	Miles to Mouth	LAB																			
					pH	Total Acidity	Alkalinity	Total Iron (Fe)	Sulfate	Ferrous Iron	Manganese	Aluminum	Calcium	Magnesium	Total Hardness	Conductivity	Coliform-E	pH (H ₂ SO ₄)	Field Temp (F.)	Time	fecal - strep	ppm Dissolved Oxygen		
10	BH 14 EGRESS		1108	15.6	6.3	0	312	30	700	0	1	.08	52	18	202	1000	0	6.3	54.0		N			
11	BH 14 CONFLU		1103	15.3	6.7	0	312	40	620	0	0	.148	44	11	154	800	11,000	5.5	59.0		N			
12	BH 15 EGRESS-C		1130	16.2	6.6	0	312	15	460	0	1.66	.11	42.4	12.5	156	750	0	6.2	53.5		N			
13	BH 15 EGRESS-W		1128	16.2	6.5	0	288	14	540	0	1	.12	45.6	19	190	800	3.6	6.5	53.0		N			
14	BH 15 CONFLU		1104	15.8	6.8	0	270	15	480	0	.2	.12	44	15.5	172	725	43	6.2	56.0		N			
15	NUMINE SHAFT		1118	16.6	6.5	0	316	27.5	580	0	.25	.15	48	8.5	154	810	4600	6.3	60.0		N			
16	HUSKINS B/03066		1118	12.7	3.0	220	0	20	750	3.5	2.5	.32	36	22.5	180	800	23	3.8	62.4		N			
17	HUSKINS B/T670		1193	14.4	6.3	0	14	1.7	42	0	0	.18	8	11	66	97	11,000	5.5	66.0		N			
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WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 1 Allegheny River North

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO ₄	ppd SO ₄	ppm HDN	ppd HDN
09-21-70		6.9			38		.1		44		76	
10-19-70		6.6			20		.5		42		52	
11-16-70		7.1			20		.7		38		80	
12-14-70		6.7			24		4.25		38		106*	
01-12-71		6.2*			0		3.5		48		68	
02-08-71		6.5			20		.6		90*		88	
03-08-71		6.7			16		.55		42		70	
04-05-71		6.8			8		12	*	40		62	
05-03-71		7.0			26		1		32		62	
06-01-71		7.0			32		1.8		42		80	
06-25-71		6.5			26		1.9		70		96	
07-26-71		6.8			32		4		60		92	
08-24-71		6.8			40*		.5		75		90	
Average		6.7			23		2.42		51		79	

Sta 2 Allegheny River South

09-21-70		7.0			34		.5		42		70	
10-19-70		6.7			10		.5		48		56	
11-16-70		7.1			12		2		42		80	
12-14-70		6.8			6		1.4		32		72	
01-12-71		6.5*			16		20	*	42		72	
02-08-71		6.6			20		.8		95*		94	
03-08-71		6.8			20		.1		40		60	
04-05-71		7.0			14		3.4		44		60	
05-03-71		7.2			24		1		24		66	
06-01-71		7.1			24		.9		48		86	
06-25-71		6.7			24		.7		80		92	
07-26-71		7.1			30		2.4		60		92	
08-24-71		7.1			46*		1.1		60		102*	
Average		6.9			22		2.60		51		77	

*Greatest Pollution Reading

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 3 Allegheny River Confluence

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	12470	6.4			0	0	1.7	255	230*	34477	146	21885
10-19-70	23320	6.6			4	1121	.3	84	145	40643	106	29712
11-16-70	64140	6.6			4	3084	1.4	1079	95	73245	120	92520
12-14-70	136790*	6.5			4	6576	.8	1315	54	88786*	82	134824*
01-12-71	39470	6.5			6	2846	1.3	617	95	45068	96	45542
02-08-71	36330	5.7*			8	3494	55	24019*	120	52404	125	54588
03-08-71	100470	6.6			10	12076*	.3	362	70	84532	82	99023
04-05-71	37230	7.1			16	7160	1.1	492	100	44750	104	46540
05-03-71	12560	7.1			14	2114	1.4	211	130	19630	150	22650
06-01-71	8520	7.0			38*	3891	2	205	155	15872	156	15974
06-25-71	4490	6.4			24	1296	4.7	254	70	3780	80	4320
07-26-71	4930	6.6			28	1660	35	2076	75	4448	100	5930
08-24-71	5380	7.1			36	2329	.1	6	70	4529	88	5694
10-07-71	30334	6.6			12	4375	.5	182	100	36460	150	54690
11-09-71	20015	6.8			28	6737	.3	72	155	37293	190*	45714
12-23-71	Frozen	7.4			20		2.9		95		100	
Average	33528	6.7			16	3672	6.8	1952	110	36620	117	42475

Sta 4 Infra Run 66

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	11470	6.0*	2*	276*	0	0	1.7	234	230	31717	124	17100
10-19-70	21960	6.7			6	1584	.8	211	170	44880	106	27984
11-16-70	60060	6.8			10	7219	2.9	2094*	38	27432	100	72190
12-14-70	127900*	6.7			10	15374*	1.1	1691	52	79945*	74	113768*
01-12-71	37040	6.5			14	6233	.9	401	95	42294	94	41849
02-08-71	34110	6.4			10	4100	2.3	943	100	41000	86	35260
03-08-71	93960	6.8			0	0	.25	282	24	27106	72	81317
04-05-71	34940	7.2			20	8400	.7	294	100	42000	98	41160
05-03-71	11910	7.5			26	3723	.9	129	135	19332	130	18616
06-01-71	8120	7.7			38	3709	.6	59	160	15616	130	12688
06-25-71	4290	6.8			44	2270	1.4	72	250*	12900	190	9804
07-26-71	4680	7.1			50	2815	4.75*	267	175	9853	230*	12949
08-24-71	5100	7.1			64*	3923	.8	49	235	14406	176	10789
Average	42734	6.9	.2	21	22	4565	1.47	517	136	31422	124	38113

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 5 Ultra Run 66

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	11250	6.2	4*	541*	0	0	1.2	162	130	17576	122	16494
10-19-70	21490	6.7			6	1550	1	258	160	41328	102	26347
11-16-70	58670	6.8			10	7052	2.4*	1692	32	22566	100	70520
12-14-70	124860*	6.7			8	12006	2	3002*	52	78042*	66	99053*
01-12-71	36210	6.6			10	4352	1.7	740	95	41344	94	40909
02-08-71	33350	4.4*			12	4811	1.5	601	95	38086	86	34477
03-08-71	91750	6.8			16	17645*	.6	662	70	77196	74	81607
04-05-71	34160	7.3			14	5748	.9	370	95	39007	96	39418
05-03-71	11690	7.5			26	3653	.7	98	155	21778	145	20373
06-01-71	7980	7.6			36	3452	.1	10	135	12947	130	12467
06-25-71	4220	7.1			50	2535	.7	35	230*	11661	185	9380
07-26-71	4590	7.5			54	2981	1.2	66	140	7728	170	9384
08-24-71	5000	7.3			60*	3606	.1	6	190	11419	160	9616
10-07-71	20648	6.9			28	6950	.3	74	110	27302	150	37230
11-09-71	15800	6.8			44	8356	.1	19	145	27536	270*	51273
Average	32111	6.8	.3	30	25	8246	1.0	520	122	31701	130	37237

Sta 6 Infra Mill

09-21-70	10500	6.3*	2*	252*	0	0	2.3*	290	220*	27764	128	16154
10-19-70	20300	6.7			14	3416	.9	220	160	39040	100	24400
11-16-70	55600	6.9			10	6683	2.3*	1537	38	25395	90	60147
12-14-70	118600*	6.8			8	11405*	1.1	1568*	38	54173	62	88387*
01-12-71	34200	6.6			16	6578	1.1	452	95	39055	94	38643
02-08-71	31500	6.5			4	1514	1.8	682	80	30288	80	30288
03-08-71	87000	6.9			10	10457	.6	627	60	62742*	80	83656
04-05-71	32300	7.3			18	6988	.3	116	80	31056	98	38044
05-03-71	10900	7.9			32	4192	.7	92	135	17685	126	16506
06-01-71	7400	7.6			30	2667	.1	9	155	13780	128	11379
06-25-71	3900	7.0			52	2439	.7	33	200	9380	155	7270
07-26-71	4300	7.6			66*	3412	1.2	62	110	5687	156	8065
08-24-71	4700	7.5			56	3164	.1	6	195	11018	156	8814
10-07-71	17730	6.9			24	5114	.3	64	90	19179	110	23441
11-09-71	10414	7.0			40	5008	.1	13	145	18154	240*	30048
12-23-71	30600	7.4			20	7356	1.1	405	48	17654	116	42665
Average	29997	7.1	.1	16	25	5025	.9	386	116	26378	120	32994

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta 7 Infra Spra

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	8200	6.5*			10	986	1.8*	177	180	17748	96	9466
10-19-70	15700	6.6			6	1130	1	19	120	22644	78	14719
11-16-70	43200	7.0			10	5193	1.1	571	24	12463	74	38428
12-14-70	91900*	6.7			8	8830*	1.4	1546*	42	46393*	60	66276*
01-12-71	26600	6.7			0	0	1.1	352	70	22379	74	23658
02-08-71	24500	6.7			2	598	.2	59	95	27978	58	17081
03-08-71	67500	7.0			4	3246	.45	365	48	38947	56	45438
04-05-71	25000	7.4			12	3606	.4	120	80	24040	72	21636
05-03-71	8400	7.7			30	3030	.6	61	140	14140	155	15655
06-01-71	5700	7.6			44	3014	.3	21	185	12673	134	9179
06-25-71	3700	6.9			48	2136	.7	31	250*	11125	176	7832
07-26-71	3400	7.8			64*	2618	.4	16	145	5931	174	7117
08-24-71	3600	7.6			40	1732	.1	4	235	10176	166	7188
10-07-71	13398	7.0			34	5474	.1	16	95	15293	110	17710
11-09-71	8573	7.0			50	5150	.1	10	160	16480	170*	17510
Average	23291	7.1			24	3116	.65	225	125	19894	110	21260

Sta 8 Infra Huskins

09-21-70	7920	4.6*	30*	2856*	0	0	3.5*	333	310*	29512	130	12376
10-19-70	14400	7.0			30	5193	3	519	210	36351	98	16964
11-16-70	37500	6.3			24	10819	3.25	1465*	124	55899*	124	55899*
12-14-70	78700*	6.5			10	9460	1.4	1324	40	37840	58	54868
01-12-71	23570	6.6			10	2797	1.8	503	90	25173	74	20698
02-08-71	21810	6.5			8	2098	3.5*	918	90	23598	78	20452
03-08-71	58020	6.8			20	13948*	.35	244	44	30686	54	37660
04-05-71	22300	7.2			20	5360	.9	241	105	28140	86	23048
05-03-71	8330	7.4			40	4004	1.2	120	130	13013	200*	20020
06-01-71	5890	7.5			50	3540	.4	28	180	12744	126	8921
06-25-71	3180	6.9			58	2216	1.4	53	300	11460	172	6570
07-26-71	3280	7.6			80*	3152	.7	28	140	5516	154	6068
08-24-71	3530	7.5			74	3138	.1	4	240	10176	166	7038
10-07-71	8645	7.0			30	3117	.6	62	105	10910	120	12468
11-09-71	5727	6.8			56.	3853	.3	21	160	11008	180	12384
Average	20187	6.8	2	190	34	4846	1.49	391	151	22802	121	21029

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta 9 Ultra Huskins

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	6820	6.5*	0	0	40	3280	.1	8	220	18040	100	8200
10-19-70	12050	6.8			6	869	.5	72	170	24616	86	12453
11-16-70	30510	6.8			24	8801*	1.7*	623	28	10268	96	35203
12-14-70	63440*	6.7			8	6100	1.6	1220*	36	27450*	52	39650*
01-12-71	19400	6.7			26	6063	.8	187	60	13992	74	17257
02-08-71	17990	6.6			4	865	1.6	346	100	21620	80	17296
03-08-71	46880	6.7			10	5635	.65	366	42	23667	70	39445
04-05-71	18390	7.0			24	5304	.7	155	105	23205	96	21216
05-03-71	7220	6.8			38	3298	.7	61	160	13888	128	11110*
06-01-71	5200	7.4			48	3000	.1	6	180	11250	126	7875
06-25-71	2840	7.0			78	2660	.7	24	320*	10912	166	5661
07-26-71	2840	7.3			82*	2796	1.2	41	185	6309	176*	6002
08-24-71	3050	7.2			82*	3009	.1	4	260	9542	162	5945
10-07-71	7182	7.1			54	4660	.5	43	130	11219	120	10356
11-09-71	stag	6.8			60		.2		155		160	
12-23-71	stag	7.3			32		.9		44		96	
Average	15238	6.9			39	3521	.75	197	137	14124	112	14854

Sta 10 Infra 1BH8

09-21-70	6360	7.3	0	0	50	3820	.6	46	210	16044	140	10696
10-19-70	11060	6.8			22	2924	.9	120	185	24587	86	11429
11-16-70	27550	6.8			28	9271*	3	993	38	12582	84	27812
12-14-70	56990*	6.2			10	6850	1.4	959	42	28770*	58	39730*
01-12-71	17630	6.6			24	5086	1.4	297	90	19071	76	16104
02-08-71	16380	6.5			20	3938	.1	20	110	21659	78	15358
03-08-71	42160	6.1*			8	4054	3.3*	1672*	52	26354	56	28381*
04-05-71	16730	6.9			22	4424	1.3	261	110	22121	100	20110
05-03-71	6750	6.9			34	2757	.9	73	185	15004	140	11354
06-01-71	4910	7.0			56	3304	.1	6	210	12390	126	7434
06-25-71	2700	6.7			82	2657	2.5	81	240	7776	176	5702
07-26-71	2660	7.0			92*	2935	.8	26	195	6221	160	5104
08-24-71	2840	6.9			84	2873	.4	14	310*	10602	166	5677
10-07-71	4870	6.7			50	2925	1.9	111	150	8775	110	6435
11-09-71		6.5			66		.2		185		180*	
Average	14639	6.7			43	3855	1.3	312	154	15464	115	14088

Sta 11 Infra 4BH14

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	3710	6.9	0	0	30	1338	3.2	143	270	12042	102	4549
10-19-70	7300	6.7			22	1929	.4	35	160	14032	78	6841
11-16-70	20330	6.6			28	6843	5*	1222*	40	9776	80	19552
12-14-70	43540*	6.5*			12	6281	2.2	1151	32	16749	56	29310*
01-12-71	12450	6.5*			24	3590	2.3	344	90	13464	72	10771
02-08-71	11450	6.5*			14	1926	2.5	344	100	13760	86	11834
03-08-71	31930	6.5*			20	7676*	2.2	844	54	20725*	50	19190
04-05-71	11740	6.7			26	3669	5.5	776	110	15521	76	10724
05-03-71	3860	6.8			44	2042	1.3	60	135	6264	136	6310
06-01-71	2570	6.8			70	2163	1.1	34	190	5871	128	3955
06-25-71	1280	6.8			88	1355	3.6	55	310*	4774	180*	2772
07-26-71	1430	7.0			94*	1617	.4	7	195	3354	164	2821
08-24-71	1570	6.9			76	1436	1.4	26	300	5670	140	2646
Average	11782	6.7			42	3220	2.4	388	153	10923	104	8752

Sta 12 Infra 4BH15

09-21-70	3140	6.8			56	2111	4	151	270	10179	116	4373
10-19-70	6250	6.7			46	3455	3.2	240	170	12767	88	6609
11-16-70	18010	6.7			40	8660	5	1083	38	8227	100	21650
12-14-70	38750*	6.7			30	13974*	3.5	1630	90	41922*	64	29811
01-12-71	10960	6.6*			34	4478	7.75	1021	60	7902	78	10273
02-08-71	10060	6.7			88*	10639	4	484	190	22971	116	14024
03-08-71	28400	6.7			38	12973	10.25	3499*	56	19118	88	30043*
04-05-71	10320	6.9			80	9920	11*	1364	180	22320	106	13144
05-03-71	3300	6.9			62	2461	4.5	179	160	6352	128	5082
06-01-71	2120	6.8			66	1683	1	26	220	5610	116	2958
06-25-71	960	6.7			60	696	3.2	37	230	2668	154	1786
07-26-71	1090	7.0			46	603	1.5	20	185	2424	188*	2463
08-24-71	1220	7.2			76	1117	7	103	300*	4410	170	2499
Average	10352	6.8			56	5598	5.07	757	165	12836	116	11132

Sta 13 Ultra 4BH15

09-21-70	2580	6.5	0	0	20	620	2.5	78	150	4650	88	2728
10-19-70	5460	6.5			8	525	1.7	112	120	7872	68	4461
11-16-70	16200	6.6			18	3505	2.2	428	22	4283	80	15576

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta 13 Ultra 4BH15 (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
12-14-70	35290*	6.5	0	0	6	2545	3.1	1315*	28	11878*	52	22058*
01-12-71	9700	5.9*			0	0	2.2	257	38	4431	60	6996
02-08-71	8870	6.4			4	426	2.9	309	60	6396	68	7249
03-08-71	25790	6.5			10	3100*	1.3	403	28	8680	48	14880
04-05-71	9100	6.5			6	656	2.5	274	70	7658	70	7658
05-03-71	2620	6.5			26	819	2.7	85	100	3150	82	2583
06-01-71	1640	6.3			30	591	3.8	75	185	3645	120	2364
06-25-71	800	6.3			56	538	2.4	23	290*	2784	150	1440
07-26-71	1010	6.5			40	484	2.5	30	140	1694	128	1549
08-24-71	1120	6.7			76*	1026	.3	4	260	3510	178*	2403
10-07-71	3573	6.6			28	1201	.4	17	170	7293	140	6006
11-09-71	1400	6.0			26	437	.9	15	135	2268	130	2184
12-23-71	6650	6.9			4	320	6.8*	543	2.8	224	112	8949
Average	8238	6.4			22	1050	2.4	248	112.4	5026	98	6818

Sta 14 Lower North Trib.

09-21-70	1330	7.2	0	0	20	320	.7	11	42	672	54	864
10-19-70	2840	7.0			24	818	.1	3	42	1432	46	1569
11-16-70	8460	7.0			14	1424*	1.8	183	16	1627	52	5288
12-14-70	18440*	6.7			6	1330	1	222*	24	5318*	40	8864*
01-12-71	5050	6.4			8	486	.1	6	24	1457	42	2549
02-08-71	4610	6.6			14	776	.9	50	24	1330	46	2548
03-08-71	13480	6.6			4	648	1.35	219	20	3240	46	7452
04-05-71	4740	6.9			10	570	1.5	86	24	1368	70	3990
05-03-71	1340	7.1			18	290	.9	14	24	386	76	1224
06-01-71	840	7.0			20	202	.6	6	30	303	46	465
06-25-71	410	6.2*			26	130	.9	5	24	120	44	220
07-26-71	530	6.9			24	154	1	6	44*	282	46	294
08-24-71	590	6.7			40*	284	4.25*	30	38	270	66	469
10-07-71	2065	6.8			26	645	1.1	27	44*	1091	40	992
11-09-71	391	6.7			30	141	1	5	38	179	90	423
12-23-71	1580	6.9			18	342	.8	15	30	570	96*	1824
Average	4169	6.8			19	535	1.13	..56	30	1228	56	2440

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta 15 Upper North Trib.

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALF	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	600	7.3	0	0	28	202	.1	1	44	317	54	461
10-19-70	1290	7.0			22	341	.1	2	48*	744	48	744
11-16-70	3860	7.0			12	557	1.2	56	24	1114	56	2598
12-14-70	8410*	6.8			10	1011*	.7	71	24	2426*	40	4044*
01-12-71	2300	6.6			6	166	.1	3	16	442	42	1159
02-08-71	2100	6.7			12	302	22*	554*	36	907	46	1159
03-08-71	6150	6.7			8	591	.5	37	22	1626	52	3843
04-05-71	2160	7.2			8	208	.1	3	36	936	40	1040
05-03-71	610	7.3			22	161	1	7	32	234	64	467
06-01-71	380	7.3			24	110	.6	3	30	138	60	276
06-25-71	190	6.5*			42	96	2	5	32	73	72	164
07-26-71	240	7.2			46	133	.8	2	28	81	80*	232
08-24-71	270	6.8			60*	192	1.4	4	30	96	60	192
Average	2197	7.0			23	313	2.4	58	31	703	56	1260

Sta 16 Lower South Trib.

09-21-70	620	7.3	0	0	94*	705*	.4	3	34	255	56	420
10-19-70	1320	7.0			16	254	.1	2	34	541	48	763
11-16-70	3930	7.0			10	472	.5	24	40	1888	60	2832
12-14-70	8580*	6.8			6	619	1.6	165*	28	2887*	40	4124
01-12-71	2350	6.6*			6	169	.6	17	24	677	42	1184
02-08-71	2150	6.7			14	361	1.3	34	24	619	48	1238
03-08-71	6270	6.7			4	302	.3	23	22	1659	56	4222*
04-05-71	2200	7.2			10	264	.1	3	24	634	38	1003
05-03-71	630	7.2			22	167	.5	4	38	289	46	350
06-01-71	390	7.5			20	94	.1	.5	44*	207	46	216.
06-25-71	190	6.7			38	87	1.8	4	22	51	60	138
07-26-71	250	7.3			24	72	.5	2	38	114	68	204
08-24-71	270	6.8			34	109	.1	.3	38	122	72	230
10-07-71	189.	6.9			20	44	.1	.2	38	84	36	79
11-09-71	56	6.7			20	13	.5	.3	34	23	68	46
12-23-71	2500	7.3			18	540	3.2*	96	40	1200	84*	2520
Average	1993	7.0			22	267	.7	23.6	33	703	54	1223

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 17 Upper South Trib.

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	380	4.7*	0	0	22	101	.1	.5	36	166	46	212
10-19-70	810	6.6			0	0	.1	1	34	330	42	407
11-16-70	2410	7.1			12	348	.4	12	28	812	70*	2030
12-14-70	5260*	6.9			4	253	2.5*	158*	28	1770*	40	2528*
01-12-71	1440	6.7			6	104	.1	2	22	381	38	657
02-08-71	1310	6.8			8	126	1	16	22	345	50	785
03-08-71	3840	6.7			10	462*	.4	18	32	1478	32	1478
04-05-71	1350	7.3			6	97	.1	2	32	518	34	551
05-03-71	380	7.3			18	83	.5	2	24	110	38	175
06-01-71	240	7.6			20	58	.5	1	46*	133	38	110
06-25-71	120	6.6			46*	64	.7	1	24	34	70*	98
07-26-71	150	7.9			34	61	.1	.2	42	76	68	122
08-24-71	160	6.7			20	38	.1	.2	44	84	50	95
Average	1373	6.8			16	138	.6	16.5	32	480	47	711

Sta 18 1BH8 Egress

09-21-70	482	6.0	0	0	20	116	2	12	375	2175	242	1404
10-19-70	480	5.9	20	95	0	0	2.4	11	480*	2285	236	1123
11-16-70	487	5.8			24	142	5	30	320	1888	300	1770
12-14-70	492	6.0			34	201	3.1	18	340	2006	266	1569
01-12-71	485	5.9			16	93	1.1	6	280	1624	220	1276
02-08-71	497	5.7			22	132	1.4	8	300	1800	236	1416
03-08-71	495	5.9			30	180	1.1	7	300	1800	220	1320
04-05-71	483	5.9			24	139	4.75	28*	230	1334	200	1160
05-03-71	479	5.6			18	104	1.4	8	320	1856	240	1392
06-01-71	471	5.7			30	171	.9	5	310	1767	220	1254
06-25-71	478	5.7			20	114	.3	2	270	1539	226	1288
07-26-71	470	6.0			40	224	.1	1	225	1260	242	1355
08-24-71	474	6.0			42	239	.1	1	310	1767	242	1379
10-07-71	548	5.6			20	132	3.5	23	310	2046	240	1584
11-09-71	453	5.3*			48*	259	.8	4	280	1512	310	1674
12-09-71	454	6.4			36	198	3.9	21	320	1760	320	1760

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta 18 1BH8 Egress (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
12-17-71	550	6.3			18	119	3.3	22	310	2046	340*	2244
02-24-72	1134	5.9			30	409*	.1	1	310	4226	280	3817*
03-27-72	1595*	6.4			16	307	.2	3	205	3930	152	2914
04-21-72	891	6.3	5	54			.2	3	290	3106	204	2185
05-30-72	972	5.6	40	467			1.8	21	340	3972	276	3225
06-29-72	1017	6.2	52*	636*			1.2	15	390	4767*	256	3129
07-28-72	1076	6.0	46	595			1.3	16	286	3699	236	3052
Average	651	5.9	7.1	80	21	143	1.7	12	309	2355	248	1882

Sta 19 1BH8 Swamp

09-21-70	482	6.0	0	0	30	174	2.75	16	460	2668	286*	1659
10-19-70	480	6.0	20*	116*	0	0	2.1	12	490*	2842*	232	1346
11-16-70	487	5.9			36	212	4.25*	25*	340	2006	284	1676*
12-14-70	492	6.0			30	177	1.6	9	310	1829	216	1274
01-12-71	485	6.0	4		4	23	.8	5	390	2262	226	1311
02-08-71	497*	5.6*			8	48	1.25	8	280	1680	225	1350
03-08-71	495	5.9			30	177	1.34	8	280	1652	220	1298
04-05-71	483	6.0			20	116	1.7	10	280	1624	210	1218
05-03-71	479	5.9			18	104	1.2	7	320	1856	240	1392
06-01-71	471	5.9			32	182	.5	3	280	1596	230	1311
06-25-71	478	5.9			26	148	.8	5	270	1539	220	1254
07-26-71	470	6.2			44	246	.5	3	220	1232	260	1456
08-24-71	474	6.3			94*	536*	.1	1	290	1653	260	1482
Average	483	6.0	2	9	29	165	1.45	9	324	1880	239	1387

Sta 20 4BH14 Egress

09-21-70	200	6.3	0	0	312	749	30	72	700	1680	202	485
10-19-70	300	6.3			76	274	24	86	740*	2664	120	432
11-16-70	200	6.1			76	182	22.5	54	480	1152	120	288
12-14-70	231	6.2			110	308	20	56	700	1960	196	549
01-12-71	200	6.0			82	197	11	26	600	1440	240	576

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta 20 4BH14 Egress (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
02-08-71	200	6.2			84	202	27.5	66	320	768	190	456
03-08-71	200	6.1			130	312	22.5	54	525	1260	200	480
04-05-71	200	6.3			120	288	16	38	525	1260	184	442
05-03-71	200	6.3			120	288	14	34	525	1260	186	446
06-01-71	200	6.2			150	360	19	46	625	1500	172	413
06-25-71	200	6.0			110	264	25	60	525	1260	185	444
07-26-71	200	6.3			180	432	50	120	375	900	184	442
08-24-71	200	6.3			1280*	3072*	15	36	600	1440	152	365
10-07-71	651*	6.1			140	1092	20	156*	550	4290*	180	1404
11-09-71	516	5.8*			190	1178	9	56	420	2604	260	1612
12-09-71	317	6.7			230	874	9	34	375	1425	500*	1900*
12-17-71	460	6.6			190	1045	4.2	23	375	2063	260	1430
Average	275	6.2			211	654	19.9	60	527	1702	208	716

Sta 21 4BH14 Confluence

09-21-70	977	6.7	0	0	312*	3650*	40	468*	620*	7254*	154	1802
10-19-70	1605	6.5			40	772	13.3	257	330	6369	104	2007
11-16-70	2382	6.5			54	1544	16	458	72	2059	140	4004*
12-14-70	4445*	6.5			26	1388	3.5	187	70	3738	56	2990
01-12-71	1716	6.4			68	1401	8	165	200	4120	108	2225
02-08-71	1631	6.5			62	1215	8	157	195	3822	108	2117
03-08-71	3364	6.3*			36	1454	4	162	54	2182	90	3636
04-05-71	1656	6.6			80	1592	21	418	280	5572	120	2388
05-03-71	989	6.6			92	1095	29	345	380	4522	158	1880
06-01-71	880	6.6			140	1484	19	201	475	5035	170	1802
06-25-71	771	6.5			26	242	7	65	390	3627	184*	1711
07-26-71	783	6.7			180	1692	40*	376	350	3290	176	1654
08-24-71	795	6.7			80	768	13	125	370	3552	180	1728
10-07-71	700	6.7			9	76	14	118	310	2604	120	1008
11-09-71	720	6.4			230	2001	2.8	24	310	697	180	1566
12-09-71	3010	7.2			32	1155	4.3	155	44	1588	90	3249
Average	1652	6.6			92	1346	15.2	230	278	3752	134	2235

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 22 4BH15 Egress - Concrete

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	150	6.6	0	0	312	562	15	27	460	828	156	281
10-19-70	150	6.4			58	104	18 *	32	480*	864	112	202
11-16-70	200	6.4			148	355	12.5	30	300	720	124	298
12-14-70	231*	6.5			70	196	10	28	350	970*	168	470
01-12-71	200	6.4			164	394	2.2	5	180	432	190	456
02-08-71	200	6.5			80	192	12.5	30	280	672	175	420
03-08-71	200	6.5			130	312	10	24	200	480	165	396
04-05-71	200	6.5			90	216	12	29	270	648	156	374
05-03-71	200	6.5			160	384	16	38*	400	960	164	394
06-01-71	150	6.4			180	324	15	27	400	720	160	288
06-25-71	40	6.2*			200	96	1.4	1	400	192	166	80
07-26-71	NO FLOW											
08-24-71	NO FLOW											
11-09-71	NO FLOW											
12-09-71	75	6.9			200	180	15.4	14	350	315	220	198
12-17-71	150	6.7			700*	1260*	7.5	14	375	675	900*	1620*
Average	126	6.5			156	286	9.2	19	278	530	179	342

Sta 23 4BH15 Egress - Wood

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	1050	6.5	0	0	288*	3629*	14	176	540*	6804*	190	2394
10-19-70	1050	6.4	18*	227*	0	0	16	202	460	5796	116	1462
11-16-70	1400	6.3			128	2150	12.5	210	340	5712	126	2117
12-14-70	1610*	6.5			100	1940	3.1	60	350	6790	156	3026*
01-12-71	1400	6.4			82	1378	2.5	42	190	3192	170	2856
02-08-71	1400	6.5			94	1579	16.5*	277*	360	6048	165	2772
03-08-71	1400	6.4			170	2856	10	168	210	3528	170	2856
04-05-71	1400	6.4			180	3024	12	202	300	5040	170	2856
05-03-71	1400	6.5			160	2688	9.5	160	375	6300	178	2990
06-01-71	1050	6.3			170	2142	11.5	145	325	4095	158	1991
06-25-71	280	6.3			130	437	15.4	52	350	1176	168	564
07-26-71	5	6.3			160	10	10.5	.6	375	23	164	10
08-24-71	5	6.4			230	14	9	.5	525	32	162	10

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta 23 4BH15 Egress - Wood (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
11-09-71	359	5.8*			170	731	7.3	31	170	731	260*	1118
12-09-71	392	6.7			210	987	4.5	21	375	1763	240	1128
12-17-71	400	6.7			710	3408	12	58	350	1680	240	1152
Average	913	6.4	1	14	186	1686	10.4	112.8	350	3669	177	1831

Sta 24 4BH15 Confluence

09-21-70	1400	6.8	0	0	270*	4536*	15	252	480*	8064	172	2890
10-19-70	1584	6.7			94	1786	12.5	238	325	6175	122	2318
11-16-70	2657	6.7			94	2999	11.5	367	28	893	112	3573
12-14-70	4096*	6.7			42	2066	6.5	320	130	6396	92	4526
01-12-71	2251	6.7			94	2538	5.5	149	100	2700	134	3618
02-08-71	2199	6.7			72	1901	4	106	260	6864	140	3696
03-08-71	3256	6.7			64	2502	17	665*	210	8211*	110	4301
04-05-71	2214	6.8			100	2660	10	266	300	7980	152	4043
05-03-71	1807	6.9			194	4210	17	369	300	6510	156	3385
06-01-71	1340	6.8			30	483	1.12	18	400	6440	140	2254
06-25-71	394	6.7			190	893	30	141	350	1645	166	780
07-26-71	86	6.9			170	175	30	31	425	438	164	169
08-24-71	94	7.0			190	215	10	11	475	537	156	176
10-07-71	736	6.5*			120	1068	16	142	280	2475	200	1768
11-05-71	449	6.6			186	1004	18	97	290	1566	220*	1188
12-09-71	3000	7.2			44	1584	8.5	306	95	3420	100	3600
12-17-71	1822	7.1			14	307	6	131	22	482	220*	4818*
Average	1729	6.8			116	1819	12.86	212	263	4164	150	2771

Sta 25 NuMine Shaft (4PS2)

09-21-70	150	6.5	0	0	316*	569*	27.5	49	580*	1044	154	277
10-19-70	150	6.5			22	46	32	58	500	900	118	212
11-16-70	201	6.4			74	178	45	108	38	91	126	302
12-14-70	231*	6.2*			130	364	11	31	220	616	180	504*
01-12-71	200	6.5			20	48	7.5	18	190	456	160	384

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta 25 NuMine Shaft (4PS2) (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
02-08-71	210	6.5			24	60	67.5 *	169 *	320	800	175	438
03-08-71	201	6.6			130	312	25	60	450	1080*	160	384
04-05-71	200	6.6			80	192	24	58	260	624	164	394
05-03-71	200	6.7			110	264	32.5	78	450	1080*	70	168
06-01-71	151	6.5			70	126	1.1	2	375	675	160	288
06-25-71	40	6.6			200	96	8	4	475	228	176	85
07-26-71	26	6.4			94	29	10	3.1	220	68	164	51
08-24-71	19	6.4			110	25	9.5	2.2	340	78	180	41
12-09-71	39	6.9			140	66	10	5	250	117	300	141
12-17-71	67	6.9			210	168	21	17	375	300	320*	256
Average	139	6.5			115	170	22.1	44.2	336	544	174	262

Sta 26 Huskins Bridge/03066

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	840	3.0*	220*	2222	0	0	20	202	750	7575	180	1818
10-19-70	1790	3.3	120	2592			36 *	778	330	7128	122	2635
11-16-70	5330	3.3	110	7051*			16.3	1045 *	7100*	45511*	154	9871*
12-14-70	11620*	4.0	22	3073			1.1	154	100	13970	132	5042
01-12-71	3180	3.9	50	1910			8.5	325	160	6112	115	4025
02-08-71	2910	3.8	46	1610			9.5	333	160	5600	96	9792
03-08-71	8490	5.0	8	816			2.5	255	100	10200	108	3877
04-05-71	2990	5.6	20	718			3.4	122	105	3769	150	1530
05-03-71	850	4.7	14	143			3	31	155	1581	150	960
06-01-71	530	4.4	24	154			1.4	9	170	1088	210	651
06-25-71	260	4.4	12	37			1.3	4	185	574	284*	1136
07-26-71	330	4.7	20	80			.7	3	195	780	244	1074
08-24-71	370	5.6	10	44			4.75	21	250	1100	150	3262
Average	3038	4.3	52	1834			8.34	252	751	8076	150	3262

Sta 27 Huskins Bridge/T670

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
09-21-70	170	6.3	0	0	14	28	1.7	3	42	84	66	132
10-19-70	360	6.4			16	69	.7	3	34	146	42	181

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 27 Huskins Bridge/T670 (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
11-16-70	1070	6.6	0	0	26	335*	.6	8	38	490*	56	722
12-14-70	2340*	6.4			6	169	.55	15	10	281	52	1461*
01-12-71	640	6.1*			6	46	.1	1	20	154	38	293
02-08-71	580	6.1*			6	42	.8	1	38	266	40	280
03-08-71	1710	6.2			10	206	.4	8	22	453	40	824
04-05-71	600	7.0			6	43	.5	4	28	202	36	259
05-03-71	170	6.9			20	40	.8	2	24	48	46	92
06-01-71	110	6.7			28	36	2.2*	3	30	39	46	60
06-25-71	50	6.5			44	26	.8	.5	24	14	64	38
07-26-71	70	6.9			64*	54	.4	.3	38	32	104*	87
08-24-71	70	6.6			20	17	.8	7	75*	63	74	62
Average	611	6.5			21	92	.72	4.5	32	186	54	380

Sta 28 Well - Yatesboro Raw

01-12-71	78	6.8*			78		.1		24		114	
02-08-71	150	7.9			150		.4		28		220	
03-08-71	92	7.0			92		.45		32		110	
04-05-71	94	7.2			94		1.74*		32		106	
05-03-71	192*	7.5			192*		.6		24		225*	
06-01-71	96	7.2			96		1.6		24		118	
06-25-71	94	7.1			94		1.6		38*		130	
07-26-71	96	7.1			96		.7		38*		116	
08-24-71	94	7.4			94		.1		22		94	
Average	110	7.2			110		.81		25		137	

Sta 29 Well - Yatesboro Treated

01-12-71	194	7.8			194		.1		140*		62	
02-08-71	94	7.6			94		1.1*		32		220	
03-08-71	196	7.1*			196		.35		24		8	
04-05-71	88	7.7			88		.1		22		186	
05-03-71	96	7.7			96		.3		24		214	

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta 29 Well - Yatesboro Treated

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
06-01-71		7.7			96		.1		18		210	
06-25-71		7.6			156		1.1 *		22		210	
07-26-71		7.6			184		.1		50		250*	
08-24-71		7.5			290*		.1		30		216	
Average		7.6			155		.37		40		175	

Sta 30 Well - Rural Valley Raw

01-12-71		7.5*			164		5	*	155		50	
02-08-71		8.4			84		1.8		160		72*	
03-08-71		8.0			196		.2		84		56	
04-05-71		7.9			248		.1		160		54	
05-03-71		7.8			96		.9		140		62	
06-01-71		8.3			396*		.1		125		60	
06-25-71		7.5*			90		.3		160		66	
07-26-71		8.3			146		.1		140		64	
08-24-71		7.6			290		.1		175*		64	
Average		7.9			190		1.0		144		61	

Sta 31 Well - Rural Valley Treated

01-12-71		7.5			182		.1		24		170*	
02-08-71		7.6			94		.4		190*		60	
03-08-71		7.4			180		.15		78		64	
04-05-71		7.5			290*		.1		180		100	
05-03-71		7.5			270		.4		150		66	
06-01-71		7.2*			160		.1		180		44	
06-25-71		7.3			190		1.1 *		155		64	
07-26-71		7.3			94		.1		185		86	
08-24-71		7.6			64		.1		155		52	
Average		7.4			169		.28		144		78	

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta 32 (NuMine Treated) Well - NuMine Treated

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
01-12-71		8.0			248		.6		28		52	
02-08-71		8.2			190		1		60		76	
03-08-71		8.0			194		.3		22		64	
04-05-71		8.1			295		.4		38		106*	
05-03-71		8.1			178		1.2*		32		52	
06-01-71		8.2			356*		.52		42		52	
06-25-71		7.9*			190		.7		70*		60	
07-26-71		8.1			160		.3		44		76	
08-24-71		8.0			196		.1		42		46	
Average		8.1			223		.57		42		65	

Sta 33 Interior Margaret Mine

02-08-71		7.3			24		.8		135		230	
03-08-71		7.3			80*		.44		38		200	
05-03-71		2.9*					32.5*		900*		230	
04-21-72	270*	7.5			52	169*	.24	.8	108	351*	196	636*
06-02-72	32	7.1			73	28	.88	.3	130	50	324*	124
07-07-72	72	6.8			50	43	9.4	8.1*	130	113	188	163
07-28-72	43	7.2			79	41	1.13	.6	158	82	240	125
Average	104	6.6			51		6.48		228		230	

Sta 34 Egress 2PS25

02-08-71	76	2.8	820	749			164*	149.8*	1455	1329	250	228
03-08-71	104	2.7	1062*	1328*			119	148.8	1750*	2188*	245	306
04-05-71	56	2.9	334	225			25	16.8	637	429	254	171
06-01-71	42	2.7	275	139			14	7.1	350	177	282	142
06-25-71	30	2.7	86	31			9	3.2	378	136	390	141
07-26-71	38	3.0	101	46			11	5.0	621	284	474	217
08-24-71	61	3.0	175	128			18	13.2	875	642	500*	367
02-24-72	81	2.2*	130	127			8.0	7.8	600	584	490	477*

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta 34 Egress 2PS25 (Cont'd)

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
03-27-72	95	3.3	134	152			3.40	3.9	180	204	192	218
04-21-72	113	3.9	123	166			3.46	4.7	300*	406	268	362
05-30-72	72	3.0	170	147			6.9	6	505	437	364	315
06-29-72	117*	3.5	152	214			7.5	10.6	310	436	276	388
07-28-72	36	3.7	183	79			9.3	4	295	128	380	164
Average	71	3.0	288	272			31	29.3	635	568	336	269

Sta 35 Decker Mine

06-25-71	10	4.1	64	7.7			17.5	2.1	400	48	426	51
07-26-71	4	4.0	62	3.0			16	.8	390	19	220	11
08-24-71	8	3.8	86*	8.2			8	.8	950*	91	530	51
09-01-71	32	3.5*	70	26.9			1.3	.5	420	161	300	115
10-07-71	21	5.0	24	6.2			14	3.5	370	93	440	111
11-08-71	13	3.8	64	10			12	1.9	750	120	660*	106
12-20-71	90*	5.2	32	35 *			21	* 23 *	280	302*	500	540*
Average	25	4.2	57	13.9			12.8	4.7	509	119	439	141

Sta 36 8PS11

02-24-72	50	2.6*	36	22			.09	.1	190	115	190	115
03-27-72	58	3.8	66*	46*			.21	.2	74	52	88	61
04-21-72	117	4.5	22	31			.34	.5	100	141	80	113
05-30-72	22	3.5	64	16			10.3	2.5	195	50	184	47
06-29-72	144*	4.4	23	40			15.6 *	* 27 *	102	177*	92	159*
07-28-72	22	4.0	63	16			12.0	3.1	280*	71	200*	51
Average	69	3.8	46	29			6.4	5.6	157	101	139	91

Sta 37 3PS3

02-24-72	5.4	6.5	74	4.8			.10	.01	70	5	240	15.6
03-27-72	711	7.0	76	650			.18	1.5	256	2188	196	1675
04-21-72	1779	6.6	46	984			.21	4.5	310	6629	232	4961
06-29-72	3087	6.7	20	742			4.36	162	320	11874	252	9351

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta 38 8PS2

Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
02-24-72	1.1	5.6*			22*	.3	.10		280	3.8	440*	6
03-27-72	.7	6.8			20	.2	.14		230	1.9	264	2.2
04-21-72	16	6.5			18	3.5	.23	.04	275	52*	228	43
05-30-72	7.2	6.3			15	1.3	.44	.04	325*	28	376	33
06-29-72	25*	7.0			15	4.5*	1.18*	.35*	170	51	232	69*
07-28-72	.6	6.5					.07	.01	240	25	352	36
Average	9.8	6.5			15	1.6	.36	.07	253	27	315	32

Sta 39 1BH7

02-24-72	1.6	6.0			78	1.48	.1		320	6	300*	6
03-27-72	9.9	7.0			189*	22*	.14	.02	160	19	100	12
04-21-72	14*	6.3			36	6	1.80	.3	235	38*	200	32*
05-30-72	1.6	6.3	47*	.9			39	.7	315	6	300*	6
06-29-72	2	6.0*	47*	1*			37	.9*	410*	10	280	7
07-28-72	.3	6.3	25	.1			67.6*	.3	250	1	260	1
Average	4.8	6.3	20	.3	51	4.9	24	.4	282	13	240	11

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NTO	07-06-71	21	4.6*			80*	20.8	.6	.2	160*	4.2	260*	6.8
	08-31-71	7.2	7.1			32	2.8	85*	7.4	155	13.5	236	20.5
	10-07-71	56	6.5			36	24.1	4.2	2.8	95	63.6	220	147.4
	11-05-71	67	7.7			36	28.9	.3	.2	130	104	250	201.2
	11-08-71	10	6.8			28	3.4	2.7	.3	135	16.2	240	28.8
	12-20-71	448	7.1			20	108*	2.9	15.6*	42	226*	220	1188*
Average		101.5	6.6			39	31.3	16.0	4.4	120	71.3	238	265.5
NTO-A	08-31-71	3	7.0			68	2.5	1.3	.5	85	3.1	138	5
NTO-B	08-31-71	3	6.7			72	2.6	.9	.3	235	8.5	316	11.4
NTO-C	10-07-71		6.2			48		1.7		120		260	
NTO-D	10-07-71		6.2			240		38.5		475		380	
	12-01-71	3.6	6.7			82	3.5	2.6	.1	310	13	370	16
	12-20-71	36	6.8			38	16	27	12	100	43	240	103
NTO-E	01-22-71	1	3.1	280	3.4			130	1.6	1550	19	900	11
NT1	07-16-71	24	7.3			5.8	.2	2	.6	90	26	140	40.6
	11-05-71	29	8.0			60	21	.2	.1	60	20.4	200	68
NT2	07-16-71	25	2.8	450	135			31	.3	1100	330	480	144
	10-07-71	90	2.7	110	119			45	48.5	1350	1460	440	480
	11-05-71	76	3.6	396	360			77	70	1700	1550	680	620
	11-08-71	76	2.7	320	291			57.5	52	1400	1270	570	519
	12-20-71	1120	2.4	100	1340			30	402	375	5025	460	6164

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SL-159

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT2-A	09-01-71	134	1.9	31200	49920			77.5	1240	56000	89600	3000	4800
	10-07-71	79	2.6	260	260			70	66.4	1200	1138	360	341
	11-08-71	43	2.7	200	104			97.5	50.6	1600	832	670	348
	12-20-71	448	2.3	220	1182			50	269	310	1667	480	2582
NT2-B	06-25-71	10	4.1	64	7.7			17.5	2.1	400	48	426	51
	07-26-71	4	4.0	62	3.0			16	77	390	19	220	11
	08-24-71	8	3.8	86*	8.2			8	.8	950*	91	530	51
	09-01-71	32	3.5*	70	26.9			1.3	.5	420	161	300	115
	10-07-71	21	5.0	24	6.2			14	3.5	370	93	440	111
	11-08-71	13	3.8	64	10			12	1.9	750	120	660*	106
	12-20-71	90*	5.2	32	35			21	23	280	302*	500	540*
Average		25	4.2	57	13.9			12.8	15.5	509	119	439	141
NT2-C	09-01-71	78	5.5	14	13			14.5	14	160	150	200	188
	10-07-71	39	2.9	52	24			20	9	700	329	320	150
	11-08-71	31	2.8	100	37			65	24	1350	500	460	170
	12-20-71	247	2.7	56	166			28	83	425	1258	380	1125
NT2-D	09-01-71	22	2.8	120	31			18	4.7	850	221	340	88
NT2-E	09-01-71	49	2.8	130	77			85	50	1250	738	520	307
NT3	07-16-71	27	4.1	22	7.2			21	6.8	440	143	232	76
	09-01-71	340	3.6*	40*	163.6*			7	29	250	1023	360*	1472
	10-07-71	202	4.8			4.0*	9.7*	8	19	560	1361	300	729
	11-05-71	314	5.4	12	45.2			16	60	1350*	5090*	300	1131
	11-08-71	202	4.4	18	43.7			55	134*	760	1847	300	729
	12-20-71	876*	5.8	4	42.1			7.6	80	320	3360	290	3050*
Average		327	4.7	16	50.3	.7	1.6	19.1	54.8	613	2137	297	1198
NT3-A	07-16-71	23	5.1	60	17			40	11	900	248	208	57
	09-01-71	90	3.2	36	38.9			5.5	6	725	783	260	281
	10-07-71	121	5.3	22	31.9			14	20	740	1073	230	334
	11-08-71	202	5.3	26	63.2			24	58	1600	3888	310	753
	12-20-71	292	5.6	0	0			13.5	47	480	1680	260	910

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT3-B	09-01-71	155	4.4	90	167.4	60	323	3.5	6.5	560	1042	230	428
	12-20-71	448	6.0					15.5	83	425	2287	200	1076
NT3-C	09-01-71	17	4.7	132	26.9			4.3	.9	235	48	600	122
	10-07-71	10	4.3	32	3.8			7.5	.9	260	31	300	36
	11-08-71	1	3.2	52	.6			15.5	.2	700	8.4	550	6.6
	12-20-71	67	3.6	28	22			4.1	3.3	210	168	360	288
NT3-D	09-01-71	67	6.2			28	22	2.3	1.8	60	48	180	144
	12-20-71	50	6.6			16	9.6	2.1	1.3	48	29	150	90
NT4	07-16-71	53	3.1*	200*	127			3	1.9	1350*	857	770	489
	09-02-71	915	3.6	100	1100			.1	1.1	520	5720	800*	8800
	10-07-71	202	3.4	64	154			.6	1.4	520	1248	780	1872
	11-05-71	112	4.3			6*	8*	11*	15	480	643	640	858
	11-08-71	112	3.3	68	91			6	8	620	831	640	858
	12-20-71	2498*	3.3	44	1320*			2.6	78*	270	8100*	330	9900*
Average		649	3.5	79	465	1	1.3	3.9	17.6	627	2900	660	3796
NT4-A	07-16-71	97	2.6	600	696			75	87	2000	2320	1240	1438
	09-02-71	112	4.2	36	48			.1	.1	540	724	630	844
	12-20-71	81	3.5	20	19			5.5	5.4	220	214	240	234
NT4-B	09-02-71	7	3.2	110	9.2			3.6	.3	625	52	550	46
	01-15-72	10	2.8	36	4.3			10	.1	250	30	260	31
NT4-C	09-02-71	68	3.2	36	29	4	.2	19	15	475	387	400	326
	12-20-71	3.6	6.0					3.1	.1	180	7.2	170	6.8
NT4-D	09-02-71	121	5.9			6	8.7	1.6	2.3	125	181	200	290
	10-07-71	43	5.9			2	.1	.3	.2	85	44	100	52
	11-08-71	29	5.6			4	1.2	1.9	.7	105	37	200	70
	12-20-71	328	6.5			4	16	1.2	4.7	70	276	56	221

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT4-E	10-07-71	10	6.1			14	1.7	.1		70	8.4	96	12
	11-08-71	7	6.3			18	1.5	1	.1	95	.8	140	12
	12-20-71	391	6.5			14	66	.1	.5	38	179	120	564
NT4-1	10-19-71		7.2			40		.1		60		120	
NT5	07-16-71	23	6.9			40	11	.7	.2	150	41	118	33
	10-19-71		7.3			48		.1		225		320	
	11-05-71	58	7.8			36	25	.1	.1	130	91	220	154
	12-09-71	1360	7.1			12	196	.3	4.9	95	1549	160	2608
NT5-A	10-19-71		6.5			20		2.1		190		460	
	12-09-71	920	7.2			18	200	.2	2.2	75	833	110	1221
NT6	07-16-71	28	6.6			10	3	.1		100	34	72	24
	10-20-71		7.2			38		.1		70		100	
	11-05-71	31	7.7			34	13	.1		75	28	150	56
NT6-A	10-20-71		6.7			30		.5		24		44	
NT7	07-16-71	38	6.5			40	18	.1		36	16	100	46
	11-05-71	Stag	7.5			34		.2		30		120	
NT7-1	10-20-71		6.9			16		.6		22		110	218
	12-03-71	202	7.9			18	44	.6	1.5	38	92	90	
NT8	07-16-71	31	7.3			26	9.7	.6	.2	130	48	84	31
	10-20-71		7.0			24		.1		140		200	
	11-05-71	21	7.8			38	9.6	.1		160	40	300	76
	12-07-71	1420	6.7			18	308	.9	15	100	1710	140	2394

WATER SAMPLING DATA COWANSHANNOCK CREEK WATERSHED SL-159

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT8-A	10-21-71		2.8	180				55		1250		920	
	12-07-71	8.3	2.7	100	9.9			19	1.9	375	37	240	24
NT8-B	10-21-71		3.5	84				1.2		280		330	
	12-07-71	89	3.9	16	17			2.7	2.9	100	107	170	182
NT8-C	10-20-71		7.0			38		.4		40		80	
	12-03-71	50	7.6			16	9.6	2.2	1.3	24	14	80	48
NT8-1	10-21-71		6.7			40		.4		270		320	
	12-07-71	381	6.6			4	18	.8	3.7	110	506	170	782
NT8-1-A	10-21-71		5.6					7.5		85		200	
	12-07-71	258	6.3			4	12	1.2	3.7	85	264	100	310
NT8-1-B	10-21-71		6.9			30		.6		28		90	
	12-07-71	67	6.2			34	27	1.3	1	70	56	130	104
NT8-2	07-16-71		7.1			40	28	.4		185	129	240	168
	10-21-71	58	6.5			32		1.4		190		270	
	11-05-71	516	7.7			26	161	.1	.6	145	900	260	1612
	12-13-71	736	7.1			22	194	.1	.9	135	1191	156	1376
NT8-2-A	10-21-71		3.4					1.9		60		120	
	12-07-71	50	3.5		7.2			1.3	.8	75	45	56	34
NT8-2-B	07-16-71		7.0			72		3		130		134	
	10-21-71		7.1			48		.1		75		140	

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT8-2-C	10-25-71		7.7			12		.2		30		180	
NT8-2-D	10-25-71		7.4			24		.2		30		110	
NT8-3	10-25-71		6.0			2		1.3		250		370	
	12-07-71	1120	5.7			4	54	3.3	45	120	1620	150	2025
NT8-3-A	10-25-71		6.7			12		5.5		1450		820	
	12-08-71	39	5.6			2	1	9.5	4.5	560	263	680	320
NT8-4	07-16-71	10	7.2			20	2	.3		460	55	492	59
	10-07-71	256	6.3			14	4	.1		250	77	296	91
	11-05-71	202	6.6			24	58	.1	.2	350	847	520	1258
	11-08-71	157	6.4			30	57	.1	.2	340	643	550	1040
	12-07-71	1362	6.4			16	262	1.5	25	120	1968	160	2624
NT8-4-A	10-25-71		6.6			60		17.5		620		740	
	12-08-71	8	6.4			36	3.4	8	.8	310	29	420	40
NT9	07-16-71	52	6.6			18	11	.5	.3	105	66	164	102
	11-05-71	202	6.8			20	48	.1	.2	85	204	230	552
NT9-A	10-25-71		6.2			48		3.6		340		490	
	12-07-71	224	6.4			16	43	1.6	4.3	105	284	180	486
NT9-B	10-25-71		5.6			4		.3		310		390	
	12-07-71	260	6.7			18	56	1.9	5.9	85	265	120	375

WATER SAMPLING DATA COWANSHANNOCK CREEK WATERSHED SL-159

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT10	07-16-71	34	6.8	20	8	1.4	.6	24	9.6	56	22		
	11-05-71	10	6.5	10	1.2	.1		30	3.6	90	11		
	12-17-71	562	7.0	12	82	.3	2	30	204	32	218		
NT11	07-16-71	31	6.8	22	8.2	3.3	1.2	105	39	150	56		
	11-05-71	31	6.5	46	17	.1		38	14	120	45		
	12-17-71	427	7.3	24	122	.7	3.6	38	193	88	449		
NT12	07-16-71	49	6.9	30	18	2.5	1.5	100	59	96	56		
	11-05-71	81	6.7	132	128	.6	.6	75	73	100	97		
	12-17-71	920	7.3	24	264	.9	9.9	34	374	76	836		
NT12-A	10-27-71		6.6	18		.8		105		200			
	12-08-71	1820	6.9	18	394	.2	4.4	95	2081	140	3066		
NT12-B	10-26-71		7.4	44		1.5		85		210			
	12-01-71	906	7.0	10	109	.7	7.6	155	1690	150	1635		
	12-09-71	875	7.0	10	105	.4	4.2	70	735	100	1050		
NT12-C	10-27-71		6.8	5.2		1.3		28		200			
	12-09-71	85	7.1	10	10	.6	.6	28	28	110	110		
NT13	07-16-71	73	6.8	36	3.2	.5	.4	38	33	70	61		
	11-05-71	382	6.7	24	110	.6	2.8	38	175	120	552		
NT14	07-16-71	24	7.0	96	28	3.1	.9	110	32	94	27		
	11-05-71	10	6.7	24	2.9	.1		70	8.4	120	14		
	12-17-71	382	7.2	20	92	.5	2.3	40	184	60	276		

COWANSHANNOCK CREEK WATERSHED

WATER SAMPLING DATA

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT14-A	07-16-71		7.5			44		.3		195		70	
NT15	07-16-71		6.7			20		.6		44		84	
NT16	07-16-71	17	7.4			164	33	.4	.1	68	14	112	23
	11-05-71	NO FLOW											
	12-17-71	292	7.0			14	49	.8	2.8	18	63	64	224
NT17	07-16-71	23	6.7			20	5.5	.5	.2	54	15	158	44
	11-05-71	1	7.5			56	6.7	6.8	.8	70	8.4	210	25
	12-16-71	63	7.4			18	14	.1	.1	48	36	60	45
NT18	07-16-71	18	6.7			32	6.9	1.7	.4	60	13	90	19
	11-05-71	1	7.6			28	3.4	2.2	.3	48	5.8	190	23
	12-16-71	202	6.9			18	44	2.7	6.5	70	169	48	116
NT19	07-16-71	28	6.9			40	13	.7	.2	54	18	118	40
	11-05-71	1.3	7.6			24	.4	.2		30	.4	140	2.1
NT20	07-16-71	125	7.0			26	39	.1	.2	44	66	50	75
	11-05-71	13	7.7			20	3.1	.2		24	3.7	100	16
NT20-1	07-16-71	NO FLOW											
	11-05-71	1	7.6			34	.4	1.9		38	.4	90	1.1
	12-16-71	54	7.4			18	12	.1	.1	44	29	36	23
NT21	07-16-71	4	7.1			40	1.9	1.2		48	2.3	70	3.4
	11-05-71	.1	7.5			20	.2	1.2		22	.2	130	1.6

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT21-1	07-16-71 12-16-71	NO FLOW 85	6.9	38	38	.6	.6	44	44	100	100		
NT21-2	07-16-71 11-05-71	1 1.3	7.2 7.9	40 28	.4 .4	3.5 .5	.4 .5	38 48	.4 .7	40 110	.4 .7		.4 1.6
NT22	07-16-71 11-05-71	2 1	7.0 7.7	40 34	.8 .3	1 .7	.8 .3	40 30	.8 .3	60 160	.8 .3		1.2 1.6
NT23	07-16-71 11-05-71	47 31	7.1 6.9	56 24	31 8.9	3 .8	1.7 .3	38 48	21 18	100 140	56 52		
NT23-1	07-16-71 11-05-71	1 1	7.0 6.9	54 62	.6 .7	1.9 1.9	.3 .7	28 38	.3 .5	96 120	1.1 1.4		
NT24	07-16-71 11-05-71 12-16-71	NO FLOW 1 12	7.3 6.5	82 10	1 1.4	31 .3	.4	38 30	.5 4.3	150 72	1.8 10		
NT25	07-16-71 11-05-71 12-17-71	NO FLOW 1	6.9 7.3	46 30	.6	.7 1		24 24	.3	150 88	1.8		
NT26	07-16-71 12-17-71	1.5 112	6.6 7.5	56 36	1 48	3.3 2	.1 2.7	30 24	.5 32	72 68	1.3 91		
NT27	07-16-71 11-05-71	1.5 1	6.8 6.6	84 42	1.5 .5	30 3.2	.5	30 30	.5 .4	176 140	3.2 1.7		

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
NT28	09-01-71	2.5	6.7			36	1.1	.8		38	1.1	142	4.
	11-05-71	1	6.9			82	1	2.8		24	.2	180	2
ST1	10-07-71		2.6	550						750		1300	
	12-02-71	8.1	2.7	550	53				20	2500	243	1500	145
ST1-A	10-07-71		4.4	6				2.1		340		520	
	12-02-71	15	3.7	70	13			4	.7	1200	216	700	126
ST1-B	10-07-71		3.0	100				105		1200		1000	
ST2	10-07-71		2.8	130				32.5		1600		1100	
	12-02-71	13	3.4	60	9			1	.2	1080	162	1040	156
ST3	07-16-71	9.5	4.4	16	1.8			.4		195	22	206	23
	09-01-71	3.2	5.0	12	.5			.1		145	5.5	4	.2
	12-21-71	10	4.3	8	1			1	.1	50	6	110	13
ST3-A	09-01-71	13	3.8	32	5			1.9	.3	75	12	184	29
	12-21-71	Stagnant	5.7			10		.1		30		100	
ST3-1	10-09-71		6.9			440		.5		310		680	
	12-02-71	12	7.4			92	13	2.5	.4	155	22	330	48
ST4	07-16-71	28	7.3			96	32	2.1	.7	140	47	344	
	10-09-71		6.7			56		1		145		300	
	11-05-71	31	7.6			80	30	1.5	.6	185	69	340	126
	12-02-71	1230	6.9			36	533	1	15	140	2072	340	5032

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST4-A	10-09-71		7.4			50		.8		145		230	
ST4-B	10-09-71		6.8			44		.7		170		360	
ST5	07-16-71	45	7.5			80	43	.1	.1	280	151	336	181
	10-11-71		7.0			28		2.2		230		320	
	11-05-71	112	7.3			42	57	1.1	1.5	220	297	350	473
	12-21-71	358	7.1			28	120	.3	1.3	185	796	110	473
ST5-A	10-11-71		6.7			46		.1		450		640	
	12-02-71	5.8	6.6			40	2.8	.1		85	5.9	210	15
ST5-B	10-11-71		7.2			40		.2		130		380	
	12-02-71	404	7.1			44	213	.9	4.4	600	2910	780	3783
ST6	07-16-71	351	7.8			48	202	.1	.4	80	336	150	630
	10-12-71		6.7			36		.1		70		210	
	11-05-71	1250	7.8			40	600	.2	3	85	1275	160	2400
	12-21-71	6950	7.3			16	1336	.2	17	38	3173	120	10020
ST6-A	10-12-71		7.2			34		.1		75		120	
	12-02-71	19	7.2			36	8.3	.1		135	31	240	55
ST6-B	10-12-71		7.3			50		.1		105		240	
	12-02-71	41	7.1			34	17	.1		75	37	120	59
ST6-C	10-11-71		3.6	40		16	40	.6		160		300	
	12-03-71	210	7.5					1.3	3.3	170	428	330	832

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST6-D	10-11-71	41	3.8	40		20	9.8	.8	.3	370	54	480	83
	12-03-71		7.4										
ST6-E	10-11-71	3878	6.6		38	746	.4	4.7	60	200	3262	200	3728
	12-13-71		7.3										
ST6-F	07-16-71	281	7.4		44	150	.7	2.3	105	357	462	136	462
	12-21-71		7.4										
ST6-G	10-18-71	81	7.0		22		.1		70	130	126	130	126
	12-02-71		7.3										
ST6-H	10-18-71		6.6		20		17		60			160	
ST6-I	10-18-71	.1	7.2		44		.1		175	290	.2	290	.2
	12-02-71		7.2										
ST6-J	10-18-71	5	5.0		30	3.6	.1	.3	100	140	16	140	3
	12-03-71		7.3										
ST6-K	10-18-71	.1	3.5		4		.8		140	190	.2	190	.2
	12-02-71		5.6										
ST6-L	10-18-71	67	7.5		88	19	.1	.1	105	220	68	220	109
	12-13-71		7.4										
ST6-M	10-18-71		7.2		40		.1		110			200	

WATER SAMPLING DATA COWANSHANNOCK CREEK WATERSHED SL-159

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST6-N	10-18-71		6.7			66		.1		170		290	
ST6-O	10-18-71		7.4			38		.1		120		190	
ST6-P	10-18-71		6.3			36		6.5		120		170	
ST6-Q	10-18-71		7.3			38		.1		44		90	
ST6-R	10-18-71		7.7			50		.1		85		150	
ST6-S	07-16-71 12-21-71	100 1075	7.1 7.5			42 12	50 155	.1 .1	.1 1.3	50 30	60 387	86 44	103 568
ST6-T	10-27-71 12-03-71	392	7.7 7.6			60 22	103	.3 .3	1.4 1.4	24 40	188	160 90	423
ST6-U	10-27-71 12-03-71	67	7.2 7.2			16 20	16	1.4 2.1	1.7	30 110	88	90 28	22
ST6-V	10-27-71 12-03-71	90	7.3 7.5			24 10	11	.5 .1	.1	38 30	32	120 46	50
ST6-W	10-27-71 12-03-71	462	6.8 7.3			18 10	56	1.4 .5	2.8	38 38	213	110 50	280
ST6-X	10-27-71		7.5			20		.3		34		100	

WATER SAMPLING DATA COWANSHANNOCK CREEK WATERSHED SL-159

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST6-Y	07-16-71	31	7.0	34	13	1.4	13	1.4	.5	30	11	102	38
	12-21-71	144	6.7	12	21	1.8	21	1.8	3.1	100	17	48	83
ST6-1	07-16-71	33	7.2	26	10	.1	10	.1	.1	110	44	140	56
	11-05-71	112	7.7	26	35	.1	35	.1	.1	100	135	280	378
ST6-1-A	10-19-71		6.2	18		8				42		110	
	12-09-71	2270	7.2	18	491	1.8	491	1.8	49	48	1310	120	3276
ST6-1-B	10-19-71		6.5	24		1.3				24		130	
	12-09-71	85	7.2	14	14	5.8	14	5.8	5.8	30	30	52	52
ST6-1-C	10-19-71		7.5	12		.1				28		76	
	12-09-71	650	7.3	14	109	.1	109	.1	.8	24	187	44	343
ST6-2	07-16-71	141	7.3	140	238	1.5	238	1.5	2.6	58	99	110	187
	11-05-71	1122	7.9	30	405	.2	405	.2	2.7	70	945	110	1485
	12-21-71	1930	7.1	20	464	.2	464	.2	4.6	40	928	80	1856
ST6-2-A	07-16-71	85	7.5	56	57	.4	57	.4	.4	80	82	142	145
	12-21-71	1710	7.5	16	330	.2	330	.2	4.1	24	494	120	2472
ST6-2-B	10-27-71		6.8	44		.1				75		160	
	12-13-71	1737	7.3	28	585	.1	585	.1	2.1	60	1254	76	1588
ST6-2-C	10-27-71		5.8	10		1				28		56	
	12-08-71	157	6.3	8	15	1.3	15	1.3	2.5	38	72	36	68

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO ₄	ppd SO ₄	ppm HDN	ppd HDN
ST6-2-D	10-27-71	81	7.2	26		42.5		95		130		130	
	12-08-71		7.3	38	37	.9	85	82	120	116			
ST6-2-E	10-27-71	579	6.6	40		.1		95		130		130	
	12-13-71		7.4	30	208	.1	60	417	80	556			
ST6-2-F	07-16-71	25	6.9	18		5.4		74		108		108	32
	12-21-71	215	7.0	18		47	1.3	24	62	32	83		
ST6-3	07-16-71	19	7.3	30		6.8		130		164		164	37
	11-05-71	21	6.8	30		7.6	.1	85	21	120		120	30
ST6-3-A	11-04-71		6.4	40			.2	160		160			
ST6-3-B	11-04-71		6.6	40			.3	155		130			
ST6-3-C	11-04-71	157	6.1			.9		195		330		330	
	12-08-71		5.0	9.4	1.3	2.5	195	371	280	532			
ST6-3-D	10-26-71	157	6.7	16		3.6		48		230		230	
	12-08-71		6.7	6	11	.5	.9	44	83	113			
ST6-3-E	12-08-71	260	6.9	20		62	.1	85		100		100	310
ST-7	07-16-71	309	4.8	2		7.4	.4	140		276		276	1021
	08-31-71	964	4.7*	20*		232*	10.5*	235*		362*		362*	4199
	10-07-71	1261	6.3	4		60	1	150		180		180	2718
	11-05-71	720	6.0	10*		87*	.1	170		250		250	2175
	11-09-71	566	5.0			2	.3	145		300		300	2040
12-23-71	5160*	6.0			2	124*	100		168		168	10416*	
Average		1497	5.5	4		39.9	2.4	157		256		256	3762

ALW

WATER SAMPLING DATA

COWANSHANNOCK CREEK WATERSHED

SLJ-159

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST7-A	11-04-71		6.8			58		3.1		135		240	
ST7-B	11-04-71		7.4			58		2.7		160		190	
	12-13-71	24378	7.0			28	8204	.1	29	85	24905	76	24378
ST7-C	08-31-71	112	3.5	172	231			10	13	600	804	522	699
	10-07-71	202	3.9	50	121			1.4	3.4	225	545	280	678
	12-22-71	157	4.0	44	.83			3.3	6.2	175	329	224	421
ST7-D	08-31-71	21	7.0			40	10	.1		30	7.5	54	13
ST7-E	08-31-71	14	7.3			46	7.7	.1		85	14	140	24
ST7-F	08-31-71	4.4	2.8	100	5.3			11.1	.6	1050	56	820	43
	12-22-71	3.6	3.5			46	2	.6		290	12	344	15
ST7-G	08-30-71	3	2.3	1700	61			3.7		2800	101	1200	43
	10-07-71	32	2.9	180	69			9	3.5	1100	423	490	188
	11-08-71	11	2.7	110	14			270	36	1300	172	830	110
	12-22-71	29	2.5	220	77			24	8.4	525	183	336	117
ST7-H	08-31-71	17	3.5	188	38			.4	.1	420	84	480	96
	10-07-71	47	2.8	160	90			6	3.4	700	392	680	381
	11-08-71	4	3.0	180	8.7			31	1.5	700	34	470	23
	12-22-71	29	2.7	130	47			4	1.4	600	216	560	202
ST7-I	12-08-71	43	7.3			26	14	3	1.6	85	44	110	57

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST7-J	07-16-71	482	6.8			52	299	19	110	48	276	56	322
	08-21-71	229	6.0			22	60	10.5	29	225	618	170	466
	10-07-71	408	4.4	54	265			2.2	11	235	1151	230	1127
	11-09-71	496	4.6	13	77			.1	.6	260	1546	340	2020
	12-23-71	875	4.6	38	398			3.6	38	155	1628	204	2140
ST7-K	08-30-71	9	5.4					1.3	.1	85	8.5	110	11
	10-07-71	10	6.7			28	3.4	.5	.1	70	8.4	114	14
	12-22-71	43	6.2			6	3	11	5.5	280	140	350	175
ST7-M	08-30-71	18	7.1			24	5.2	1.8	.4	105	23	220	48
	11-08-71	5	6.2			32	1.9	.1	.1	95	5.7	230	14
	12-22-71	170	7.5			24	49	.2	.4	75	153	152	310
ST7-N	08-30-71	37	6.8			32	14	.4	.2	85	37	150	66
	10-07-71	10	6.4			48	5.8	.9	.1	70	8.4	140	17
	11-08-71	6	6.3			60	4.3	1.3	.1	130	9.4	200	14
	12-22-71	12	7.4			36	5.2	.1	.1	50	7.2	136	20
ST7-O	08-30-71	35	4.1	120	50			.1	.1	110	46	120	50
	10-07-71	67	4.2	18	14			1.1	.9	135	108	140	112
	11-08-71	92	4.3	20	22			3.5	3.9	185	204	200	220
	12-22-71	81	4.0	18	17			1.3	1.2	100	96	148	142
ST7-P	08-30-71	1	2.5	1900	23			410	4.9	3900	47	2000	24
	10-07-71	4	7.8			190	9.1	100	4.8	1100	53	730	35
	11-08-71	4	3.6	108	5.2			72.5	3.5	1900	91	910	44
	12-22-71	25	2.5	100	30			29	8.7	950	285	820	246
ST7-Q	08-30-71	37	5.9			40	18	.3	.1	95	43	80	36
	12-22-71	920	6.2			6	67	6.5	72	60	67	116	129

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST7-R	08-30-71	5	3.1	78	4.7			3.8	.2	525	32	280	17
	10-07-71	25	3.2	36	11			3	.9	350	105	190	57
	11-08-71	47	2.9	100	56			4.3	2.4	525	294	340	190
	12-22-71	63	3.2	36	27			5.5	4.2	200	152	200	152
ST7-S	08-30-71	4	6.3			14		.3		48	2.3	70	3.4
	12-22-71	72	6.7			18	16	.3	.3	38	33	48	41
ST7-T	08-30-71	172	3.7	68	140			.5	1	300	618	68	140
	10-07-71	247	4.2	90	270			4	12	290	870	280	840
	11-08-71	90	4.1	120	130			15.4	17	480	518	520	562
	12-22-71	1220	4.1			28	110	3.4	13	260	1024	310	1220
ST7-U	08-30-71	3	2.7	450	16			475	17	1450	52	84	3
	10-07-71	21	6.3			16	4	3	.8	24	6	36	9
	11-08-71	1.3	6.4			30	.4	1.3		28	.4	120	1.8
	12-22-71	13	7.1			10	1.6	.5	.1	40	6.2	44	6.9
ST7-V	08-30-71	27	6.1			24	7.7	2.6	.8	28	9	48	15
	10-07-71	67	2.8	500	400			37.5	30	1050	840	440	352
	11-08-71	21	2.9	700	175			26	6.5	1950	488	720	180
	12-22-71	90	2.6	110	119			9.5	10	550	594	320	346
ST7-W	08-30-71	9	3.5	280	30			5.5	.6	950	103	120	13
	12-22-71												
ST7-X	08-30-71	16	3.1	100	19			26	5	475	91	60	12
	10-07-71	6	2.5	2900	208			450	32	500	36	680	49
	11-08-71	1	2.6	4400	53			1800	22	17000	204	3200	38
	12-22-71	21	2.1	1200	300			190	48	2100	525	760	190

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST7-Y	08-30-71	17	2.5	5700	1140			50	10	7000	1400	1420	28
	10-07-71	1	2.4	7800	94			1100	13	11200	134	2600	31
	11-08-71	4	2.6	900	43			550	26	30000	1440	1200	58
	12-22-71	3.6	2.2	4550	196			775	33	24000	1032	1700	73
1ST7-A	08-31-71	83	6.7			30	30	10	10	38	38	88	88
	12-22-71	157	6.5			20	38	.4	.8	30	57	80	152
1ST7-B	08-31-71	32	6.8			12	4.4	3.3	1.2	38	14	32	12
	10-07-71	67	2.7	150	120			18	14	550	440	640	512
	11-08-71	25	2.8	120	36			52.5	16	950	285	530	159
	12-22-71	29	2.6	120	42			8.5	3	525	184	380	133
1ST7-C	12-23-71	224	7.5			20	54	.7	1.9	38	103	64	173
1ST7-D	08-31-71	130	6.7			96	150	11.5	18	60	94	150	234
	10-07-71	202	6.5			24	58	.4	1	28	67	88	211
	11-08-71	21	6.2			28	7	2.7	.7	42	11	150	38
	12-22-71	336	6.8			40	160	1.8	7.2	24	96	56	224
1ST7-E	08-31-71	52	2.8	200	124	10	5.6	13	8.1	600	372	580	360
	12-23-71	47	7.0					3.5	2	24	13	60	34
1ST7-F	12-23-71	1	7.1			6	.1	.3	.3	34	.4	60	.7
1ST7-G	12-23-71	3.6	7.3			10	.4	4.4	.2	30	1.3	96	4.1
1ST7-H	08-31-71	74	6.7			44	38	2.6	2.3	48	42	92	80
	12-22-71	135	7.0			12	19	.7	1.1	22	36	44	71

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WATER SAMPLING DATA

Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
1ST7-J	08-31-71	12	7.1			46	6.4	100	14	44	6.2	60	8.4
	12-22-71	6	6.8			34	2.4	.1		28	2	80	5.6
1ST7-K	12-23-71	1	7.2			28		.1		28		84	
ST8	07-16-71	NO FLOW											
	11-09-71	1	5.8			36	.4	.6		28	.3	100	1.2
	12-21-71	562	7.4			18	121	.3	2	18	121	80	540
ST8-A	12-21-71	328	7.3			16	63	.3	1.2	18	71	36	142
ST8-B	12-21-71	134	7.5			24	38	1.2	1.9	28	45	52	83
ST8-1-A	01-15-72	14	6.4			4	.7	.1		22	3.7	160	27
ST8-2-A	01-15-72	.2	3.1	36				.1		85		140	
ST8-3-A	01-15-72	67	3.3	210	168			.4	.3	350	280	370	296
ST9	07-16-71	NO FLOW											
	11-05-71	1	7.0			38	.5	2.2		30	.4	120	1.4
	12-16-71	338	7.3			24	98	.4	2	38	156	40	164
ST10	07-16-71	9	6.3			16	17	3.9	4.2	24	26	44	47
	11-05-71	NO FLOW							.9	44	79	36	65
	12-16-71	152	7.2			18	32	.5					

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST11	07-16-71	NO FLOW											
	11-05-71	1	6.4			20	27	2.2	1.3	40	.5	120	1.4
	12-16-71	157	7.2			14	27	.7	1.3	40	76	.64	122
ST12	07-16-71	NO FLOW											
	11-05-71	NO FLOW											
	12-16-71	90	6.8			16	17	.1	.1	38	41	36	39
ST13	07-16-71	NO FLOW											
	11-05-71	NO FLOW											
	12-16-71	90	7.1			10	11	.7	.7	42	45	56	60
ST14	07-16-71	NO FLOW											
	11-05-71	NO FLOW											
	12-16-71	175	7.6			18	38	.5	1	48	101	76	160
ST15	07-16-71	NO FLOW											
	11-05-71	NO FLOW											
	12-16-71	453	7.1			18	98	.1	.5	38	206	36	196
ST16	07-16-71	NO FLOW											
	11-05-71	NO FLOW											
	12-16-71	39	7.0			6	2.8	.4	.2	30	14	28	13
ST17	07-16-71	NO FLOW											
	11-05-71	NO FLOW											
	12-16-71	76	7.2			20	18	.4	.4	48	44	40	36
ST18	07-16-71	NO FLOW											
	12-16-71	85	8.4			38	39	.1	.1	40	41	88	90

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Sta	Date	GPM	pH	ppm ACD	ppd ACD	ppm ALK	ppd ALK	ppm T.Fe	ppd T.Fe	ppm SO4	ppd SO4	ppm HDN	ppd HDN
ST19	07-16-71	NO FLOW											
	12-16-71	157	7.3			20	30	.1	.2	38	72	36	68
ST20	07-16-71	NO FLOW											
	12-16-71	67	7.0			12	9.6	2.5	2	42	34	32	26
ST21	07-16-71	NO FLOW											
	12-16-71	41	7.0			20	10	1.2	.6	7.5	3.8	80	40
3PS2	04-21-72	40	6.6			22	11	.27	.13	148	70	168	80
	05-30-72	.7	6.5	1				3.60	.03	246	2	288	2
	06-29-72	5.4	6.6	8	.5			.52	.03	90	6	132	9
	07-28-72	8.6	6.6			12	1.2	.41	.04	240	25	224	23
8PS1	06-29-72	8.6	6.7			17	1.8	.78	.08	138	14	200	21
	07-28-72	.7	6.8			30	.3	2.18	.02	184	1.5	236	1.