

# **APPENDIX B**

## **PHASE I SAMPLING STATIONS (Grab Samples)**

LOYALSOCK CREEK ACID MINE DRAINAGE STUDY

DATE	FLOW (CFS)	FLOW (MGD)	PH	ACIDITY MG/L	LB/DAY	ALKALINITY MG/L	LB/DAY	TOTAL IRON MG/L	LB/DAY	FERROUS IRON MG/L	LB/DAY	SULFATES MG/L	LB/DAY
<u>Sampling Station No. 1 - Santee Creek</u>													
8/20/73	7.70	4.97	5.9	6	249.0	0	0	1.0	41.5	<.5	<20.8	5	207.5
<u>Sampling Station No. 2 - Loyalsock Creek</u>													
8/7/73	2.15	1.39	5.9	2	23.2	0	0	1.1	12.8	.5	5.8	14	162.6
8/20/73	6.06	3.92	5.7	14	457.5	0	0	.7	22.9	<.5	16.3	5	163.4
<u>Sampling Station No. 3 - Unnamed Creek</u>													
8/7/73	.42	.27	6.1	0	0	0	0	2.0	4.5	.9	2.0	5	11.3
8/20/73	.61	.39	6.1	4	13.2	0	0	1.3	4.3	.5	1.6	2	6.6
<u>Sampling Station No. 4 - Long Run Creek</u>													
8/7/73	.72	.46	6.5	0	0	0	0	.8	3.1	<.5	<1.9	14	54.3
8/20/73	.78	.50	5.8	4	16.7	0	0	.8	3.3	.6	2.5	2	8.4
<u>Sampling Station No. 5 - Pigeon Creek</u>													
8/7/73	1.75	1.13	6.2	4	37.6	0	0	.5	4.7	<.5	<4.7	10	94.1
8/20/73	1.75	1.13	5.8	3	28.2	0	0	.4	3.8	<.5	<4.7	2	18.8
<u>Sampling Station No. 6 - Lopez Creek</u>													
8/7/73	12.25	7.91	5.3	6	396.2	0	0	.5	33.0	<.5	<33.0	14	924.5
8/20/73	14.00	9.05	4.9	6	452.9	0	0	.5	37.7	<.5	<37.7	10	754.8
<u>Sampling Station No. 7 - Sherman Run</u>													
8/7/73	.59	.38	5.4	6	19.0	0	0	.4	1.3	<.4	<1.3	19	60.2
8/20/73	.84	.54	4.9	6	27.2	0	0	.4	1.8	<.4	<1.8	2	9.1
<u>Sampling Station No. 8 - B Vein Connell Tunnel</u>													
8/7/73	3.09	2.00	3.5	40	665.3	0	0	.9	15.0	.5	8.3	77	1280.8
8/20/73	3.71	2.39	3.6	36	719.2	0	0	.7	14.0	<.5	<10.0	74	1478.4

LOYALSOCK CREEK ACID MINE DRAINAGE STUDY

DATE	FLOW (CFS)	FLOW (MGD)	PH	ACIDITY		ALKALINITY		TOTAL IRON		FERROUS IRON		SULFATES	
				MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY
<u>Sampling Station No. 9 - C Vein Conne11 Tunnel</u>													
8/7/73	1.19	.77	3.3	96	614.8	0	0	1.2	7.7	.6	3.8	82	525.1
8/20/73	1.78	1.15	3.4	60	576.4	0	0	.9	8.6	.5	4.8	89	855.0
<u>Sampling Station No. 10 - Ellis Creek</u>													
8/8/73	1.87	1.21	5.8	2	20.2	0	0	.3	3.0	<.3	<3.0	5	50.4
8/21/73	1.56	1.01	5.7	4	33.6	0	0	.3	2.5	<.3	<2.5	2	16.8
<u>Sampling Station No. 11 - Unnamed Creek</u>													
8/8/73	.76	.49	4.4	6	24.4	0	0	.4	1.6	<.4	<1.6	10	40.7
8/21/73	.95	.61	4.6	8	41.0	0	0	.3	1.5	<.3	<1.5	2	10.2
<u>Sampling Station No. 12 - Unnamed Creek</u>													
8/8/73	.11	.07	4.2	18	10.2	0	0	.9	.5	<.5	<.3	170	96.7
8/20/73	.27	.17	4.5	16	23.1	0	0	.4	.6	<.4	<.6	110	158.5
<u>Sampling Station No. 13 - Unnamed Creek</u>													
8/20/73	.07	.04	4.6	8	3.0	0	0	.4	.1	<.4	<.1	5	1.9
<u>Sampling Station No. 14 - Glass Creek</u>													
8/10/73	2.99	1.93	6.1	6	96.8	0	0	.7	11.3	<.5	<8.1	2	32.3
8/21/73	3.42	2.21	5.8	4	73.8	0	0	.4	7.4	<.4	<7.4	2	36.9
<u>Sampling Station No. 15 - Floodwood Creek</u>													
8/10/73	2.24	1.45	4.8	6	72.6	0	0	.8	9.7	<.5	<6.0	7	84.7
8/21/73	3.06	1.97	5.0	4	65.9	0	0	.4	6.6	<.4	<6.6	2	32.9
<u>Sampling Station No. 18 - Birch Creek</u>													
8/8/73	4.95	3.20	6.5	0	0	2	53.4	.9	24.0	<.5	13.4	14	373.8
8/21/73	5.23	3.38	6.6	0	0	0	0	.8	22.6	<.5	14.1	7	197.4

LOYALSOCK CREEK ACID MINE DRAINAGE STUDY

DATE	FLOW (CFS)	FLOW (MGD)	PH	ACIDITY		ALKALINITY		TOTAL IRON		FERROUS IRON		SULFATES	
				MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY
<u>Sampling Station No. 19 - Unnamed Creek</u>													
8/8/73	.72	.46	6.6	0	0	4	15.5	.9	3.5	.5	1.9	10	38.8
8/21/73	.87	.56	6.7	0	0	4	18.9	.7	3.3	<.5	<2.4	5	23.6
<u>Sampling Station No. 20 - Rock Run</u>													
8/8/73	.95	.61	6.4	0	0	4	20.5	.9	4.6	.5	2.6	24	123.0
8/21/73	.81	.52	6.6	0	0	0	0	.8	3.5	<.5	<2.2	7	30.5
<u>Sampling Station No. 21 - Birch Creek</u>													
8/8/73	7.68	4.96	6.4	0	0	4	165.5	.6	24.8	<.5	<20.7	19	786.2
8/21/73	8.34	5.39	6.7	0	0	6	269.7	.5	22.5	<.5	<22.5	5	224.8
<u>Sampling Station No. 22 - Loyalsock Creek</u>													
8/8/73	51.14	33.04	5.4	4	1,102.8	0	0	.4	110.3	<.4	<110.3	19	5,238.1
8/21/73	63.14	40.79	5.0	6	2,042.1	0	0	.4	136.1	<.4	<136.1	7	2,382.5
<u>Sampling Station No. 23 - Loyalsock Creek</u>													
8/8/73	58.82	38.00	6.3	0	0	2	634.1	.5	158.5	<.5	<158.5	14	4,439.0
8/21/73	71.33	46.08	6.6	0	0	0	0	.5	192.3	<.5	<192.3	10	3,845.5
<u>Sampling Station No. 24 - Dutchman Run</u>													
8/9/73	1.02	.66	5.2	4	22.0	0	0	.4	2.2	<.4	<2.2	10	55.0
8/22/73	.94	.61	4.0	4	20.2	0	0	.2	1.0	<.2	<1.0	2	10.1
<u>Sampling Station No. 25 - Unnamed Creek</u>													
8/9/73	.53	.35	5.5	4	11.5	0	0	.2	.6	<.2	<.6	5	14.4
8/22/73	.62	.40	5.5	6	20.2	0	0	.4	1.3	<.4	<1.3	5	16.8
<u>Sampling Station No. 26 - Mill Run</u>													
8/9/73	1.07	.69	6.2	4	23.1	0	0	.6	3.5	<.5	<2.9	10	57.6
8/22/73	1.43	.92	6.6	0	0	2	15.4	.6	4.6	<.5	<3.8	5	38.4

LOYALSOCK CREEK ACID MINE DRAINAGE STUDY

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				MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY

Sampling Station No. 27 - Unnamed Tributary of Loyalsock Creek

8/9/73	.04	.02	6.8	0	0	8	1.6	.1	0	<.1	<0	10	2.0
8/22/73	.24	.15	6.7	0	0	6	7.7	.1	.1	<.1	<.1	5	6.4

Sampling Station No. 28 - Bear Run

8/10/73	.13	.08	6.4	2	1.4	0	0	.2	.1	<.2	<.1	10	6.8
8/22/73	.22	.14	6.5	0	0	0	0	.2	.2	<.2	<.2	2	2.4

Sampling Station No. 30 - Mill Creek

8/9/73	5.01	3.24	6.6	0	0	0	0	.4	10.8	<.4	<10.8	4	108.0
8/22/73	5.08	3.28	6.7	0	0	0	0	.4	11.0	<.4	<11.0	5	136.9

Sampling Station No. 31 - Coal Run

8/10/73	.14	.09	6.2	0	0	0	0	.4	.3	<.4	<.3	5	3.6
8/22/73	.10	.06	6.1	0	0	0	0	.2	.1	<.2	<.1	5	2.6

Sampling Station No. 32 - Pole Bridge Run

8/9/73	1.66	1.07	6.1	0	0	0	0	.4	3.6	<.4	<3.6	10	89.7
8/22/73	1.87	1.21	6.0	2	20.2	0	0	.5	5.0	<.5	<5.0	5	50.4

Sampling Station No. 33 - Shanerbury Run

8/9/73	4.49	2.90	6.3	2	48.4	0	0	.3	7.3	<.3	<7.3	5	121.1
8/22/73	4.66	3.01	6.3	2	50.2	0	0	.3	7.5	<.3	<7.5	2	50.2

Sampling Station No. 34 - Tamarack Run

8/10/73	.59	.38	6.3	0	0	0	0	.3	1.0	<.3	<1.0	5	16.0
8/22/73	.64	.41	6.5	2	6.9	0	0	.3	1.0	<.3	<1.0	5	17.2

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<u>Sampling Station No. 35 - Unnamed Tributary of Loyalsock Creek</u>													
8/9/73	.66	.43	4.8	6	21.5	0	0	.3	1.1	<.3	<1.1	5	17.9
8/23/73	.90	.58	4.9	6	29.1	0	0	.1	.5	<.1	<.5	5	24.3
<u>Sampling Station No. 37 - Big Run</u>													
8/9/73	.48	.31	6.4	0	0	0	0	.2	.5	<.2	<.5	14	36.4
8/23/73	.80	.52	6.6	4	17.3	0	0	.2	.9	<.2	<.9	7	30.3
<u>Sampling Station No. 39 - Double Run</u>													
8/9/73	2.23	1.44	6.6	0	0	4	48.0	.2	2.4	<.2	<2.4	24	288.2
8/23/73	2.23	1.44	6.8	0	0	4	48.0	.2	2.4	<.2	<2.4	5	60.0
<u>Sampling Station No. 40 - High Rock Run</u>													
8/9/73	.28	.18	6.3	4	6.1	0	0	.3	.5	<.3	<.5	5	7.6
8/23/73	.32	.21	6.4	6	10.4	0	0	.4	.7	<.4	<.7	5	8.6
<u>Sampling Station No. 41 - Loyalsock Creek</u>													
8/9/73	119.43	77.15	6.5	0	0	0	0	.4	257.5	<.4	<257.5	10	6,438.2
8/23/73	142.29	91.92	6.6	4	3,068.3	0	0	.3	230.1	<.3	<230.1	5	3,835.4
<u>Sampling Station No. 42 - Scar Run</u>													
8/10/73	.68	.44	6.4	2	7.3	0	0	.3	1.1	<.3	<1.1	19	69.3
8/23/73	1.13	.73	6.7	0	0	2	12.2	.3	1.8	<.3	<1.8	7	42.6

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