

APPENDIX C

**PHASE II-III SAMPLING STATIONS
(Includes Continuous Flow Monitor Records)**

LOYALSOCK CREEK ACID MINE DRAINAGE STUDY

DATE	FLOW (CFS)	FLOW (MGD)	PH	ACIDITY		ALKALINITY		TOTAL MG/L	IRON LB/DAY	FERROUS MG/L	IRON LB/DAY	SULFATES	
				MG/L	LB/DAY	MG/L	LB/DAY					MG/L	LB/DAY
Sampling Station No. 1 - Santee Creek													
9/25/73	8.95	5.78	4.6	8	386.0	0	0	.5	24.1	<0.5	<24.1	7	337.7
10/15/73	4.21	2.72	5.2	6	136.2	2	45.4	.438	9.9	0	0	35	794.5
11/12/73	4.25	2.74	5.5	8	183.2	2	45.8	.146	3.3	0	0	20	457.9
1/16/74	FLOWS NOT DETERMINED		5.5	4	---	4	---	.146	---	0	---	7	---
2/22/74	FLOWS NOT DETERMINED		4.5	2	---	0	---	.292	---	0	---	250	---
3/18/74	7.95	5.13	4.1	4	171.4	0	0	0	0	0	0	40	1,713.5
4/24/74	8.50	5.49	5.0	4	183.4	4	183.4	.100	4.6	0	0	8	366.8
5/31/74	1.99	1.28	5.0	4	42.8	6	64.3	.5	5.4	0	0	35	374.8
6/27/74	6.14	3.97	4.9	8	264.9	4	132.4	.8	26.5	0	0	8	264.9
8/26/74	1.20	.78	6.3	6	38.9	10	64.8	1.1	7.1	0	0	225	1,457.0
9/24/74	15.22	9.83	4.9	4	328.2	2	164.1	.2	16.4	0	0	300	24,614.1
10/31/74	5.72	3.69	4.5	8	246.5	0	0	0	0	0	0	175	5,392.1
AVG.	6.41	4.14	---	5.5	200.0	2.8	70.0	.35	9.7	<.04	<2.4	92.5	3,577.3

51

Sampling Station No. 2 - Loyalsock Creek													
DATE	FLOW (CFS)	FLOW (MGD)	PH	ACIDITY MG/L	LB/DAY	ALKALINITY MG/L	LB/DAY	TOTAL MG/L	IRON LB/DAY	FERROUS MG/L	IRON LB/DAY	SULFATES MG/L	LB/DAY
9/25/73	4.73	3.05	5.5	5	127.5	0	0	.4	10.2	<.4	<10.2	2	51.0
10/15/73	1.40	.90	5.1	2	15.1	4	30.2	.438	3.3	0	0	30	226.3
11/12/73	2.80	1.81	5.7	8	120.8	2	30.2	.292	4.4	0	0	24	362.5
1/16/74	5.16	3.33	5.8	4	111.2	6	166.8	.292	8.1	0	0	7	194.6
2/22/74	8.69	5.61	4.9	4	187.3	4	187.3	.439	20.6	0	0	30	1,404.7
3/18/74	3.73	2.41	4.5	6	120.7	0	0	.476	9.6	0	0	30	603.6
4/24/74	4.99	3.23	5.1	4	107.7	4	107.7	.600	16.1	0	0	9	242.2
5/31/74	1.68	1.09	5.2	4	36.3	8	72.6	1.0	9.1	0	0	6	54.4
6/27/74	1.94	1.25	5.0	8	83.7	6	62.8	1.1	11.5	0	0	9	94.1
8/26/74	2.60	1.68	6.2	6	84.1	12	168.2	.400	5.6	0	0	225	3,154.1
9/24/74	5.36	3.46	5.4	6	173.2	6	173.2	.200	5.8	0	0	275	7,940.1
10/31/74	3.30	2.13	4.7	6	106.7	2	35.6	.100	1.8	0	0	225	4,002.7
AVG.	3.87	2.50	---	5.3	106.2	4.5	86.2	.478	8.8	<.03	<.85	72.7	1,527.5

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. 5 - Pigeon Creek</u>														
9/25/73	5.25	3.39	5.9	4	113.2	0	0	.2	5.7	<	.2	< 5.7	10	283.0
10/15/73	2.74	1.77	5.4	4	59.1	4	59.1	.292	4.3	0	0	0	35	517.4
11/12/73	4.63	2.99	6.2	4	99.8	4	99.8	.292	7.3	0	0	0	44	1,098.2
1/16/74	4.90	3.17	5.8	8	211.3	16	422.7	.146	3.9	0	0	0	8	211.3
2/22/74	12.03	7.77	4.4	4	259.4	0	0	0	0	0	0	0	11	713.3
3/18/74	4.35	2.81	4.6	4	93.9	2	46.9	1.190	27.9	0	0	0	40	938.6
4/24/74	6.53	4.22	5.5	2	70.4	8	281.8	0	0	0	0	0	8	281.8
5/31/74	2.28	1.47	5.5	4	49.2	8	98.3	.3	3.7	0	0	0	6	73.8
6/27/74	2.94	1.90	5.2	4	63.3	8	126.7	.3	4.7	0	0	0	9	142.5
8/26/74	.60	.39	6.6	4	13.0	20	65.1	0	0	0	0	0	250	813.9
9/24/74	7.78	5.02	5.4	6	251.6	4	167.7	.1	4.2	0	0	0	350	14,675.8
10/31/74	1.83	1.19	4.7	6	59.3	12	118.7	.6	5.9	0	0	0	200	1,978.2
AVG.	4.66	3.01	---	4.5	112.0	7.2	123.9	.285	5.6	<	.02	< .5	80.9	1,810.7

<u>Sampling Station No. 6 - Lopez Creek</u>														
9/25/73	11.72	7.57	5.3	6	379.2	0	0	.2	12.6	<	.2	< 12.6	2	126.4
10/15/73	8.09	5.23	4.7	2	87.2	2	87.2	.292	12.7	0	0	0	30	1,307.6
11/12/73	11.15	7.20	5.5	4	240.4	2	120.2	.292	17.5	0	0	0	36	2,163.4
1/16/74	15.84	10.23	3.8	14	1195.5	0	0	.292	24.9	0	0	0	11	939.3
2/22/74	49.50	31.98	4.2	2	533.7	0	0	1.047	279.4	0	0	0	9	2,401.6
3/18/74	17.37	11.22	4.1	4	374.6	0	0	5.476	512.8	1.120	104.9	0	45	4,214.1
4/24/74	14.83	9.58	4.8	4	319.7	2	159.9	.200	16.0	0	0	0	4	319.7
5/31/74	8.71	5.63	5.1	6	281.8	4	187.9	.3	14.1	0	0	0	6	281.8
6/27/74	4.09	2.64	4.0	10	220.2	0	0	.3	6.6	0	0	0	9	198.2
8/26/74	5.52	3.56	6.0	6	178.5	10	297.4	.3	8.9	0	0	0	300	8,923.4
9/24/74	14.99	9.68	5.1	6	484.7	4	323.1	0	0	0	0	0	275	22,215.5
10/31/74	8.40	5.43	4.5	4	181.2	0	0	0	0	0	0	0	100	4,529.3
AVG.	14.18	9.16	---	5.7	373.1	2	98.0	.725	75.5	<	.02	< 1.1	68.9	3,968.3

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
9/25/73	8.64	5.58	3.5	38	1769.5	0	0	.600	27.9	0.5	23.3	67	3,119.9
10/15/73	5.25	3.39	3.0	42	1188.2	0	0	.588	16.6	0	0	70	1,980.3
11/12/73	7.20	4.65	3.8	48	1862.6	0	0	.588	22.8	0	0	81	3,143.1
1/16/74	8.78	5.67	3.8	34	1608.7	0	0	.438	20.7	0	0	45	2,129.2
2/22/74	9.36	6.05	3.2	22	1110.7	0	0	.741	37.4	0	0	78	3,938.0
3/18/74	7.92	5.12	3.1	24	1025.4	0	0	.952	40.7	0	0	45	1,922.7
4/24/74	8.51	5.50	3.8	24	1101.5	0	0	.500	22.9	0	0	53	2,432.6
5/31/74	6.68	4.32	3.6	26	937.3	0	0	1.000	36.1	0	0	61	2,199.1
6/28/74	6.36	4.11	3.5	38	1303.3	0	0	.800	27.4	0	0	60	2,057.9
8/26/74	4.00	2.58	3.8	26	559.8	0	0	.700	15.1	0	0	200	4,306.0
9/24/74	7.00	4.52	3.7	62	2338.6	0	0	.300	11.3	0	0	300	11,315.8
10/31/74	4.31	2.79	3.3	22	512.2	0	0	.600	14.0	0	0	275	6,402.7

FT

Sampling Station No. 8 - B Vein Connell Discharge Tunnel - Continuous Flow Monitor Used

1/13/76	1.75	1.13	4.0	40	377.2	0	0	0.6	5.6	0.5	4.7	65	612.9
1/30/76	10.55	6.82	3.9	34	1935.0	0	0	1.2	68.3	0.45	25.6	100	5,691.3
2/11/76	3.00	1.94	3.9	38	615.2	0	0	4.7	76.1	1.6	25.9	175	2,833.1
2/19/76	20.00	12.92	4.0	34	3665.8	0	0	0.4	43.1	0.1	10.8	80	8,625.4
2/25/76	14.50	9.37	4.0	48	3753.2	0	0	0.3	23.4	0	0	100	7,819.3
3/10/76	5.00	3.23	4.0	34	916.4	0	0	0.4	10.8	0.07	1.9	70	1,886.8
3/18/76	3.40	2.20	4.0	20	367.2	0	0	0.4	7.3	0.4	7.3	50	918.0
3/22/76	3.20	2.07	4.1	26	449.1	2	34.5	0.4	6.9	0	0	100	1,727.4
3/25/76	5.00	3.23	3.9	26	700.8	0	0	0.4	10.8	0.2	5.4	115	3,099.8
4/8/76	4.50	2.91	4.2	32	777.1	4	97.1	0.5	12.1	0.1	2.4	95	2,307.0
4/14/76	3.10	2.00	4.0	32	534.1	0	0	0.5	8.3	0.5	8.3	51	851.2
4/21/76	2.00	1.29	3.9	24	258.4	0	0	0.6	6.4	0.6	6.4	59	635.1
5/4/76	2.70	1.74	3.5	64	929.3	0	0	0.6	8.7	0.35	5.1	83	1,205.2
AVG.	6.51	4.20	---	34.3	1223.9	.24	5.3	0.752	23.2	0.21	5.1	99.1	3,326.4

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
Sampling Station No. 9 - C Vein Connell Discharge Tunnel - Phase III													
9/25/73	2.77	1.79	3.2	60	896.3	0	0	0.900	13.4	0.5	7.5	70	1,045.6
10/15/73	1.19	0.77	2.9	62	398.4	0	0	1.046	6.7	0	0	85	546.2
11/12/73	2.45	1.58	3.5	62	817.5	0	0	0.894	11.8	0	0	91	1,199.8
1/16/74	2.49	1.61	3.6	38	510.5	0	0	1.047	14.1	0	0	60	806.1
2/22/74	2.53	1.63	3.2	32	435.3	0	0	1.203	16.4	0	0	58	788.9
3/18/74	2.61	1.69	3.0	34	479.5	0	0	1.190	16.8	0	0	55	775.7
4/24/74	2.77	1.79	3.5	42	627.4	0	0	0.600	9.0	0	0	57	851.4
5/31/74	1.26	0.81	3.3	42	283.9	0	0	1.400	9.5	0	0	70	473.2
6/28/74	2.02	1.30	3.3	54	585.8	0	0	1.500	16.3	0	0	68	737.7
8/26/74	1.16	0.74	3.5	66	407.6	0	0	1.400	8.6	1.120	6.9	300	1,852.6
9/24/74	1.87	1.21	3.5	70	706.8	0	0	0.800	8.1	0	0	300	3,029.2
10/31/74	0.96	0.62	3.1	50	258.7	0	0	1.300	6.7	1.120	5.8	200	1,034.8

Sampling Station No. 9 - C Vein Connell Discharge Tunnel - Continuous Flow Monitor Used

1/13/76	0.85	0.55	3.8	64	293.7	0	0	1.0	4.6	0.6	2.8	73	335.0
1/30/76	3.75	2.42	3.5	52	1050.1	0	0	2.3	46.4	0.75	15.1	95	1,918.5
2/11/76	0.92	0.59	3.5	52	256.0	0	0	6.4	31.5	5.2	25.6	135	664.7
2/19/76	6.00	3.88	3.8	44	1424.6	0	0	0.6	19.4	0.07	2.3	90	2,914.1
2/25/76	4.85	3.13	3.9	42	1097.0	0	0	0.5	13.1	0.1	2.6	98	2,559.7
3/10/76	2.20	1.42	3.7	44	521.4	0	0	0.7	8.3	0.07	.8	80	948.0
3/18/76	1.60	1.03	3.8	34	292.2	0	0	0.7	6.0	0.45	3.9	58	498.5
3/22/76	1.92	1.24	3.9	40	413.9	0	0	0.7	7.2	0	0	85	879.6
3/25/76	2.25	1.45	3.7	42	508.2	0	0	0.6	7.3	0.35	4.2	95	1,149.5
4/8/76	1.80	1.16	3.8	44	425.9	0	0	0.7	6.8	0.05	.5	108	1,045.5
4/14/76	1.08	0.70	3.8	40	233.7	0	0	0.8	4.7	0.3	1.8	62	362.2
4/21/76	0.78	0.50	3.6	38	158.6	0	0	1.1	4.6	0.6	2.5	77	321.3
5/4/76	0.60	0.39	3.8	36	117.2	0	0	0.9	2.9	0.35	1.1	95	309.2
AVG.	2.11	1.36	---	47	528.0	0	0	1.211	12.0	0.465	3.3	102.6	1,081.9

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

Sampling Station No. 12 - Unnamed Tributary of Loyalsock Creek

9/26/73	.11	.07	4.6	10	5.9	0	0	.5	.3	<.5	<.3	100	58.7
10/16/73	.01	0	3.9	8	.3	0	0	.146	5.2	0	0	85	3.0
11/13/73	.04	.03	4.9	4	.9	2	.4	.292	.1	0	0	44	9.4
1/17/74	.13	.09	5.4	2	1.4	4	2.8	.438	.3	0	0	74	52.7
2/26/74	.18	.12	4.5	6	6.0	0	0	.146	.1	0	0	70	69.7
3/19/74	.09	.06	5.0	6	2.9	2	1.0	2.381	1.1	0	0	85	40.8
4/25/74	.09	.06	5.2	2	1.0	6	2.9	.200	.1	0	0	95	45.6
5/31/74	.02	.01	4.3	10	10.0	0	0	2.0	.2	0	0	120	10.7
6/28/74	0	0	4.4	4	0	0	0	1.2	0	0	0	115	.8
8/27/74	NEGLIGIBLE	NEGLIGIBLE	4.5	8	---	0	---	1.5	---	0	0	225	---
9/25/74	.10	.07	5.7	8	4.4	6	3.3	0	0	0	0	300	165.4
AVG.	.08	.05	---	6.2	3.3	1.8	1.0	.8	.7	<.05	<.03	119.4	45.7

Sampling Station No. 13 - Unnamed Tributary of Loyalsock Creek

9/26/73	.04	.02	4.5	6	1.2	0	0	.4	.1	<.4	<.1	2	.4
10/16/73	0	0	4.1	4	.1	0	0	.292	0	0	0	0	0
11/13/73	.02	.01	4.6	12	1.1	2	.2	.292	0	0	0	41	3.6
1/17/74	.03	.02	4.7	4	.6	2	.3	.292	0	0	0	7	1.0
2/26/74	.04	.03	4.0	4	.9	0	0	.146	0	0	0	11	2.5
3/19/74	.03	.02	4.0	4	.7	0	0	0	0	0	0	35	6.2
4/25/74	.03	.02	4.5	2	.3	0	0	.500	.1	0	0	11	11.0
5/31/74	FLOW NEGLIGIBLE	FLOW NEGLIGIBLE	4.3	8	---	0	---	1.1	---	0	0	11	---
6/28/74	FLOW NEGLIGIBLE	FLOW NEGLIGIBLE	4.1	8	---	0	---	3.4	---	0	0	11	---
9/25/74	.04	.03	4.5	6	1.3	0	0	0	0	0	0	275	58.7
10/31/74	FLOW NEGLIGIBLE	FLOW NEGLIGIBLE	3.9	6	---	0	---	.5	---	0	0	175	---
AVG.	.03	.02	---	5.8	.8	.4	.06	.629	.03	<.04	<.01	52.6	10.4

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
Sampling Station No. 18 - Birch Creek													
9/25/73	7.16	4.63	6.2	4	154.5	0	0	.5	19.3	< .5	< 19.3	2	77.2
10/15/73	3.77	2.43	6.0	2	40.6	12	243.6	.438	8.9	0	0	20	406.0
11/12/73	5.26	3.40	6.4	2	56.7	10	283.6	.292	8.3	0	0	5	141.8
1/16/74	6.19	4.00	6.4	2	66.7	10	333.6	.292	9.7	0	0	9	300.2
2/22/74	24.24	15.65	5.3	8	1045.3	8	1045.3	2.346	306.5	0	0	13	1,698.7
3/18/74	6.31	4.07	4.6	4	136.0	2	68.0	1.905	64.8	0	0	35	1,189.9
4/24/74	6.78	4.38	5.6	2	73.1	12	438.5	.200	7.3	0	0	6	219.2
5/31/74	3.47	2.24	5.9	4	74.7	18	336.2	.6	11.2	0	0	12	224.2
6/28/74	1.56	1.01	5.2	4	33.7	22	185.5	1.0	8.4	0	0	9	75.9
8/26/74	1.31	.85	6.9	4	28.3	34	240.1	.1	.7	0	0	200	1,412.5
9/24/74	6.93	4.48	6.1	4	149.4	10	373.6	.2	7.5	0	0	275	10,273.7
10/31/74	2.93	1.89	5.1	4	63.2	14	221.2	.6	9.5	0	0	100	1,579.7
AVG.	6.33	4.09	---	3.7	160.2	12.7	314.1	.706	38.5	<.04	<1.6	57.2	1,466.6

Sampling Station No. 19 - Unnamed Tributary of Birch Creek

9/25/73	1.34	.86	6.5	0	0	0	0	.5	3.6	< .5	< 3.6	2	14.4
10/15/73	.62	.40	6.1	2	6.7	14	46.6	.438	1.5	0	0	35	116.4
11/12/73	.80	.52	6.6	4	17.3	12	51.9	.292	1.3	0	0	24	103.8
1/16/74	1.34	.86	6.5	4	28.8	16	115.3	.438	3.2	0	0	9	64.8
2/22/74	4.99	3.22	5.1	6	161.4	4	107.6	2.010	54.1	0	0	9	242.1
3/18/74	1.20	.77	4.9	4	25.8	6	38.7	1.667	10.8	0	0	60	387.5
4/24/74	1.14	.74	5.8	2	12.3	14	86.2	.100	.6	0	0	11	67.7
5/31/74	.38	.25	6.1	6	12.3	22	45.0	.7	1.4	0	0	8	16.4
6/28/74	.25	.16	5.3	6	8.0	30	40.0	.6	.8	0	0	12	16.0
8/26/74	.02	.01	6.7	4	.5	36	4.5	.7	.1	0	0	275	34.2
9/24/74	.95	.61	6.3	2	10.2	12	61.3	.1	.5	0	0	250	1,276.4
10/31/74	.49	.32	5.3	4	10.6	8	21.2	.8	2.1	0	0	175	463.9
AVG.	1.13	.73	---	3.7	24.5	14.5	51.5	.695	6.7	<.04	<.3	72.5	233.6

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

Sampling Station No. 21 - Birch Creek (Above Confluence with Loyalsock Creek)

9/25/73	9.08	5.87	6.6	0	0	0	0	.3	14.7	<0.3	<14.7	2	97.9
10/15/73	5.52	3.57	6.2	2	59.6	12	357.4	.146	4.3	0	0	20	595.6
10/15/73	5.52	3.57	6.2	2	59.6	12	357.4	.292	8.7	0	0	20	595.6
11/12/73	6.22	4.02	6.6	4	134.1	8	268.2	.292	9.8	0	0	31	1,039.0
1/16/74	9.03	5.83	6.3	4	194.8	12	584.3	.146	7.1	0	0	12	584.3
2/22/74	32.76	21.16	5.3	4	706.3	8	1,412.7	2.176	384.2	0	0	11	1,942.4
3/18/74	8.64	5.58	5.1	2	93.1	6	279.4	3.571	166.3	0	0	35	1,630.1
4/24/74	9.72	6.28	5.8	4	209.6	14	733.5	.200	10.5	0	0	10	523.9
5/31/74	3.38	2.18	6.2	6	109.2	20	364.0	.400	7.3	0	0	10	182.0
6/27/74	5.53	3.57	5.5	4	119.3	24	715.6	.500	14.9	0	0	10	298.2
8/26/74	1.40	.91	6.7	4	30.2	28	211.7	0	0	0	0	175	1,323.1
9/24/74	5.76	3.72	6.3	2	62.0	12	372.3	.100	3.1	0	0	250	7,756.4
11/1/74	5.59	3.61	5.0	2	60.3	10	301.5	.100	3.0	0	0	225	6,784.6
AVG.	8.32	5.37	---	3.1	141.4	12.8	433.1	.633	48.8	<.02	<1.1	62.4	1,796.4

Sampling Station No. 22 - Loyalsock Creek (Above Confluence of Birch Creek)

9/25/73	83.43	53.90	5.0	5	2,248.8	0	0	.2	90.0	<0.2	<90.0	2	899.5
10/15/73	57.10	36.88	5.5	2	615.6	4	1,231.2	.146	44.9	0	0	20	6,156.0
10/15/73	57.10	36.88	5.5	2	615.6	4	1,231.2	.146	44.9	0	0	20	6,156.0
11/12/73	77.72	50.20	5.7	4	1,675.8	4	1,675.8	0	0	0	0	31	12,987.5
1/16/74	80.54	52.03	5.3	4	1,736.7	6	2,605.1	.146	63.4	0	0	6	2,605.1
2/22/74	304.06	196.42	4.6	4	6,556.5	2	3,278.2	2.010	3,294.6	0	0	10	16,391.2
3/18/74	63.01	40.71	4.3	4	1,358.8	0	0	5.952	2,021.9	0	0	9	3,057.3
4/24/74	84.02	54.28	5.2	2	905.9	6	2,717.6	.100	45.3	0	0	6	2,717.6
5/31/74	48.27	31.18	5.0	6	1,561.4	4	1,040.9	.500	130.1	0	0	9	2,342.1
6/27/74	38.77	25.04	5.3	4	836.0	10	2,090.0	.300	62.7	0	0	7	1,463.0
8/26/74	20.10	12.98	5.7	8	866.7	12	1,300.1	.100	10.8	0	0	300	32,502.1
9/24/74	68.10	43.99	5.3	4	1,468.4	6	2,202.7	.100	36.7	0	0	225	82,600.2
11/1/74	26.61	17.19	4.7	2	286.9	6	860.7	0	0	0	0	175	25,105.1
AVG.	77.60	50.13	---	3.9	1,594.9	4.9	1,556.4	.746	449.6	<.02	<6.9	63.1	14,998.7

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
Sampling Station No. 23 - Loyalsock Creek (Below Confluence of Birch Creek)													
9/25/73	92.51	59.76	5.8	5	2,493.6	0	0	.3	149.6	< .3	< 149.6	96	47,877.2
10/15/73	62.62	40.45	5.5	2	675.2	4	1,350.3	.146	49.3	0	0	5	1,687.9
10/15/73	62.62	40.45	5.8	2	675.2	2	675.2	.146	49.3	0	0	5	1,687.9
11/12/73	83.93	54.22	4.7	8	3,619.7	2	904.9	.292	132.1	0	0	36	16,288.8
1/16/74	89.57	57.86	6.4	4	1,931.5	14	6,760.2	.146	70.5	0	0	11	5,311.6
2/22/74	336.81	217.58	4.5	6	10,894.2	0	0	1.681	3,052.2	0	0	9	16,341.3
3/18/74	71.65	46.29	4.0	4	1,545.1	0	0	3.333	1,287.4	0	0	11	4,249.0
4/24/74	93.74	60.55	5.6	4	2,021.3	4	2,021.3	.100	50.5	0	0	7	3,537.2
5/31/74	53.50	34.56	5.1	6	1,730.5	6	1,730.5	.500	144.2	0	0	11	3,172.5
6/27/74	44.30	28.62	5.3	4	955.2	8	1,910.5	.300	71.6	0	0	8	1,910.5
8/26/74	21.50	13.89	5.6	6	695.4	10	1,159.0	.100	11.6	0	0	150	17,385.2
9/24/74	77.01	49.75	5.0	4	1,660.6	4	1,660.6	.200	83.0	0	0	275	114,164.7
11/1/74	32.20	20.80	5.0	2	347.2	6	1,041.7	0	0	0	0	200	34,722.3
AVG.	86.31	55.75	---	4.4	2,249.6	4.6	1,478.0	.557	396.3	<.02	<11.5	63.4	20,641.2

Sampling Station No. 41 - Loyalsock Creek													
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
9/25/73	210.87	136.22	6.4	7	7,957.4	0	0	.2	227.4	< 0.2	< 227.4	7	7,957.4
10/15/73	91.48	59.09	6.2	2	986.3	4	1,972.6	.146	72.0	0	0	15	7,397.0
11/12/73	118.21	76.36	6.0	6	3,823.5	4	2,549.0	.292	186.1	0	0	46	29,313.5
1/16/74	179.76	116.13	4.2	56	54,268.8	0	0	.292	283.0	0	0	35	33,918.0
2/22/74	759.58	490.69	5.2	4	16,379.1	8	32,758.3	.894	3,660.7	0	0	8	32,758.3
3/18/74	193.69	125.12	4.7	4	4,176.6	2	2,088.3	0	0	0	0	8	8,353.1
4/24/74	225.97	145.98	5.8	2	2,436.3	8	9,745.3	.200	243.6	0	0	8	9,745.3
5/31/74	112.62	72.75	5.8	2	1,214.2	10	6,071.0	1.1	667.8	0	0	9	5,463.9
6/27/74	145.20	93.80	5.6	2	1,565.5	12	9,393.1	.1	78.3	0	0	8	6,262.0
8/26/74	42.87	27.69	6.8	4	924.4	8	1,848.7	0	0	0	0	200	46,218.1
9/24/74	233.70	150.97	6.1	2	2,519.7	6	7,559.0	0	0	0	0	250	314,956.3
11/1/74	70.48	45.53	5.1	4	1,519.8	4	1,519.8	0	0	0	0	300	113,981.5
AVG.	198.70	128.36	---	7.9	8,147.6	5.5	6,292.1	.269	451.6	<.02	<19.0	74.5	51,360.4

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
------	------------	------------	----	-----------------	--------	--------------------	--------	--------------------	--------	----------------------	--------	------------------	--------

Sampling Station No. 44 - Unnamed Tributary of Birch Creek

9/26/73	.25	.16	4.5	4	5.5	0	0	.2	.3	<.2	<.3	2	2.7
10/16/73	.08	.05	4.4	6	2.7	0	0	0	0	0	0	25	11.1
11/13/73	.13	.08	4.8	8	5.4	2	1.4	.146	.1	0	0	45	30.4
1/17/74	.19	.13	4.9	8	8.4	4	4.2	.146	.2	0	0	9	9.4
2/26/74	.38	.24	3.9	14	28.4	0	0	0	0	0	0	9	18.3
3/19/74	.17	.11	3.9	6	5.4	0	0	2.381	2.2	0	0	8	7.3
4/24/74	.20	.13	4.6	4	4.3	2	2.2	0	0	0	0	9	9.8
5/31/74	.09	.06	4.4	4	2.0	0	0	.2	.1	0	0	7	3.5
6/28/74	.06	.04	4.5	4	1.4	0	0	.2	.1	0	0	8	2.7
8/27/74	NEGLECTIBLE	NEGLECTIBLE	5.1	10	---	10	---	2.0	---	0	---	275	---
9/25/74	.25	.16	4.7	6	8.2	4	5.5	.3	.4	0	0	250	342.5
10/31/74	.07	.05	3.8	6	2.3	0	0	0	0	0	0	150	58.7
AVG.	.17	.11	---	6.7	6.7	1.8	1.2	.464	.3	<.02	<.03	66.4	45.1

Sampling Station No. 45 - Old Silt Dam

9/26/73	---	---	3.2	68	---	0	---	1.0	---	.9	---	110	---
10/16/73	---	---	2.9	68	---	0	---	1.046	---	0	---	105	---
11/13/73	---	---	3.5	46	---	0	---	.741	---	0	---	96	---
1/17/74	---	---	3.8	46	---	0	---	.588	---	0	---	60	---
2/26/74	---	---	3.2	44	---	0	---	.292	---	0	---	77	---
3/19/74	---	---	3.1	46	---	0	---	3.333	---	0	---	70	---
4/25/74	---	---	3.6	44	---	0	---	.400	---	0	---	79	---
5/31/74	---	---	3.4	56	---	0	---	1.6	---	0	---	81	---
6/28/74	---	---	3.2	58	---	0	---	1.3	---	0	---	83	---
8/27/74	---	---	3.4	72	---	0	---	1.8	---	0	---	225	---
9/25/74	---	---	3.5	68	---	0	---	.5	---	0	---	300	---
11/1/74	---	---	2.9	11,000	---	0	---	.8	---	0	---	150	---
AVG.	---	---	---	968.0	---	0	---	1.117	---	.08	---	119.7	---

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
Sampling Station No. 46 - Abandoned Strip Mine Pool													
9/26/73	---	---	3.7	22	---	0	---	.3	---	<	.3	---	55
10/16/73	---	---	3.3	20	---	0	---	.292	---	---	0	---	65
11/13/73	---	---	3.9	24	---	0	---	.292	---	---	0	---	57
1/17/74	---	---	3.9	24	---	0	---	.438	---	---	0	---	53
2/26/74	---	---	3.7	18	---	0	---	.146	---	---	0	---	65
3/19/74	---	---	3.6	18	---	0	---	4.286	---	---	0	---	55
4/25/74	---	---	3.9	12	---	0	---	.200	---	---	0	---	51
5/31/74	---	---	3.8	20	---	0	---	.5	---	---	0	---	58
6/28/74	---	---	4.0	22	---	0	---	.1	---	---	0	---	54
8/27/74	---	---	4.0	28	---	0	---	.3	---	---	0	---	275
9/25/74	---	---	3.8	30	---	0	---	0	---	---	0	---	275
11/1/74	---	---	3.4	18	---	0	---	.4	---	---	0	---	150
AVG.	---	---	---	21.3	---	0	---	.605	---	<.03	<.03	---	101.1

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
Sampling Station No. 47													
9/26/73	.12	.07	3.6	26	16.2	0	0	.2	.1	<	.2	<.1	5
10/16/73	.04	.03	3.2	24	5.1	0	0	.588	.1	0	0	0	55
11/13/73	.05	.03	3.7	26	6.5	0	0	.146	0	0	0	0	61
1/17/74	.10	.07	3.9	24	13.2	0	0	.438	.2	0	0	0	50
2/26/74	.20	.13	3.6	18	19.5	0	0	.146	.2	0	0	0	68
3/19/74	.11	.07	3.6	20	11.4	0	0	3.571	2.0	0	0	0	50
4/25/74	.14	.09	3.9	14	10.2	0	0	.200	.1	0	0	0	61
5/31/74	.03	.02	3.7	22	3.9	0	0	.6	.1	0	0	0	59
6/28/74	.04	.03	3.9	30	6.4	0	0	0	0	0	0	0	63
8/27/74	NEGLIGIBLE	---	4.0	30	---	0	---	.2	---	---	0	---	275
9/25/74	.09	.06	3.8	34	16.9	0	0	0	0	0	0	0	250
11/1/74	FLOW NOT DETERMINED	---	3.5	20	---	0	---	0	---	---	0	---	250
AVG.	.09	.06	---	24	10.9	0	0	.507	0.3	<.01	<.01	<.01	103.9
												35.3	

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)
9/26/73	.14	.09	3.5	32	23.3	0	0	10
10/16/73	.12	.08	---	---	---	8.624	7.3	7.2
11/13/76	.07	.05	3.6	58	22.6	10	3.9	5.600
1/17/74	.12	.07	3.6	36	22.4	5.355	3.3	6.9
2/26/74	.12	.08	3.2	28	17.9	8.890	5.7	0
3/19/74	.08	.05	3.4	44	19.6	2.381	1.1	7.840
4/25/74	.07	.04	3.5	42	15.7	6.700	2.5	4.480
5/31/74	.06	.04	3.3	30	9.6	7.0	2.2	3.36
6/28/74	.03	.02	3.6	34	4.8	10.9	1.6	2.24
8/27/74	.01	0	3.5	36	2.6	9.2	.7	7.84
9/25/74	.13	.08	3.5	34	23.6	9.9	8.9	3.36
11/1/74	FLOW NOT DETERMINED		3.0	300	---	5.5	---	3.36
AVG.	.07	.05	---	56.2	14.7	0	0	7.871
						3.9	4.4	2.1
						88.8		31.3

Sampling Station No. 50 - Discharge from Abandoned Strip

9/26/73	.04	.03	5.0	6	1.4	0	0	.2	0	< .2	< 0	17	3.9
10/16/74	0	0	4.7	4	.1	0	0	.146	0	0	0	0	0
11/13/73	.02	.01	5.3	8	.9	2	.2	.146	0	0	0	26	2.8
1/17/74	.02	.01	4.8	6	.6	2	.2	.588	.1	0	0	13	1.4
2/26/74	.08	.05	4.7	4	1.6	2	.8	.588	.2	0	0	33	13.5
3/19/74	.03	.02	4.9	4	.6	2	.3	3.810	.6	0	0	16	2.6
4/25/74	.03	.02	5.1	2	.3	6	1.0	.200	0	0	0	17	2.7
5/31/74	0	0	5.5	4	.1	8	.3	.9	0	0	0	13	.5
6/28/74	0	0	4.9	8	.1	6	.1	.2	0	0	0	18	.3
8/27/74	FLOW		6.0	8	---	16	---	.4	---	0	---	300	---
	NEGLECTIBLE												
9/25/74	.06	.04	4.8	14	4.2	4	1.2	0	0	0	0	200	60.5
11/1/74	FLOW		5.2	8	---	16	---	0	---	0	---	200	---
	NEGLECTIBLE												
AVG.	.02	.02	---	6.3	1.0	5.3	0.4	.598	.09	< .02	< 0	71.1	8.8

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
Sampling Station No. 51 - Surface Stream to Strip Pit													
9/26/73	.03	.02	4.9	9	1.3	0	0	.6	.1	<.5	<.1	2	.3
10/16/73	0	0	3.4	8	.3	0	0	.292	0	0	0	30	1.1
11/13/73	.03	.02	4.2	4	.6	0	0	.438	.1	0	0	31	5.0
1/17/74	FLOW NOT DETERMINED		4.5	8	---	0	---	.438	---	0	---	8	---
2/26/74	.07	.04	3.7	6	2.1	0	0	.146	.1	0	0	10	2.8
3/19/74	.04	.03	4.1	4	.9	0	0	8.095	1.9	0	0	10	2.3
4/25/74	.05	.03	4.3	4	1.0	0	0	.200	0	0	0	5	1.2
5/31/74	.02	.01	4.1	10	.9	0	0	.9	.1	0	0	6	.5
6/28/74	0	0	4.0	14	.2	0	0	.2	0	0	0	6	.1
8/27/74	FLOW NEGLIGIBLE		4.6	14	---	0	---	1.7	---	0	---	225	---
9/25/74	.02	.01	4.3	12	1.3	0	0	0	0	0	0	275	29.4
11/1/74	FLOW NEGLIGIBLE		4.3	8	---	0	---	.4	---	0	---	200	---
AVG.	.03	.02	---	8.4	1.0	0	0	1.117	.3	<.04	<.01	67.3	4.7

Sampling Station No. 52 - Abandoned Strip Mine Pit													
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
9/26/73	---	---	4.2	10	---	0	0	.5	---	<.5	---	5	---
10/16/73	---	---	3.5	10	---	0	0	.438	---	0	---	20	---
11/13/73	---	---	4.3	8	---	0	0	.438	---	0	---	31	---
1/17/74	---	---	4.4	10	---	0	0	5.355	---	0	---	6	---
2/26/74	---	---	3.7	10	---	0	0	.146	---	0	---	10	---
3/19/74	---	---	4.0	8	---	0	0	0	---	0	---	11	---
4/25/74	---	---	4.4	4	---	0	0	.200	---	0	---	9	---
5/31/74	---	---	4.2	10	---	0	0	.8	---	0	---	10	---
6/28/74	---	---	4.1	10	---	0	0	.3	---	0	---	10	---
8/27/74	---	---	4.8	10	---	0	0	1.4	---	0	---	325	---
9/25/74	---	---	4.3	10	---	0	0	.2	---	0	---	300	---
11/1/74	---	---	4.4	8	---	0	0	.3	---	0	---	200	---
AVG.	---	---	---	7.5	---	0	0	.840	---	<.04	---	78.1	---

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
9/26/73	---	---	4.5	7	0	.9	<.5	5
10/16/73	---	---	3.8	6	0	0	0	15
11/13/73	---	---	4.6	8	2	.438	0	31
1/17/74	---	---	4.8	12	4	.894	0	14
2/26/74	---	---	3.9	8	0	1.362	0	12
3/19/74	---	---	4.3	32	0	0	0	30
4/25/74	---	---	4.5	2	0	.200	0	7
5/31/74	---	---	4.5	6	0	.5	0	9
6/28/74	---	---	4.5	10	0	.5	0	10
8/27/74	---	---	5.2	4	8	3.4	0	250
9/25/74	---	---	4.5	6	0	.1	0	225
11/1/74	---	---	4.8	6	4	.3	0	175
AVG.	---	---	---	8.9	1.5	.716	<.04	65.3

Sampling Station No. 54 - Discharge from Strip Pits

9/26/73	.05	.03	4.5	6	1.5	0	0	.3	.1	<.3	<.1	5	1.2
10/16/73	0	0	6.2	2	0	4	0	.146	0	0	0	15	.1
11/13/73	0	0	4.5	12	.2	0	0	.438	0	0	0	36	.5
1/17/74	NEGLIGIBLE	NEGLIGIBLE	4.6	8	---	2	---	2.010	---	0	0	6	---
2/26/74	.03	.02	3.8	4	.6	0	0	.741	.1	0	0	10	1.4
3/19/74	NEGLIGIBLE	NEGLIGIBLE	4.2	12	---	0	0	4.762	---	0	0	9	---
4/25/74	.05	.03	4.7	4	1.1	4	1.1	.100	0	0	0	7	2.0
5/31/74	FLOW	NEGLIGIBLE	4.2	10	---	0	0	.3	---	0	0	11	---
6/28/74	FLOW	NEGLIGIBLE	5.1	6	---	4	---	.1	---	0	0	6	---
8/27/74	FLOW	NEGLIGIBLE	6.1	4	---	10	---	.6	---	0	0	250	---
9/25/74	0	0	4.6	8	.4	4	.2	0	0	0	0	300	16.0
11/1/74	FLOW	NEGLIGIBLE	6.4	2	---	66	---	1.3	---	0	0	150	---
AVG.	.01	.006	---	6.5	.63	7.8	.14	.900	.03	<.02	<.01	67.1	1.8

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. 55 - Refuse Pile Runoff</u>													
9/26/73	.05	.03	3.7	24	6.0	0	0	1.4	.3	.9	.2	54	13.4
10/16/73	.04	.02	3.1	24	4.7	0	0	.438	.1	0	0	55	10.8
11/13/73	.04	.03	3.6	32	6.8	0	0	.894	.2	0	0	61	13.0
1/17/74	.06	.04	3.9	18	5.8	0	0	1.047	.3	0	0	60	19.2
2/26/74	.05	.03	3.4	16	4.6	0	0	2.515	.7	0	0	64	18.2
3/19/74	.04	.03	3.5	34	7.3	0	0	4.524	1.0	1.120	.2	65	13.9
4/25/74	.04	.03	3.7	20	4.3	0	0	1.300	.3	0	0	59	12.6
5/31/74	.04	.02	3.2	26	5.1	0	0	1.4	.3	0	0	61	11.9
6/28/74	.02	.01	3.5	30	2.7	0	0	1.0	.1	0	0	58	5.2
8/27/74	.01	0	3.8	400	28.5	0	0	.6	0	0	0	250	17.8
9/25/74	.05	.03	3.7	32	8.0	0	0	2.7	.7	2.24	.6	225	56.0
11/1/74	NEGLIGIBLE	---	3.9	20	---	0	0	1.0	---	0	0	250	---
AVG.	.04	.02	---	56.3	7.6	0	0	1.568	.36	.36	.1	105.2	17.5

<u>Sampling Station No. 56 - Abandoned Strip Pit</u>													
10/16/73	---	---	3.8	4	---	0	---	.146	---	0	---	20	---
11/13/73	---	---	4.5	8	---	0	---	.438	---	0	---	31	---
1/17/74	---	---	4.5	12	---	0	---	.438	---	0	---	8	---
2/26/74	---	---	3.8	8	---	0	---	.894	---	0	---	12	---
3/19/74	---	---	4.3	4	---	0	---	6.667	---	0	---	7	---
4/25/74	---	---	4.6	4	---	2	---	0	---	0	---	6	---
5/31/73	---	---	3.7	12	---	0	---	.6	---	0	---	8	---
6/28/74	---	---	3.6	16	---	0	---	.1	---	0	---	7	---
8/27/74	---	---	5.0	6	---	8	---	.2	---	0	---	225	---
9/25/74	---	---	4.6	6	---	2	---	.2	---	0	---	275	---
AVG.	---	---	---	8.9	---	1.2	---	.968	---	0	---	59.9	---

LOYALSOCK CREEK ACID MINE DRAINAGE STUDY

DATE	FLOW	FLOW	PH	ACIDITY		ALKALINITY		TOTAL IRON		FERROUS IRON		SULFATES	
	(CFS)	(MGD)		MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY

Sampling Station No. 57 - Abandoned Strip Pits

10/16/73	---	---	3.9	4	---	0	---	1.203	---	0	---	0	---
11/13/73	---	---	4.5	8	---	0	---	.741	---	0	---	36	---
1/17/74	---	---	4.6	12	---	2	---	.894	---	0	---	9	---
2/26/74	---	---	3.7	12	---	0	---	4.542	---	0	---	11	---
3/19/74	---	---	4.5	4	---	0	---	.952	---	0	---	4	---
4/25/74	---	---	4.5	4	---	0	---	.300	---	0	---	7	---
5/31/74	---	---	4.2	10	---	0	---	1.1	---	0	---	2	---
6/28/74	---	---	4.3	14	---	0	---	1.3	---	0	---	4	---
8/27/74	---	---	5.2	4	---	6	---	2.0	---	0	---	225	---
9/25/74	---	---	4.6	10	---	2	---	1.3	---	0	---	300	---
AVG.	---	---	---	8.2	---	1.0	---	1.433	---	0	---	59.8	---

Sampling Station No. 58 - Abandoned Strip Pit

10/16/73	---	---	3.9	40	---	0	---	6.438	---	3.0	---	0	---
11/13/73	---	---	4.4	26	---	0	---	1.047	---	0	---	31	---
1/17/74	---	---	4.5	16	---	0	---	2.688	---	0	---	9	---
2/26/74	---	---	3.7	22	---	0	---	2.176	---	0	---	7	---
3/19/74	---	---	4.4	6	---	0	---	5.476	---	0	---	9	---
4/25/74	---	---	4.5	12	---	0	---	.800	---	0	---	6	---
5/31/74	---	---	4.3	12	---	0	---	2.3	---	0	---	2	---
6/28/74	---	---	4.3	12	---	0	---	2.9	---	0	---	3	---
8/27/74	---	---	4.9	10	---	0	---	1.7	---	0	---	250	---
9/25/74	---	---	4.4	26	---	0	---	.6	---	0	---	275	---
AVG.	---	---	---	18.2	---	0	---	2.613	---	.3	---	36.7	---

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
10/16/73	1.11	.72	5.6	2	12.0	6	35.9	.292	1.7	0	0	35	209.2
11/13/73	1.66	1.07	5.8	4	35.9	2	17.9	.438	3.9	0	0	41	367.6
1/17/74	2.00	1.29	6.0	2	21.5	10	107.6	.438	4.7	0	0	10	107.6
2/26/74	4.46	2.88	4.7	4	96.1	2	48.0	.292	7.0	0	0	11	264.2
3/19/74	3.06	1.97	5.0	2	32.9	6	98.8	2.857	47.1	0	0	11	181.2
4/25/74	2.00	1.29	5.5	4	43.1	10	107.6	.600	6.5	0	0	9	96.9
5/31/74	1.23	.80	5.4	8	53.1	12	79.6	.9	6.0	0	0	11	73.0
6/28/74	1.74	1.12	5.7	6	56.1	22	205.9	.8	7.5	0	0	10	93.6
8/27/74	.06	.04	6.4	6	2.0	50	16.9	1.0	.3	0	0	275	93.0
9/25/74	3.71	2.40	5.7	4	80.1	0	0	.2	4.0	0	0	275	5,503.7
10/31/74	.49	.31	5.7	6	15.7	14	36.6	.3	.8	0	0	100	261.5
AVG.	1.96	1.26	---	4.4	40.8	12.2	68.6	.738	8.1	0	0	71.6	659.2

Sampling Station No. 59 - Birch Creek