

APPENDIX A

CONTENTS

	Page
1. INDEX AND DESCRIPTION OF MINE DRAINAGE SAMPLING POINTS	A-i
2. MINE DRAINAGE SAMPLING POINT RECORDS	A-1
(a) MONTHLY CHEMICAL ANALYSES	
(b) MONTHLY CHEMICAL LOADINGS	

SEE SUMMARY DATA IN CHAPTER VII

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

#### NO.

- 1 Northeast Streamflow Feeding The Bakerton Reservoir To Susquehanna River Near Carrolltown.
- 2 West Streamflow Feeding The Bakerton Reservoir To Susquehanna River Near Carrolltown.
- 3 Strip Mine Drainage To Susquehanna River Headwater Near Carrolltown.
- 4 Strip Mine Drainage To Susquehanna River Headwater Near Carrolltown.
- 5 Deep Mine Drainage Through Pipeline To Susquehanna River Headwater Near Carrolltown.
- 6 Lancashire 20 Deep Mine Drainage To Treatment Plant Near Carrolltown.
- 7 Deep Mine Seepage To Susquehanna River Headwater Near Carrolltown.
- 8 Strip Mine Drainage To Susquehanna River Headwater Near Carrolltown.
- 9 Strip Mine Drainage To Susquehanna River Headwater Near Carrolltown.
- 10 Susquehanna River Headwater Stream At Concrete Bridge Near Bakerton. No Weir.
- 11 Strip Mine Drainage To Susquehanna River Headwater Near Bakerton.
- 12 Deep Mine Drainage To Susquehanna River Headwater Near Bakerton.
- 13 Seepage Through Deep Mine Refuse Pile To Susquehanna River Near Bakerton.
- 14 Strip Mine Drainage To Susquehanna River Headwater Near Bakerton.
- 15 Deep Mine Drainage To Susquehanna River Headwater Near Bakerton.

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

#### NO.

- 16 Susquehanna River Headwater Stream At Bridge Near Bakerton. No Weir.
- 17 Deep Mine Drainage To Susquehanna River Headwater Near Bakerton.
- 18 Deep Mine Drainage To Susquehanna River Near Bakerton.
- 19 Deep Mine Discharge To Susquehanna River Near Bakerton.
- 20 Deep Mine Discharge To Susquehanna River Near Bakerton.
- 21 Deep Mine Drainage To Susquehanna River Near Bakerton.
- 22 Deep Mine Drainage To Susquehanna River Near Bakerton.
- 23 Strip Mine Drainage Headwater Of Lesle Run Near Bakerton.
- 24 Strip Mine Water To Lesle Run Near Bakerton.
- 25 Strip Mine Seepage Water To Lesle Run Near Bakerton.
- 26 Strip Mine Seepage Water To Lesle Run Near Bakerton.
- 27 Deep Mine Drainage To Lesle Run Near Bakerton.
- 28 Deep Mine Seepage To Lesle Run Near Bakerton.
- 29 Deep Mine Seepage To Lesle Run Near Bakerton Along The Railroad Tracks.
- 30 Refuse Pile Dump Seepage To Susquehanna River Near Bakerton Along Black Top Road.
- 31 Stream Water Through Refuse Pile To Susquehanna River Near Bakerton.
- 32 Seepage Through Refuse Pile To Susquehanna River Near Bakerton.
- 33 Deep Mine Drainage To Susquehanna River Near Barnes. Sterling No. 7 Portal.

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

NO.

- 34 Strip Mine Drainage To Susquehanna River Near Barnes.
- 35 Seepage Along Cropline To Hoppel Run Near Lancashire #25 Mine.
- 36 Deep Mine Drainage To Hoppel Run Near Lancashire #25 Mine.
- 37 Strip Mine Seepage To Hoppel Run Near Lancashire #15 Mine.
- 38 Stream Water To Hoppel Run Near Lancashire #15 Mine.
- 39 Seepage Along Outcrop Line To Susquehanna River Near Watkins.
- 40 Deep Mine And Strip Mine Drainage To Susquehanna River Near Watkins.
- 41 Seepage Through Refuse Pile To Susquehanna River Near Watkins.
- 42 Strip Mine Drainage To Susquehanna River Near Watkins.
- 43 Deep Mine Drainage To Susquehanna River Near Watkins. Lancashire Number 15 Breakout.
- 44 Deep Mine Seepage To Susquehanna River Near Watkins. Lancashire Number 15 Breakout.
- 45 Deep Mine Seepage To Susquehanna River Near Watkins. Lancashire Number 15 Breakout.
- 46 Deep Mine Seepage To Susquehanna River Near Watkins. Lancashire Number 15 Breakout.
- 47 Deep Mine Drainage To Susquehanna River Near Watkins.
- 48 Deep Mine Drainage To Susquehanna River Near Watkins.
- 49 Seepage Through Refuse Pile To Susquehanna River Near Spangler.
- 50 Deep Mine Drainage Through Borehole To Susquehanna River Near Spangler. Victor Number 9.
- 51 Deep Mine Drainage To Fox Run Near St. Benedict.

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

#### NO.

- 52 Deep Mine Drainage To Fox Run Near St. Benedict.
- 53 Deep Mine Drainage Near St. Benedict To Fox Run.
- 54 Strip Mine Drainage To Fox Run Near St. Benedict.
- 55 Strip Mine Drainage To Fox Run Near St. Benedict.
- 56 Strip Mine Drainage To Fox Run Near St Benedict.
- 57 Strip Mine Drainage To Fox Run Near St. Benedict.
- 58 Strip Mine Seepage To Fox Run Near St. Benedict.
- 59 Strip Mine Seepage To Fox Run Near St. Benedict.
- 60 Strip Mine Seepage To Fox Run Near St. Benedict.
- 61 Deep Mine Drainage To Fox Run Near St. Benedict.
- 62 Deep Mine Drainage To Fox Run Near St. Benedict.
- 63 Deep Mine Drainage To Fox Run Near St. Benedict.
- 64 Deep Mine Drainage To Fox Run Near Hastings.
- 65 Strip Mine Seepage To Fox Run Near Hastings.
- 66 Strip Mine Drainage To Fox Run Near Hastings.
- 67 Strip Mine Seepage To Fox Run Near Hastings.
- 68 Strip Mine Seepage To Fox Run Near Hastings.
- 69 Strip Mine Seepage To Fox Run Near Hastings.
- 70 Strip Mine Drainage To Fox Run Near Hastings.
- 71 Strip Mine Seepage To Fox Run Near Spangler.
- 72 Deep Mine Drainage To Fox Run Near Spangler.

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

#### NO.

- 73 Deep Mine Seepage To Fox Run Near Spangler.
- 74 Deep Mine Drainage To Fox Run Near Spangler.
- 75 Deep Mine Drainage Through Borehole To Fox Run Near Spangler. Victor Number 9.
- 76 Deep Mine Drainage To Browns Run Near Spangler.
- 77 Strip Mine Drainage To Browns Run Near Spangler.
- 78 Deep Mine Drainage To Browns Run Near Spangler.
- 79 Strip Mine Seepage To Susquehanna River Near Spangler.
- 80 Seepage Through Refuse Pile To Susquehanna River Near Spangler.
- 81 Deep Mine Seepage Along Railroad Tracks To Susquehanna River Near Barnesboro.
- 82 Deep Mine Drainage To Susquehanna River Near Barnesboro.
- 83 Deep Mine Drainage To Susquehanna River Near Barnesboro.
- 84 Strip Mine Drainage To Walnut Run Near Cymbria.
- 85 Deep Mine Drainage To Walnut Run Near Cymbria.
- 86 Deep Mine Drainage To Walnut Run Near Cymbria.
- 87 Strip Mine Seepage To Walnut Run Near Cymbria.
- 88 Strip Mine, Possibly Deep Mine Breakout, Drainage To Walnut Run Near Cymbria.
- 89 Strip Mine Drainage To Walnut Run Near Cymbria.
- 90 Deep Mine Drainage To Walnut Run Near Allport.
- 91 Deep Mine Drainage To Walnut Run Near Allport.

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

NO.

- 92 Deep Mine Drainage To Walnut Run Near Allport.
- 93 Deep Mine Drainage To Walnut Run Near Allport.
- 94 Deep Mine Drainage To Walnut Run Near Allport.
- 95 Strip Mine Drainage To Walnut Run Near Allport.
- 96 Stream Flow Through Deep Mine To Walnut Run Near Allport.
- 97 Deep Mine Drainage To Walnut Run Near Allport.
- 98 Deep Mine Seepage To Walnut Run Near Allport.
- 99 Deep Mine Drainage To Walnut Run Near Barnesboro.
- 100 Stream Flow Including Deep Mine And Spoil Pile Discharge To Porter Run Near North Barnesboro.
- 101 Strip Mine Discharge To Porter Run Near North Barnesboro.
- 102 Deep Mine Discharge To Porter Run Near North Barnesboro.
- 103 Deep Mine Discharge To Porter Run Near North Barnesboro.
- 104 Seepage Through Spoil Pile To Porter Run Near North Barnesboro.
- 105 Deep Mine Discharge To Susquehanna River Near North Barnesboro.
- 106 Strip Mine Drainage To Susquehanna River Near North Barnesboro.
- 107 Deep Mine And Strip Mine Discharge To Susquehanna River Near North Barnesboro.
- 108 Seepage Through Spoil Pile To Susquehanna River Near North Barnesboro.
- 109 Strip Mine Drainage To Susquehanna River Near North Barnesboro.
- 110 Stream Flow Including Strip Mine And Deep Mine Discharge.
- 111 Deep Mine Seepage To Moss Creek Near Moss Creek.

## APPENDIX A

### INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

NO.

- 112 Deep Mine Drainage To Moss Creek Near Moss Creek.
- 113 Deep Mine Drainage To Moss Creek Near Moss Creek.
- 114 Deep Mine Drainage To Moss Creek Near Moss Creek.
- 115 Strip Mine Drainage To Moss Creek Near Moss Creek.
- 116 Deep Mine Drainage To Moss Creek Near Moss Creek.
- 117 Deep Mine Drainage To Moss Creek Near Moss Creek.
- 118 Strip Mine Drainage To Moss Creek Near Moss Creek.
- 119 Stream Flow Through Refuse Pile To Moss Creek Near Moss Creek.
- 120 Seepage Through Refuse Pile To Moss Creek Near Moss Creek.
- 121 Deep Mine Drainage To Moss Creek Near Moss Creek.
- 122 Strip Mine Drainage To Moss Creek Near Moss Creek.
- 123 Deep Mine Drainage To Moss Creek Near Garmantown.
- 124 Strip Mine Drainage Near Garmantown To Moss Creek.
- 125 Strip Mine Drainage To Moss Creek Near Garmantown.
- 126 Strip Mine Drainage To Moss Creek Near Garmantown.
- 127 Deep Mine Drainage To Moss Creek Near Garmantown.
- 128 Deep Mine Drainage To Moss Creek Near Garmantown.
- 129 Strip Mine Drainage To Susquehanna River Near Garmantown.
- 130 Stream Flow Including Strip Mine And Deep Mine Drainage To Susquehanna River Near Garmantown.
- 131 Deep Mine Drainage To Susquehanna River Near Garmantown.



APPENDIX A

INDEX AND DESCRIPTION OF COAL MINE DRAINAGE SAMPLING POINTS

NO.

- 132 Strip Mine Drainage To Susquehanna River Near Garmantown.
- 133 Strip Mine Drainage To Susquehanna River Near Garmantown.
- 134 Strip Mine Drainage To Susquehanna River Near Garmantown.
- 135 Strip Mine Drainage To Susquehanna River Near Garmantown
- 136 Strip Mine Drainage To Douglas Run Near Greenwich.
- 137 Strip Mine Drainage To Douglas Run Near Greenwich.
- 138 Strip Mine Drainage To Douglas Run Near Greenwich.
- 139 Strip Mine Drainage To Douglas Run Near Greenwich.
- 140 Strip Mine Drainage To Douglas Run Near Greenwich.
- 141 Deep Mine Drainage To Douglas Run Near Greenwich.
- 142 Deep Mine Drainage To Douglas Run Near Greenwich.
- 143 Strip Mine Drainage To Douglas Run Near Greenwich.
- 144 Deep Mine Drainage To Douglas Run Near Greenwich
- 145 Deep Mine Drainage To Douglas Run Near Greenwich.
- 146 Strip Mine Drainage To Douglas Run Near Greenwich.
- 147 Strip Mine Drainage To Douglas Run Near Greenwich.
- 148 Stream Flow Including Strip Mine And Deep Mine Discharge To Douglas Run Near Greenwich.
- 149 Strip Mine Drainage To Douglas Run Near Greenwich.
- 150 Strip Mine Drainage To Douglas Run Near Greenwich.
- 151 Strip Mine Drainage Along Railroad Track To Douglas Run Near Greenwich.
- 152 Strip Mine Drainage Crossing Railroad Track To Susquehanna River Near Emeigh.

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 1

NORTHEAST STREAMFLOW FEEDING THE BAKERTON RESERVOIR TO SUSQUEHANNA RIVER NEAR CARROLLTOWN

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	694	7.2	12	0	0.2	19	100	0	1.7	160		
02-01-71	NO SAMPLE AVAILABLE - FROZEN											
03-02-71	284	7.2	14	0	0.2	19	48	0	0.68	65		
04-01-71	34	7.1	12	0	0.1	10	4.9	0	0.04	3.9		
05-03-71	34	7.2	16	0	0.1	58	6.5	0	0.04	24		
06-01-71	12	7.3	22	0	0.2	29	3.2	0	0.03	4.2		
07-09-71	1	7.5	34	0	0.3	48	0.41	0	0.00	0.58		
08-02-71	2	7.3	26	0	0.8	67	0.62	0	0.02	1.6		
09-01-71	1	7.5	32	0	0.5	48	0.38	0	0.01	0.58		
10-04-71	12	7.1	18	0	0.2	48	2.6	0	0.03	6.9		
11-15-71	2	7.2	20	0	1.4	29	0.48	0	0.03	0.70		
12-01-71	12	7.1	16	0	0.2	29	2.3	0	0.03	4.2		
MIN.	1	7.1	12	0	0.1	10	0.38	0	0.00	0.58		
MAX.	694	7.5	34	0	1.4	67	100	0	1.7	160		
AVG.	99		15	0				0	0.24	25		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 2  
 WEST STREAMFLOW FEEDING THE BAKERTON RESERVOIR TO SUSQUEHANNA RIVER NEAR CARROLLTOWN

DATE	GPM	pH	PPM						PPD		
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>	
01-05-71	397	5.6	8	6	0.2	48	38	29	0.95	229	
02-01-71	300	5.2	8	6	2.2	86	29	22	7.9	311	
03-02-71	397	4.4	2	14	0.3	96	9.5	67	1.4	457	
04-01-71	70	4.8	4	8	0.1	62	3.4	6.7	0.08	52	
05-03-71	34	4.9	2	10	0	86	0.82	4.1	0	35	
06-01-71	12	4.7	6	10	0.04	86	0.86	1.4	0.01	12	
07-09-71	NO SAMPLE AVAILABLE - DRY										
08-02-71	1	4.6	4	6	0.1	77	0.05	0.07	0.00	0.92	
09-01-71	NO SAMPLE AVAILABLE - DRY										
10-04-71	12	5.8	4	2	0.1	58	0.58	0.29	0.01	8.4	
11-15-71	1	5.3	8	6	2.4	38	0.10	0.07	0.03	0.46	
12-01-71	2	6.2	10	2	0.1	38	0.24	0.05	0.00	0.91	
MIN.	0	4.4	2	2	0	38	0	0	0	0	
MAX.	397	6.2	10	14	2.4	96	38	67	7.9	457	
AVG.	102						6.9	11	0.87	92	

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 3

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR CARROLLTOWN

DATE	GPM	pH	PPM							PPD		
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	70	6.9	14	0	3.0	29	12	0	2.5	24		
02-01-71	NO SAMPLE	AVAILABLE	-	FROZEN								
03-02-71	6	6.6	16	0	1.1	19	1.2	0	0.08	1.4		
04-01-71	12	6.5	16	0	0.6	10	2.3	0	0.09	1.4		
05-03-71	12	6.0	12	0	0.2	29	1.7	0	0.03	4.2		
06-01-71	NO SAMPLE	AVAILABLE	-	DRY								
07-09-71	NO SAMPLE	AVAILABLE	-	DRY								
08-02-71	NO SAMPLE	AVAILABLE	-	DRY								
09-01-71	NO SAMPLE	AVAILABLE	-	DRY								
10-04-71	NO SAMPLE	AVAILABLE	-	DRY								
11-15-71	NO SAMPLE	AVAILABLE	-	DRY								
12-01-71	1	6.6	26	0	0.7	48	0.31	0	0.01	0.58		
MIN.	0	6.0	12	0	0.2	10	0	0	0	0		
MAX.	70	6.9	26	0	3.0	48	12	0	2.5	24		
AVG.	9.2						1.6	0	0.25	2.9		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 4

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR CARROLLTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	50	4.5	6	16	0.8	48	3.6	9.6	0.48	29		
02-01-71	NO SAMPLE AVAILABLE - FROZEN											
03-02-71	6	4.5	2	13	0.5	38	0.14	0.94	0.04	2.8		
04-01-71	2	4.2	0	16	1.4	34	0	0.38	0.03	0.81		
05-03-71	2	3.8	0	16	0.9	38	0	0.38	0.02	0.91		
06-01-71	NO SAMPLE AVAILABLE - DRY											
07-09-71	NO SAMPLE AVAILABLE - DRY											
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	2	3.6	0	78	5.2	77	0	1.9	0.12	1.8		
11-15-71	1	3.6	0	50	4.6	58	0	0.60	0.06	0.70		
12-01-71	2	4.2	0	80	0.9	77	0	1.9	0.02	1.8		
MIN.	0	3.6	0	13	0.5	34	0	0	0	0		
MAX.	50	4.5	6	80	5.2	77	3.6	9.6	0.48	29		
AVG.	5.9						0.34	1.4	0.07	3.4		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 5

DEEP MINE DRAINAGE THROUGH PIPELINE TO SUSQUEHANNA RIVER HEADWATER NEAR CARROLLTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	193	3.5	0	72	5.7	403	0	167	13	933		
02-01-71	123	3.4	0	92	7.5	451	0	136	11	666		
03-02-71	193	3.4	0	80	6.7	326	0	185	16	755		
04-01-71	70	3.3	0	52	4.3	346	0	44	3.6	290		
05-03-71	50	3.2	0	78	7.4	374	0	47	4.4	224		
06-01-71	22	3.2	0	86	3.3	422	0	23	0.87	111		
07-09-71	3	3.2	0	100	1.4	470	0	3.6	0.05	17		
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	1	2.9	0	148	5.0	422	0	1.8	0.06	5.1		
11-15-71	1	2.9	0	80	1.4	499	0	0.96	0.02	6.0		
12-01-71	2	3.0	0	160	1.6	374	0	3.8	0.04	9.0		
MIN.	0	2.9	0	52	1.4	326	0	0	0	0		
MAX.	193	3.5	0	160	7.5	499	0	185	16	933		
AVG.	55		0				0	51	4.1	251		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 6

LANCASHIRE 20 DEEP MINE DRAINAGE TO TREATMENT PLANT NEAR CARROLLTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T. Fe	SO <sub>4</sub>	ALK	ACD	T. Fe	SO <sub>4</sub>		
01-05-71	1,800	3.2	0	242	59	1,008	0	5,227	1,274	21,773		
02-01-71	1,400	3.2	0	194	58	989	0	3,259	974	16,615		
03-02-71	1,800	3.1	0	250	58.5	1,066	0	5,400	1,264	23,026		
04-01-71	1,801	3.2	0	102	36.5	730	0	2,204	789	15,768		
05-03-71	990	3.1	0	140	57	768	0	1,663	677	9,124		
06-01-71	1,801	3.0	0	200	66.5	979	0	4,322	1,437	21,158		
07-09-71	646	3.0	0	238	102	1,162	0	1,845	791	9,008		
08-02-71	991	2.7	0	210	107.0	1,123	0	2,497	1,272	13,355		
09-01-71	646	2.7	0	368	65.0	1,066	0	2,853	504	8,264		
10-04-71	646	2.8	0	248	82.0	950	0	1,922	636	7,364		
11-15-71	1,013	3.0	0	160	116.0	912	0	1,945	1,410	11,086		
12-01-71	353	2.8	0	410	94.0	1,142	0	1,737	398	4,838		
MIN.	353	2.7	0	102	36.5	730	0	1,663	398	4,838		
MAX.	1,801	3.2	0	410	116	1,162	0	5,400	1,437	23,026		
AVG.	1,157		0				0	2,906	952	13,448		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 7

DEEP MINE SEEPAGE TO SUSQUEHANNA RIVER HEADWATER NEAR CARROLLTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	2	3.2	0	212	2.6	509	0	5.1	0.62	12		
02-01-71	2	3.2	0	58	71.5	624	0	1.4	1.7	15		
03-02-71	9	3.1	0	186	18.4	480	0	20	2.0	52		
04-01-71	6	3.0	0	166	26.5	499	0	12	1.9	36		
05-03-71	2	2.9	0	220	40.5	566	0	5.3	0.97	14		
06-01-71	2	2.9	0	312	42.5	614	0	7.5	1.0	15		
07-09-71	6	2.9	0	312	38	739	0	22	2.7	53		
08-02-71	2	2.6	0	286	40.5	778	0	6.9	0.97	19		
09-01-71	6	2.7	0	456	68.0	806	0	33	4.9	58.0		
10-04-71	6	2.6	0	284	33.5	662	0	20	2.4	48		
11-15-71	1	2.7	0	210	55.0	715	0	2.5	0.66	8.6		
12-01-71	1	2.9	0	400	47.5	710	0	4.8	0.57	8.5		
MIN.	1	2.6	0	58	18.4	480	0	1.4	0.57	8.5		
MAX.	9	3.2	0	456	71.5	806	0	33	4.9	58		
AVG.	3.8						0	12	1.7	28		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 8

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR CARROLLTOWN

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-05-71	50	3.5	0	69	3.0	144	0	41	1.8	86		
02-01-71	12	3.2	0	226	11	384	0	33	1.6	55		
03-02-71	12	3.7	0	56	1.5	86	0	8.1	0.22	12		
04-01-71	12	3.5	0	50	2.7	106	0	7.2	0.39	15		
05-03-71	6	3.0	0	184	6.6	259	0	13	0.48	19		
06-01-71	2	2.9	0	214	15.1	317	0	5.1	0.36	7.6		
07-09-71	1	2.9	0	262	14.3	456	0	3.1	0.17	5.5		
08-02-71	1	2.7	0	186	11.4	365	0	2.2	0.14	4.4		
09-01-71	1	3.0	0	182	9.6	269	0	2.2	0.12	3.2		
10-04-71	6	3.1	0	114	2.7	125	0	8.2	0.19	9.0		
11-15-71	2	3.0	0	406	7.4	235	0	9.7	0.18	5.6		
12-01-71	2	3.2	0	136	2.1	144	0	3.3	0.05	3.5		
MIN.	1	2.7	0	50	1.5	86	0	2.2	0.05	3.2		
MAX.	50	3.7	0	406	15.1	456	0	41	1.8	86		
AVG.	8.9		0				0	11	0.48	19		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 9

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR CARROLLTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	12	3.1	0	90	3.1	154	0	13	0.45	22		
02-01-71	6	3.2	0	486	64	384	0	35	4.6	28		
03-02-71	6	3.1	0	111	1.8	134	0	8.0	0.13	9.6		
04-01-71	6	2.8	0	78	1.2	120	0	5.6	0.09	8.6		
05-03-71	6	2.8	0	118	1.1	221	0	8.5	0.08	16		
06-01-71	1	2.8	0	104	2.7	182	0	1.2	0.03	2.2		
07-09-71	NO SAMPLE AVAILABLE - DRY											
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	2	2.5	0	168	2.2	202	0	4.0	0.05	4.8		
11-15-71	1	2.5	0	204	5.7	173	0	2.4	0.07	2.1		
12-01-71	2	2.7	0	192	1.3	173	0	4.6	0.03	4.2		
MIN.	0	2.5	0	78	1.1	120	0	0	0	0		
MAX.	12	3.2	0	486	64	384	0	35	4.6	28		
AVG.	3.5		0	6.9	0.46	8.1	0	6.9	0.46	8.1		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

STREAM SAMPLING STATION 10

SUSQUEHANNA RIVER HEADWATER STREAM AT CONCRETE BRIDGE NEAR BAKERTON. NO WEIR.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	RIVER	6.7	10	3	2.2	298						
02-01-71	RIVER	4.7	6	48	5.7	826						
03-02-71	RIVER	6.2	8	6	2.0	336						
04-01-71	RIVER	4.7	4	28	1.6	115						
05-03-71	RIVER	5.4	6	12	2.4	710						
06-01-71	RIVER	5.7	10	10	2.4	845						
07-09-71	RIVER	4.9	4	24	1.5	1,056						
08-02-71	RIVER	5.6	18	4	1.8	1,104						
09-01-71	RIVER	5.0	22	16	1.0	902						
10-04-71	RIVER	8.1	32	0	1.3	720						
11-15-71	RIVER	11.2	72	0	2.5	835						
12-01-71	RIVER	4.8	4	46	7.6	682						

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 11

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR BAKERTON

DATE	GPM	pH	PPM				PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04	
01-05-71	6	3.2	0	98	4.2	278	0	7.1	0.30	20	
02-01-71	1	3.6	0	60	3.5	269	0	0.72	0.04	3.2	
03-02-71	12	3.4	0	68	2.6	202	0	9.8	0.37	29	
04-01-71	2	3.1	0	76	5.4	230	0	1.8	0.13	5.5	
05-03-71	2	3.4	0	54	3.7	250	0	1.3	0.09	6.0	
06-01-71	1	3.6	0	32	1.5	264	0	0.38	0.02	3.2	
07-09-71	NO SAMPLE AVAILABLE - DRY										
08-02-71	1	3.3	0	64	2.9	403	0	0.77	0.03	4.8	
09-01-71	1	3.1	0	188	4.8	336	0	2.3	0.06	4.0	
10-04-71	6	2.9	0	128	5.9	298	0	9.2	0.42	21	
11-15-71	2	3.2	0	126	4.7	283	0	3.0	0.11	6.8	
12-01-71	1	3.2	0	196	9.9	326	0	2.4	0.12	3.9	
MIN.	0	2.9	0	32	1.5	202	0	0	0	0	
MAX.	12	3.6	0	196	9.9	403	0	9.8	0.42	29	
AVG.	2.9						0	3.2	0.14	9.0	

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 12

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR BAKERTON

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-05-71	50	3.6	0	54	1.8	384	0	32	1.1	230		
02-02-71	12	3.4	0	118	3.0	586	0	17	0.43	84		
03-02-71	156	3.5	0	76	2.0	317	0	142	3.7	593		
04-01-71	12	3.3	0	60	2.5	288	0	8.6	0.36	41		
05-03-71	12	3.1	0	102	2.6	413	0	15	0.37	59		
06-01-71	12	3.2	0	126	2.9	432	0	18	0.42	62		
07-09-71	2	3.4	0	116	1.7	528	0	2.8	0.04	13		
08-02-71	1	3.0	0	140	1.6	576	0	1.7	0.02	6.9		
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	12	3.1	0	118	1.3	202	0	17	0.19	29		
11-15-71	2	3.1	0	174	2.0	350	0	4.2	0.05	8.4		
12-01-71	2	2.4	0	136	1.3	202	0	3.3	0.03	4.8		
MIN.	0	2.4	0	54	1.3	202	0	0	0	0		
MAX.	156	3.6	0	174	3.0	586	0	142	3.7	593		
AVG.	23		0				0	22	0.56	94		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

SAMPLING STATION 13

SEEPAGE THROUGH DEEP MINE REFUSE PILE TO SUSQUEHANNA RIVER NEAR BAKERTON.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-05-71	70	2.8	0	2,220	148	3,869	0	1,865	124	3,250		
02-02-71	123	2.8	0	2,540	174	3,178	0	3,749	257	4,691		
03-02-71	70	2.6	0	3,780	245	4,291	0	3,175	206	3,604		
04-01-71	12	2.4	0	1,880	155	3,734	0	271	22	538		
05-03-71	34	2.3	0	3,370	152.5	3,840	0	1,375	62	1,567		
06-01-71	2	2.6	0	1,648	145	1,872	0	40	3.5	45		
07-09-71	12	3.0	0	1,000	89	1,670	0	144	13	240		
08-02-71	2	2.3	0	2,254	96.0	3,773	0	54	2.3	91		
09-01-71	2	2.5	0	1,048	105.0	1,862	0	25	2.5	45		
10-04-71	2	2.6	0	1,472	153.0	2,141	0	35	3.7	51		
11-15-71	1	2.4	0	3,662	146.0	4,186	0	44	1.8	50		
12-01-71	2	3.4	0	3,392	131.0	4,205	0	81	3.1	101		
MIN.	1	2.3	0	1,000	89	1,670	0	25	1.8	45		
MAX.	123	3.4	0	3,780	245	4,291	0	3,749	257	4,691		
AVG.	28		0				0	905	58	1,189		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 14

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR BAKERTON

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-05-71	6	3.8	0	28	3.1	67	0	2.0	0.22	4.8
02-02-71	NO SAMPLE	AVAILABLE	-	FROZEN						
03-02-71	1	3.5	0	40	2.5	96	0	0.48	0.03	1.2
04-01-71	1	3.1	0	54	3.7	182	0	0.65	0.04	2.2
05-03-71	NO SAMPLE	AVAILABLE	-	DRY						
06-01-71	NO SAMPLE	AVAILABLE	-	DRY						
07-09-71	NO SAMPLE	AVAILABLE	-	DRY						
08-02-71	NO SAMPLE	AVAILABLE	-	DRY						
09-01-71	NO SAMPLE	AVAILABLE	-	DRY						
10-04-71	NO SAMPLE	AVAILABLE	-	DRY						
11-15-71	NO SAMPLE	AVAILABLE	-	DRY						
12-01-71	NO SAMPLE	AVAILABLE	-	DRY						
MIN.	0	3.1	0	28	2.5	67	0	0	0	0
MAX.	6	3.8	0	54	3.7	182	0	2.0	0.22	4.8
AVG.	0.73						0	0.28	0.03	0.75

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 15

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-05-71	70	4.2	0	20	1.0	326	0	17	0.84	274		
02-02-71	22	4.2	0	26	0.3	451	0	6.9	0.08	119		
03-02-71	123	4.3	0	24	0.9	302	0	35	1.3	446		
04-01-71	34	4.1	0	19	0.3	240	0	7.8	0.12	98		
05-03-71	22	3.9	0	30	0.3	307	0	7.9	0.08	81		
06-01-71	12	3.9	0	38	0.2	326	0	5.5	0.03	47		
07-09-71	2	3.8	0	50	0.4	432	0	1.2	0.01	10		
08-02-71	2	3.1	0	50	2.1	499	0	1.2	0.05	12		
09-01-71	2	3.0	0	124	2.7	394	0	3.0	0.06	9.5		
10-04-71	2	3.3	0	100	1.1	470	0	2.4	0.03	11		
11-15-71	2	3.4	0	118	1.3	403	0	2.8	0.03	9.7		
12-01-71	2	4.0	0	138	2.0	365	0	3.3	0.05	8.8		
MIN.	2	3.0	0	19	0.2	240	0	1.2	0.01	8.8		
MAX.	123	4.3	0	138	2.7	499	0	35	1.3	446		
AVG.	25							7.8	0.22	94		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

STREAM SAMPLING STATION 16

SUSQUEHANNA RIVER HEADWATER STREAM AT BRIDGE NEAR BAKERTON. NO WEIR.

DATE	GPM	pH	PPM								
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>	
01-05-71	RIVER	4.3	2	72	17	470					
02-02-71	RIVER	3.9	0	202	17	1,056					
03-02-71	RIVER	4.1	0	122	9.4	480					
04-01-71	RIVER	3.3	0	226	11.9	331					
05-03-71	RIVER	4.2	0	111	7.7	768					
06-01-71	RIVER	4.2	0	118	6.5	1,018					
07-09-71	RIVER	3.7	0	132	7.6	1,104					
08-02-71	RIVER	4.1	0	138	9.5	979					
09-01-71	RIVER	3.5	0	292	10.3	1,037					
10-04-71	RIVER	4.0	0	184	11.0	787					
11-15-71	RIVER	4.8	4	50	8.9	922					
12-01-71	RIVER	3.9	0	202	13.3	710					

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 17

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER HEADWATER NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	174	4.1	0	22	0.5	96	0	46	1.0	200		
02-02-71	2	4.1	0	23	17.5	173	0	0.55	0.42	4.2		
03-02-71	123	4.0	0	20	0.3	67	0	30	0.44	99		
04-01-71	2	4.3	0	12	0.2	77	0	0.29	0.00	1.8		
05-03-71	2	3.5	0	34	1.6	278	0	0.82	0.04	6.7		
06-01-71	1	3.6	0	28	4.1	125	0	0.34	0.05	1.5		
07-09-71	NO SAMPLE AVAILABLE - DRY											
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	2	3.4	0	98	1.1	202	0	2.4	0.03	4.8		
11-15-71	1	3.4	0	140	3.2	269	0	1.7	0.04	3.2		
12-01-71	2	2.9	0	116	1.0	221	0	2.8	0.02	5.3		
MIN.	0	2.9	0	12	0.2	67	0	0	0	0		
MAX.	174	4.3	0	140	17.5	278	0	46	1.0	200		
AVG.	26						0	7.1	0.17	27		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 18

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BAKERTON

DATE	GPM	PH	PPM				PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>	
01-05-71	22	7.4	56	0	0.2	125	15	0	0.05	33	
02-02-71	12	7.4	112	0	0.2	163	16	0	0.03	23	
03-03-71	70	7.5	68	0	0.02	144	57	0	0.02	121	
04-01-71	34	7.6	66	0	0.06	106	27	0	0.02	43	
05-03-71	6	7.7	90	0	0.7	134	6.5	0	0.05	9.6	
06-01-71	2	7.5	108	0	1.2	106	2.6	0	0.03	2.5	
07-09-71	2	7.1	114	0	0.04	154	2.7	0	0.00	3.7	
08-02-71	NO SAMPLE AVAILABLE - DRY										
09-01-71	1	7.8	92	0	0.1	154	1.1	0	0.00	1.8	
10-04-71	22	7.6	116	0	0.2	192	31	0	0.05	51	
11-15-71	1	7.7	116	0	0.1	221	1.4	0	0.00	2.7	
12-01-71	2	7.2	98	0	0.1	154	2.4	0	0.00	3.7	
MIN.	0	7.1	56	0	0.02	106	0	0	0	0	
MAX.	70	7.8	116	0	1.2	221	57	0	0.05	121	
AVG.	15						14	0	0.02	25	

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 19

DEEP MINE DISCHARGE TO SUSQUEHANNA RIVER NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-05-71	6	3.7	0	34	2.5	154	0	2.4	0.18	11		
02-02-71	6	3.7	0	40	59	163	0	2.9	4.2	12		
03-03-71	2	3.8	0	32	0.8	106	0	0.77	0.02	2.5		
04-01-71	12	3.6	0	22	0.2	86	0	3.2	0.03	12		
05-03-71	6	3.5	0	24	0.2	134	0	1.7	0.01	9.6		
06-01-71	2	4.3	0	26	1.7	115	0	0.62	0.04	2.8		
07-09-71	1	4.1	0	40	49.0	134	0	0.48	0.59	1.6		
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	1	3.2	0	112	1.1	221	0	1.3	0.01	2.7		
11-15-71	NO SAMPLE AVAILABLE - DRY											
12-01-71	1	3.5	0	104	2.6	192	0	1.2	0.03	2.3		
MIN.	0	3.2	0	22	0.2	86	0	0	0	0		
MAX.	12	4.3	0	112	59	221	0	3.2	4.2	12		
AVG.	3.1						0	1.2	0.43	4.7		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 20

DEEP MINE DISCHARGE TO SUSQUEHANNA RIVER NEAR BAKERTON.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T. Fe	S04	ALK	ACD	T. Fe	S04		
01-05-71	82	3.2	0	86	3.6	278	0	85	3.5	274		
02-02-71	34	3.1	0	145	6.0	384	0	59	2.4	157		
03-03-71	156	3.4	0	78	1.9	230	0	146	3.6	431		
04-01-71	70	3.1	0	72	2.4	221	0	60	2.0	185		
05-03-71	70	2.8	0	130	4.7	326	0	109	3.9	274		
06-01-71	12	2.9	0	126	5.2	317	0	18	0.75	46		
07-09-71	2	3.0	0	182	7.6	394	0	4.4	0.18	9.5		
08-02-71	6	2.6	0	172	7.2	806	0	12	0.52	58		
09-01-71	2	2.6	0	296	6.1	490	0	7.1	0.15	12		
10-04-71	2	2.7	0	180	4.6	326	0	4.3	0.11	7.8		
11-15-71	1	2.7	0	222	7.6	413	0	2.7	0.09	5.0		
12-01-71	2	2.7	0	228	7.6	413	0	5.5	0.18	9.9		
MIN.	1	2.6	0	72	1.9	221	0	2.7	0.09	5.0		
MAX.	156	3.4	0	296	7.6	806	0	146	3.9	431		
AVG.	37						0	43	1.4	122		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

SAMPLING STATION 21

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BAKERTON.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-05-71	70	4.5	4	24	0.3	106	3.4	20	0.25	89		
02-02-71	6	4.1	0	60	1.9	192	0	4.3	0.14	14		
03-03-71	12	4.6	2	39	14.5	125	0.29	5.6	2.1	18		
04-01-71	6	4.1	0	34	0.5	115	0	2.4	0.04	8.3		
05-03-71	2	4.0	0	52	2.6	163	0	1.2	0.06	3.9		
06-01-71	2	3.9	0	54	2.0	1,104	0	1.3	0.05	26		
07-09-71	1	3.6	0	60	5.8	173	0	0.72	0.07	2.1		
08-02-71	1	3.3	0	58	2.7	202	0	0.70	0.03	2.4		
09-01-71	1	3.4	0	196	2.0	221	0	2.4	0.02	2.7		
10-04-71	NO SAMPLE AVAILABLE - DRY											
11-15-71	NO SAMPLE AVAILABLE - DRY											
12-01-71	2	3.9	0	120	9.8	173	0	2.9	0.24	4.2		
MIN.	0	3.3	0	24	0.3	106	0	0	0	0		
MAX.	70	4.6	4	196	14.5	1,104	3.4	20	2.1	89		
AVG.	8.6						0.31	3.5	0.25	14		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 22

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BAKERTON.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T. Fe	S04	ALK	ACD	T. Fe	S04		
01-05-71	94	3.4	0	86	3.9	288	0	97	4.4	325		
02-02-71	12	3.2	0	174	16	403	0	25	2.3	58		
03-03-71	193	3.6	0	78	1.5	230	0	181	3.5	534		
04-01-71	123	3.2	0	76	2.9	259	0	112	4.3	383		
05-03-71	34	3.0	0	158	10.4	317	0	64	4.2	129		
06-01-71	34	2.9	0	172	11.3	365	0	70	4.6	149		
07-09-71	12	3.0	0	210	14.9	461	0	30	2.1	66		
08-02-71	12	2.6	0	194	17.1	624	0	28	2.5	90		
09-01-71	12	2.6	0	338	23.5	538	0	49	3.4	77		
10-04-71	34	2.8	0	238	10.9	432	0	97	4.4	176		
11-15-71	6	2.7	0	296	19.4	578	0	21	1.4	37		
12-01-71	6	3.0	0	316	15.6	470	0	23	1.1	34		
MIN.	6	2.6	0	76	1.5	230	0	21	1.1	34		
MAX.	193	3.6	0	338	23.5	624	0	181	4.6	534		
AVG.	48		0				0	66	3.2	172		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 23

STRIP MINE DRAINAGE HEADWATER OF LESLE RUN NEAR BAKERTON

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-06-71	123	6.6	14	0	2.8	77	21	0	4.1	113		
02-02-71	12	3.4	0	118	16	230	0	17	2.3	33		
03-03-71	123	6.9	16	0	2.0	96	24	0	3.0	142		
04-01-71	70	6.0	6	5	3.4	86	5.0	4.2	2.9	73		
05-03-71	34	3.4	0	82	16.1	259	0	33	6.6	106		
06-01-71	12	3.2	0	130	19.2	278	0	19	2.8	40		
07-09-71	2	2.9	0	336	33	586	0	8.1	0.79	14		
08-02-71	1	2.6	0	328	37.5	605	0	3.9	0.45	7.3		
09-01-71	2	2.7	0	336	22.0	346	0	8.1	0.53	8.3		
10-04-71	6	3.2	0	94	10.4	202	0	6.8	0.75	15		
11-15-71	2	2.8	0	248	12.7	341	0	6.0	0.30	8.2		
12-01-71	6	4.4	0	46	5.8	192	0	3.3	0.42	14		
MIN.	1	2.6	0	0	2.0	77	0	0	0.30	7.3		
MAX.	123	6.9	16	336	37.5	605	24	33	6.6	142		
AVG.	33						4.2	9.1	2.1	48		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 24

STRIP MINE WATER TO LESLE RUN NEAR BAKERTON

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	397	5.9	12	10	5.2	221	57	48	25	1,053		
02-03-71	70	3.5	0	126	10	490	0	106	8.4	412		
03-03-71	193	7.6	98	0	0.8	154	227	0	1.9	356		
04-01-71	70	5.8	12	6	2.3	192	10	5.0	1.9	161		
05-03-71	42	3.5	0	92	3.7	326	0	46	1.9	164		
06-01-71	34	3.4	0	106	3.8	346	0	43	1.6	141		
07-09-71	34	3.2	0	200	11	586	0	82	4.5	239		
08-02-71	12	2.8	0	242	14.5	672	0	35	2.1	97		
09-01-71	12	2.8	0	426	31.5	653	0	61	4.5	94		
10-04-71	6	2.9	0	198	9.3	422	0	14	0.67	30		
11-15-71	6	3.0	0	250	14.6	518	0	18	1.1	37		
12-01-71	2	3.1	0	272	19.2	605	0	6.5	0.46	15		
MIN.	2	2.8	0	0	0.8	154	0	0	0.46	15		
MAX.	397	7.6	98	426	31.5	672	227	106	25	1,053		
AVG.	73						25	39	4.5	233		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 25

STRIP MINE SEEPAGE WATER TO LESLE RUN NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-06-71	123	3.4	0	106	2.1	355	0	156	3.1	524		
02-03-71	34	3.4	0	136	2.6	470	0	55	1.1	192		
03-03-71	123	3.5	0	110	1.9	365	0	162	2.8	538		
04-01-71	123	3.2	0	76	1.0	2,381	0	112	1.5	3,514		
05-03-71	12	3.1	0	80	0.8	346	0	12	0.12	50		
06-01-71	50	3.2	0	130	1.1	259	0	78	0.66	155		
07-09-71	1	3.4	0	106	1.1	470	0	1.3	0.01	5.6		
08-02-71	2	3.0	0	168	1.0	538	0	4.0	0.02	13		
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	2	3.0	0	136	0.8	355	0	3.3	0.02	8.5		
11-15-71	1	3.1	0	160	0.7	403	0	1.9	0.01	4.8		
12-01-71	1	3.2	0	146	1.9	470	0	1.8	0.02	5.6		
MIN.	0	3.0	0	76	0.7	259	0	0	0	0		
MAX.	123	3.5	0	168	2.6	2,381	0	162	3.1	3,514		
AVG.	39						0	49	0.78	418		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 26

STRIP MINE SEEPAGE WATER TO LESLE RUN NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	22	4.1	0	23	0.1	154	0	6.1	0.03	41		
02-03-71	50	3.9	0	54	1.2	326	0	32	0.72	196		
03-03-71	34	4.3	0	24	5.0	192	0	9.8	2.0	78		
04-02-71	70	4.1	0	16	0.04	134	0	13	0.03	113		
05-03-71	2	3.7	0	32	0.1	269	0	0.77	0.00	6.5		
06-01-71	6	3.8	0	42	0.4	230	0	3.0	0.03	17		
07-09-71	2	3.7	0	46	0.4	298	0	1.1	0.01	7.2		
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	1	3.5	0	102	0.2	240	0	1.2	0.00	2.9		
11-15-71	1	3.5	0	164	0.6	293	0	2.0	0.01	3.5		
12-01-71	2	3.8	0	104	0.1	221	0	2.5	0.00	5.3		
MIN.	0	3.5	0	16	0.04	134	0	0	0	0		
MAX.	70	4.3	0	164	5.0	326	0	32	2.0	196		
AVG.	16						0	6.0	0.24	39		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 27

DEEP MINE DRAINAGE TO LESLE RUN NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T. Fe	S04	ALK	ACD	T. Fe	S04		
01-06-71	533	3.0	0	208	6.0	480	0	1,330	38	3,070		
02-03-71	400	3.2	0	242	15	595	0	1,162	72	2,856		
03-03-71	533	3.2	0	162	5.2	394	0	1,036	33	2,517		
04-02-71	533	3.1	0	156	10.6	442	0	998	68	2,824		
05-03-71	70	2.8	0	138	5.4	432	0	116	4.5	363		
06-01-71	193	2.9	0	190	5.3	470	0	440	12	1,089		
07-09-71	70	3.1	0	160	15.5	470	0	134	13	395		
08-02-71	34	2.6	0	158	3.8	624	0	64	1.6	255		
09-01-71	12	2.7	0	302	3.4	518	0	43	0.49	75		
10-04-71	12	3.7	0	194	3.0	547	0	28	0.43	79		
11-15-71	12	2.7	0	320	5.4	682	0	46	0.78	98		
12-01-71	12	2.7	0	316	4.7	682	0	46	0.68	98		
MIN.	12	2.6	0	138	3.0	394	0	28	0.43	75		
MAX.	533	3.7	0	320	15.5	682	0	1,330	72	3,070		
AVG.	201		0				0	454	20	1,143		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 28

DEEP MINE SEEPAGE TO LESLE RUN NEAR BAKERTON

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	9	3.0	0	188	10	326	0	20	1.1	35		
02-03-71	6	3.0	0	254	15	509	0	18	1.1	37		
03-03-71	12	3.2	0	142	5.6	288	0	20	0.81	41		
04-02-71	12	3.0	0	135	5.4	298	0	19	0.78	43		
05-03-71	6	2.7	0	194	8.2	413	0	14	0.59	30		
06-01-71	6	2.7	0	174	8.5	451	0	13	0.61	32		
07-09-71	9	3.0	0	232	7.5	538	0	25	0.81	58		
08-02-71	6	2.7	0	212	6.6	720	0	15	0.48	52		
09-01-71	6	2.6	0	382	7.5	672	0	28	0.54	48		
10-40-71	6	3.4	0	176	4.3	566	0	13	0.31	41		
11-15-71	2	2.7	0	342	7.0	672	0	8.2	0.17	16		
12-01-71	6	2.8	0	324	6.0	614	0	23	0.43	44		
MIN.	2	2.6	0	135	4.3	288	0	8.2	0.17	16		
MAX.	12	3.4	0	382	15	720	0	28	1.1	58		
AVG.	7.2						0	18	0.64	40		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 29

DEEP MINE SEEPAGE TO LESLE RUN NEAR BAKERTON ALONG THE RAILROAD TRACKS.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-06-71	22	3.3	0	138	2.0	278	0	36	0.53	73		
02-03-71	NO SAMPLE AVAILABLE - FROZEN											
03-03-71	12	3.3	0	137	4.9	269	0	20	0.71	39		
04-02-71	12	3.1	0	152	7.8	355	0	22	1.1	51		
05-03-71	2	2.7	0	184	9.7	413	0	4.4	0.23	9.9		
06-01-71	6	2.7	0	206	8.9	259	0	15	0.64	19		
07-09-71	6	2.8	0	238	13.9	538	0	17	1.0	39		
08-02-71	12	2.6	0	232	13.4	480	0	33	1.9	69		
09-01-71	6	2.5	0	326	15.2	528	0	23	1.1	38		
10-04-71	6	2.6	0	218	14.3	470	0	16	1.0	34		
11-15-71	6	2.6	0	320	13.5	542	0	23	0.97	39		
12-01-71	6	2.9	0	352	14.1	509	0	25	1.0	37		
MIN.	2	2.5	0	137	2.0	259	0	4.4	0.23	9.9		
MAX.	22	3.3	0	352	15.2	542	0	36	1.9	73		
AVG.	8.7		0				0	21	0.93	41		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 30

REFUSE PILE DUMP SEEPAGE TO SUSQUEHANNA RIVER NEAR BAKERTON ALONG BLACK TOP ROAD

DATE	GPM	pH	PPM						PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	12	2.7	0	205	64	221	0	30	9.2	32		
02-03-71	NO SAMPLE AVAILABLE - FROZEN											
03-03-71	9	3.1	0	106	4.9	163	0	11	0.53	18		
04-02-71	2	3.0	0	126	7.4	173	0	3.0	0.18	4.1		
05-03-71	NO SAMPLE AVAILABLE - DRY											
06-01-71	NO SAMPLE AVAILABLE - DRY											
07-09-71	NO SAMPLE AVAILABLE - DRY											
08-02-71	NO SAMPLE AVAILABLE - DRY											
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-04-71	NO SAMPLE AVAILABLE - DRY											
11-15-71	NO SAMPLE AVAILABLE - DRY											
12-01-71	2	2.3	0	618	110.0	67	0	15	2.6	1.6		
MIN.	0	2.3	0	106	4.9	67	0	0	0	0		
MAX.	12	3.1	0	618	110	221	0	30	9.2	32		
AVG.	2.3							5.4	1.1	5.1		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 31

STREAM WATER THROUGH REFUSE PILE TO SUSQUEHANNA RIVER NEAR BAKERTON

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	1,094	4.5	0	14	0.9	19	0	184	12	252		
02-03-71	50	4.0	0	49	1.9	173	0	29	1.1	104		
03-03-71	694	4.1	0	40	1.6	96	0	333	13	799		
04-02-71	694	4.7	4	10	1.9	58	33	83	16	480		
05-04-71	70	3.7	0	48	1.5	144	0	40	1.3	121		
06-02-71	34	3.4	0	66	2.0	173	0	27	0.82	71		
07-12-71	34	3.3	0	90	6.5	211	0	37	2.7	86		
08-03-71	12	3.5	0	36	8.4	134	0	5.2	1.2	19		
09-02-71	6	3.2	0	178	2.8	163	0	13	0.20	12		
10-04-71	6	3.5	0	94	1.7	134	0	6.8	0.12	9.6		
11-16-71	2	3.8	0	144	3.1	259	0	3.5	0.07	6.2		
12-02-71	2	3.7	0	92	2.0	77	0	2.2	0.05	1.8		
MIN.	2	3.2	0	10	0.9	19	0	2.2	0.05	1.8		
MAX.	1,094	4.7	4	178	8.4	259	33	333	16	799		
AVG.	225		2.8	64				64	4.0	163		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 32

SEEPAGE THROUGH REFUSE PILE TO SUSQUEHANNA RIVER NEAR BAKERTON

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	4	3.4	0	8,148	10.8	9,821	0	391	0.52	471		
02-03-71	2	3.2	0	9,140	10.5	12,989	0	219	0.25	312		
03-03-71	6	3.5	0	6,852	9.4	8,851	0	493	0.68	637		
04-02-71	2	3.4	0	8,696	8.5	8,966	0	209	0.20	215		
05-04-71	2	3.0	0	10,740	8.6	11,126	0	258	0.21	267		
06-02-71	1	3.2	0	7,330	8.5	10,579	0	88	0.10	127		
07-12-71	1	3.3	0	8,500	14.3	989	0	102	0.17	12		
08-03-71	1	2.9	0	7,608	8.0	11,645	0	91	0.10	140		
09-02-71	2	2.9	0	7,286	8.5	7,248	0	175	0.20	174		
10-05-71	2	2.9	0	5,546	10.0	8,390	0	133	0.24	201		
11-16-71	2	3.0	0	9,274	9.8	11,702	0	223	0.24	281		
12-02-71	1	3.0	0	8,290	11.0	10,694	0	99	0.13	128		
MIN.	1	2.9	0	5,546	8.0	989	0	88	0.10	12		
MAX.	6	3.5	0	10,740	14.3	12,989	0	493	0.68	637		
AVG.	2.2		0				0	207	0.25	247		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 33

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BARNES. STERLING NO. 7 PORTAL.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	1,175	2.8	0	622	115	970	0	8,770	1,622	13,677		
02-03-71	846	2.8	0	880	158	1,306	0	8,934	1,604	13,259		
03-03-71	2,338	2.9	0	734	123	902	0	20,593	3,451	25,318		
04-02-71	846	2.8	0	642	121	950	0	6,518	1,228	9,648		
05-04-71	485	2.4	0	826	146	1,152	0	4,807	850	6,705		
06-02-71	302	2.5	0	780	153	1,181	0	2,827	554	4,280		
07-12-71	302	2.7	0	898	199	1,440	0	3,254	721	5,219		
08-03-71	248	2.3	0	944	194.0	154	0	2,809	577	458		
09-02-71	248	2.3	0	1,006	190.0	1,402	0	2,994	565	4,172		
10-05-71	422	2.4	0	804	151.0	1,181	0	4,071	765	5,981		
11-16-71	302	2.4	0	902	172.0	1,363	0	3,269	623	4,940		
12-02-71	302	2.4	0	994	151.0	1,267	0	3,602	547	4,592		
MIN.	248	2.3	0	622	115	154	0	2,809	547	458		
MAX.	2,338	2.9	0	1,006	199	1,440	0	20,593	3,451	25,318		
AVG.	651		0				0	6,037	1,092	8,187		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 34

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BARNES

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	34	3.7	0	92	5.4	221	0	38	2.2	90		
02-03-71	12	3.4	0	196	8.5	509	0	28	1.2	73		
03-03-71	70	3.9	0	74	3.0	250	0	62	2.5	210		
04-02-71	34	3.6	0	68	4.9	278	0	28	2.0	114		
05-04-71	6	3.3	0	176	8.1	413	0	13	0.58	30		
06-02-71	2	3.1	0	222	16.2	499	0	5.3	0.39	12		
07-12-71	2	3.4	0	118	4.4	394	0	2.8	0.11	9.5		
08-03-71	2	3.8	0	48	2.1	240	0	1.2	0.05	5.8		
09-02-71	2	3.2	0	194	3.8	355	0	4.7	0.09	8.5		
10-05-71	2	3.3	0	148	4.3	250	0	3.6	0.10	6.0		
11-16-71	1	3.6	0	146	3.0	250	0	1.8	0.04	3.0		
12-02-71	2	4.1	0	92	2.9	230	0	2.2	0.07	5.5		
MIN.	1	3.1	0	48	2.1	221	0	1.2	0.04	3.0		
MAX.	70	4.1	0	222	16.2	509	0	62	2.5	210		
AVG.	14		0				0	16	0.78	47		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 35

SEEPAGE ALONG CROPLINE TO HOPPEL RUN NEAR LANCASTHIRE #25 MINE

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-06-71	50	6.8	8	0	0.2	0	4.8	0	0.12	0		
02-03-71	NO SAMPLE AVAILABLE - FROZEN											
03-05-71	70	6.8	14	0	0.5	19	12	0	0.42	16		
04-02-71	70	6.8	12	0	1.5	38	10	0	1.3	32		
05-04-71	2	4.7	2	8	0.6	202	0.05	0.19	0.01	4.8		
06-02-71	1	4.2	0	14	1.3	48	0	0.17	0.02	0.58		
07-12-71	NO SAMPLE AVAILABLE - DRY											
08-03-71	2	4.4	4	24	1.0	77	0.10	0.58	0.02	1.8		
09-01-71	NO SAMPLE AVAILABLE - DRY											
10-05-71	NO SAMPLE AVAILABLE - DRY											
11-16-71	NO SAMPLE AVAILABLE - DRY											
12-02-71	2	4.9	8	10	0.5	614	0.19	0.24	0.01	15		
MIN.	0	4.2	0	0	0.2	0	0	0	0	0		
MAX:	70	6.8	14	24	1.5	614	12	0.58	1.3	32		
AVG.	18						2.5	0.11	0.17	6.4		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 36

DEEP MINE DRAINAGE TO HOPPEL RUN NEAR LANCASHIRE #25 MINE

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-06-71	880	5.6	8	8	0.4	470	84	84	4.2	4,963		
02-03-71	284	5.6	14	3	0.4	528	48	10	1.4	1,799		
03-05-71	694	5.1	9	26	0.5	451	75	217	4.2	3,756		
04-02-71	533	5.4	8	10	0.2	480	51	64	1.3	3,070		
05-04-71	284	5.5	8	4	0.4	461	27	14	1.4	1,571		
06-02-71	236	5.6	16	0	1.9	461	45	0	5.4	1,306		
07-12-71	123	6.0	24	4	0.6	509	35	5.9	0.89	751		
08-03-71	70	5.8	22	0	0.6	538	18	0	0.50	452		
09-02-71	94	5.6	28	2	0.6	528	32	2.3	0.68	596		
10-05-71	284	5.3	14	4	0.2	451	48	14	0.68	1,537		
11-16-71	70	5.2	8	8	0.4	509	6.7	6.7	0.34	428		
12-02-71	70	5.8	18	0	0.4	538	15	0	0.34	452		
MIN.	70	5.1	8	0	0.2	451	6.7	0	0.34	428		
MAX.	880	6.0	28	26	1.9	538	84	217	5.4	4,963		
AVG.	302						40	35	1.8	1,723		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 37

STRIP MINE SEEPAGE TO HOPPEL RUN NEAR LANCASTHIRE #15 MINE

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	50	4.1	0	54	1.1	192	0	32	0.66	115		
02-03-71	12	4.1	0	66	1.2	298	0	9.5	0.17	43		
03-05-71	34	4.4	0	38	0.8	202	0	16	0.33	82		
04-02-71	34	4.5	2	34	0.3	202	0.82	14	0.12	82		
05-04-71	6	3.9	0	56	0.6	240	0	4.0	0.04	17		
06-02-71	6	3.9	0	48	0.8	317	0	3.5	0.06	23		
07-12-71	12	3.5	0	86	3.1	317	0	12	0.45	46		
08-02-71	2	3.2	0	106	7.8	326	0	2.5	0.19	7.8		
09-01-71	2	3.3	0	198	1.4	451	0	4.8	0.03	11		
10-05-71	2	3.6	0	118	1.1	403	0	2.8	0.03	9.7		
11-16-71	9	3.2	0	164	11.0	288	0	18	1.2	31		
12-02-71	2	3.6	0	128	2.1	346	0	3.1	0.05	8.3		
MIN.	2	3.2	0	34	0.3	192	0	2.5	0.03	7.8		
MAX.	50	4.5	2	198	11	451	0.82	32	1.2	115		
AVG.	14						0.07	10	0.28	40		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 38

STREAM WATER TO HOPPEL RUN NEAR LANCASHIRE #15 MINE

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-06-71	694	6.8	8	0	0.1	10	67	0	0.83	80		
02-03-71	12	5.6	6	8	2.5	48	0.86	1.2	0.36	6.9		
03-05-71	70	6.8	10	0	1.0	24	8.4	0	0.84	20		
04-02-71	284	6.9	10	0	0.4	250	34	0	1.4	851		
05-04-71	6	6.8	8	0	1.5	29	0.58	0	0.11	2.1		
06-02-71	1	6.3	10	0	0.4	43	0.12	0	0.00	0.52		
07-12-71	12	4.5	2	16	5.1	86	0.29	2.3	0.73	12		
08-03-71	2	2.5	0	216	68.0	298	0	5.2	1.6	7.2		
09-02-71	2	4.2	0	140	1.5	91	0	3.4	0.04	2.2		
10-05-71	6	6.1	12	4	1.6	77	0.86	0.29	0.12	5.5		
11-16-71	6	4.1	0	86	1.2	58	0	6.2	0.09	4.2		
12-02-71	34	6.0	6	4	1.0	67	2.4	1.6	0.41	27		
MIN.	1	2.5	0	0	0.1	10	0	0	0.00	0.52		
MAX.	694	6.9	12	216	68	298	67	6.2	1.6	851		
AVG.	94						9.5	1.7	0.54	85		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 39

SEEPAGE ALONG OUTCROP LINE TO SUSQUEHANNA RIVER NEAR WATKINS

DATE	GPM	pH	PPM					PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>	
01-06-71	28	6.3	6	3	0.2	10	2.0	1.0	0.07	3.2	
02-03-71	NO SAMPLE AVAILABLE - FROZEN										
03-05-71	17	6.0	6	2	0.04	34	1.2	0.41	0.01	6.9	
04-02-71	12	6.2	6	2	0.4	96	0.86	0.29	0.06	14	
05-04-71	1	5.6	6	4	0.2	48	0.07	0.05	0.00	0.58	
06-02-71	1	5.4	6	4	1.0	48	0.07	0.05	0.01	0.58	
07-12-71	NO SAMPLE AVAILABLE - DRY										
08-03-71	1	5.7	6	6	0.6	29	0.07	0.07	0.01	0.35	
09-02-71	NO SAMPLE AVAILABLE - DRY										
10-05-71	NO SAMPLE AVAILABLE - DRY										
11-16-71	NO SAMPLE AVAILABLE - DRY										
12-02-71	6	5.9	8	4	0.04	67	0.58	0.29	0.00	4.8	
MIN.	0	5.4	6	2	0.04	10	0	0	0	0	
MAX.	28	6.3	8	6	1.0	96	2.0	1.0	0.07	14	
AVG.	6.0						0.44	0.20	0.01	2.8	



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 40

DEEP MINE AND STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR WATKINS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	1,175	3.0	0	354	75	787	0	4,991	1,058	11,097		
02-03-71	1,535	3.1	0	414	76	787	0	7,626	1,400	14,497		
03-05-71	3,216	3.0	0	362	67	624	0	13,970	2,586	24,081		
04-02-71	694	2.9	0	302	62	538	0	2,515	516	4,477		
05-04-71	263	2.8	0	394	81	730	0	1,243	256	2,304		
06-02-71	263	2.9	0	388	165	739	0	1,225	521	2,332		
07-12-71	144	3.0	0	542	131	1,440	0	937	226	2,488		
08-03-71	264	2.6	0	706	150.0	1,114	0	2,237	475	3,529		
09-02-71	108	2.5	0	844	170.0	1,219	0	1,094	220	1,580		
10-05-71	264	2.7	0	322	123.0	922	0	1,020	390	2,921		
11-16-71	143	2.7	0	542	104.0	941	0	930	178	1,615		
12-02-71	264	2.6	0	728	164.0	1,066	0	2,306	520	3,377		
MIN.	108	2.5	0	302	62	538	0	930	178	1,580		
MAX.	3,216	3.1	0	844	170	1,440	0	13,970	2,586	24,081		
AVG.	694		0				0	3,341	696	6,192		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 41

SEEPAGE THROUGH REFUSE PILE TO SUSQUEHANNA RIVER NEAR WATKINS

DATE	GPM	pH	PPM					PPD		
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-06-71	34	2.4	0	8,926	690	13,536	0	3,642	282	5,523
02-03-71	12	2.1	0	10,070	665	15,600	0	1,450	96	2,246
03-05-71	22	2.0	0	10,210	585	15,216	0	2,695	154	4,017
04-02-71	12	1.9	0	14,800	665	14,496	0	2,131	96	2,087
05-04-71	6	1.6	0	12,156	570	14,582	0	875	41	1,050
06-02-71	2	1.7	0	10,424	415	14,367	0	250	10	345
07-12-71	1	1.8	0	12,700	410	15,322	0	152	4.9	184
08-03-71	2	1.5	0	11,378	365.0	12,029	0	273	8.8	289
09-02-71	NO SAMPLE AVAILABLE - DRY									
10-05-71	1	1.6	0	11,378	405.0	10,262	0	137	4.9	123
11-16-71	1	1.5	0	12,458	435.0	16,723	0	149	5.2	201
12-02-71	1	1.6	0	13,756	395.0	16,598	0	165	4.7	199
MIN.	0	1.5	0	8,926	365	10,262	0	0	0	0
MAX.	34	2.4	0	14,800	690	16,723	0	3,642	282	5,523
AVG.	7.8						0	993	59	1,355

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 42

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR WATKINS

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-06-71	34	4.6	2	92	12	202	0.82	38	4.9	82		
02-03-71	NO SAMPLE AVAILABLE	-	-	FROZEN								
03-05-71	NO SAMPLE AVAILABLE	-	-	FROZEN								
04-02-71	NO FLOW	3.6	0	70	2.1	259						
05-04-71	NO SAMPLE AVAILABLE	-	-	DRY								
06-02-71	NO SAMPLE AVAILABLE	-	-	DRY								
07-12-71	NO SAMPLE AVAILABLE	-	-	DRY								
08-03-71	12	5.1	8	18	14.0	298	1.2	2.6	2.0	43		
09-02-71	NO SAMPLE AVAILABLE	-	-	DRY								
10-05-71	NO SAMPLE AVAILABLE	-	-	DRY								
11-16-71	NO SAMPLE AVAILABLE	-	-	DRY								
12-02-71	NO SAMPLE AVAILABLE	-	-	DRY								
MIN.	0	3.6	0	18	2.1	202	0	0	0	0		
MAX.	34	5.1	8	92	14	298	1.2	38	4.9	82		
AVG.	4.6						0.20	4.1	0.69	13		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 43

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR WATKINS. LANCASHIRE NUMBER 15 BREAKOUT.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-07-71	397	3.5	0	4,160	2,500	8,410	0	19,818	11,910	40,065		
02-04-71	70	3.0	0	3,945	2,160	7,565	0	3,314	1,814	6,355		
03-05-71	NO SAMPLE	AVAILABLE	-	DRY								
04-02-71	NO SAMPLE	AVAILABLE	-	DRY								
05-04-71	NO SAMPLE	AVAILABLE	-	DRY								
06-02-71	NO SAMPLE	AVAILABLE	-	DRY								
07-12-71	NO SAMPLE	AVAILABLE	-	DRY								
08-03-71	NO SAMPLE	AVAILABLE	-	DRY								
09-02-71	NO SAMPLE	AVAILABLE	-	DRY								
10-05-71	NO SAMPLE	AVAILABLE	-	DRY								
11-16-71	NO SAMPLE	AVAILABLE	-	DRY								
12-02-71	NO SAMPLE	AVAILABLE	-	DRY								
MIN.	0	3.0	0	3,945	2,160	7,565	0	0	0	0		
MAX.	397	3.5	0	4,160	2,500	8,410	0	19,818	11,910	40,065		
AVG.	39						0	1,928	1,144	3,868		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 44  
 DEEP MINE SEEPAGE TO SUSQUEHANNA RIVER NEAR WATKINS. LANCASHIRE NUMBER 15 BREAKOUT.

DATE	GPM	pH	PPM					PPD		
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04
01-07-71	94	3.3	0	3,000	1,460	5,165	0	3,384	1,647	5,826
02-04-71	2	3.1	0	3,210	1,330	5,280	0	77	32	127
03-05-71	12	3.2	0	220	45	365	0	32	6.5	53
04-02-71	9	3.2	0	104	10.8	221	0	11	1.2	24
05-04-71	NO SAMPLE AVAILABLE - DRY									
06-02-71	NO SAMPLE AVAILABLE - DRY									
07-12-71	NO SAMPLE AVAILABLE - DRY									
08-03-71	NO SAMPLE AVAILABLE - DRY									
09-02-71	NO SAMPLE AVAILABLE - DRY									
10-05-71	NO SAMPLE AVAILABLE - DRY									
11-16-71	NO SAMPLE AVAILABLE - DRY									
12-02-71	NO SAMPLE AVAILABLE - DRY									
MIN.	0	3.1	0	104	10.8	221	0	0	0	0
MAX.	94	3.3	0	3,210	1,460	5,280	0	3,384	1,647	5,826
AVG.	9.8						0	292	141	503

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 45  
 DEEP MINE SEEPAGE TO SUSQUEHANNA RIVER NEAR WATKINS. LANCASHIRE NUMBER 15 BREAKOUT.

DATE	GPM	PH	PPM				PPD			
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04
01-07-71	42	3.5	0	642	310	1,632	0	324	156	823
02-04-71	NO SAMPLE	AVAILABLE	-	FROZEN						
03-05-71	6	3.3	0	100	57	173	0	7.2	4.1	12
04-02-71	9	3.3	0	66	9.9	163	0	7.1	1.1	18
05-04-71	NO SAMPLE	AVAILABLE	-	DRY						
06-02-71	NO SAMPLE	AVAILABLE	-	DRY						
07-12-71	NO SAMPLE	AVAILABLE	-	DRY						
08-03-71	NO SAMPLE	AVAILABLE	-	DRY						
09-02-71	NO SAMPLE	AVAILABLE	-	DRY						
10-05-71	NO SAMPLE	AVAILABLE	-	DRY						
11-16-71	NO SAMPLE	AVAILABLE	-	DRY						
12-02-71	NO SAMPLE	AVAILABLE	-	DRY						
MIN.	0	3.3	0	66	9.9	163	0	0	0	0
MAX.	42	3.5	0	642	310	1,632	0	324	156	823
AVG.	5.2						0	31	15	78

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 46

DEEP MINE SEEPAGE TO SUSQUEHANNA RIVER NEAR WATKINS. LANCASHIRE NUMBER 15 BREAKOUT.

DATE	GPM	PH	PPM					PPD		
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-07-71	12	3.5	0	704	153	1,392	0	101	22	200
02-04-71	NO SAMPLE AVAILABLE - FROZEN									
03-05-71	NO SAMPLE AVAILABLE - DRY									
04-02-71	NO SAMPLE AVAILABLE - DRY									
05-04-71	NO SAMPLE AVAILABLE - DRY									
06-02-71	NO SAMPLE AVAILABLE - DRY									
07-12-71	NO SAMPLE AVAILABLE - DRY									
08-03-71	NO SAMPLE AVAILABLE - DRY									
09-02-71	NO SAMPLE AVAILABLE - DRY									
10-05-71	NO SAMPLE AVAILABLE - DRY									
11-16-71	NO SAMPLE AVAILABLE - DRY									
12-02-71	NO SAMPLE AVAILABLE - DRY									
MIN.	0	3.5	0	704	153	1,392	0	0	0	0
MAX.	12	3.5	0	704	153	1,392	0	101	22	200
AVG.	1.1						0	9.2	2.0	18

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 47

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR WATKINS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-07-71	42	7.8	88	0	1.4	173	44	0	0.71	87		
02-04-71	12	7.8	118	0	0.3	182	17	0	0.04	26		
03-05-71	34	8.0	78	0	5.3	125	32	0	2.2	51		
04-02-71	28	8.0	82	0	0.2	144	28	0	0.07	48		
05-04-71	2	7.8	62	0	0.4	154	1.5	0	0.01	3.7		
06-02-71	12	7.3	98	0	7.0	144	14	0	1.0	21		
07-12-71	12	7.5	90	0	1.5	202	13	0	0.22	29		
08-03-71	34	7.1	46	0	5.8	173	19	0	2.4	71		
09-02-71	2	7.1	88	0	1.5	154	2.1	0	0.04	3.7		
10-05-71	12	7.6	98	0	0.7	173	14	0	0.10	25		
11-16-71	1	7.1	86	0	2.5	182	1.0	0	0.03	2.2		
12-02-71	2	7.1	76	0	2.1	182	1.8	0	0.05	4.4		
MIN.	1	7.1	46	0	0.2	125	1.0	0	0.01	2.2		
MAX.	42	8.0	118	0	7.0	202	44	0	2.4	87		
AVG.	16						16	0	0.57	31		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 48

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR WATKINS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-07-71	123	3.8	0	240	4.8	1,200	0	354	7.1	1,771		
02-04-71	12	3.3	0	358	245	922	0	52	35	133		
03-05-71	193	3.5	0	212	23	490	0	491	53	1,135		
04-02-71	70	3.3	0	126	9.9	346	0	106	8.3	290		
05-04-71	6	3.2	0	156	20.2	355	0	11	1.5	26		
06-02-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
07-12-71	34	3.2	0	286	15.1	461	0	117	6.2	188		
08-03-71	34	2.9	0	80	4.9	211	0	33	2.0	86		
09-02-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
10-05-71	2	2.9	0	240	23.5	365	0	5.8	0.56	8.8		
11-16-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
12-02-71	2	3.5	0	134	2.5	163	0	3.2	0.06	3.9		
MIN.	0	2.9	0	80	2.5	163	0	0	0	0		
MAX.	193	3.8	0	358	245	1,200	0	491	53	1,771		
AVG.	40						0	98	9.5	303		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

SAMPLING STATION 49

SEEPAGE THROUGH REFUSE PILE TO SUSQUEHANNA RIVER NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-07-71	70	6.9	118	0	45	403	99	0	38	339		
02-04-71	12	6.5	134	0	25	451	19	0	3.6	65		
03-05-71	1	7.3	92	0	1,450	394	1.1	0	17	4.7		
04-02-71	NO SAMPLE AVAILABLE - DRY											
05-04-71	NO SAMPLE AVAILABLE - DRY											
06-02-71	NO SAMPLE AVAILABLE - DRY											
07-12-71	NO SAMPLE AVAILABLE - DRY											
08-03-71	NO SAMPLE AVAILABLE - DRY											
09-02-71	NO SAMPLE AVAILABLE - DRY											
10-05-71	NO SAMPLE AVAILABLE - DRY											
11-16-71	NO SAMPLE AVAILABLE - DRY											
12-02-71	NO SAMPLE AVAILABLE - DRY											
MIN.	0	6.5	92	0	25	394	0	0	0	0		
MAX.	70	7.3	134	0	1,450	451	99	0	38	339		
AVG.	6.9						9.9	0	4.9	34		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 50

DEEP MINE DRAINAGE THROUGH BOREHOLE TO SUSQUEHANNA RIVER NEAR SPANGLER. VICTOR NUMBER 9.

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-07-71	695	3.2	0	492	103	1,018	0	4,103	859	8,490		
02-04-71	552	3.1	0	560	104	1,142	0	3,709	689	7,565		
03-05-71	695	3.0	0	500	89	922	0	4,170	742	7,689		
04-02-71	552	3.0	0	332	57	614	0	2,199	378	4,070		
05-04-71	302	2.8	0	464	77	998	0	1,682	279	3,617		
06-02-71	302	2.9	0	466	93	835	0	1,689	337	3,026		
07-12-71	302	3.2	0	548	116	998	0	1,986	420	3,617		
08-03-71	197	2.8	0	692	84.0	998	0	1,636	199	2,359		
09-02-71	248	2.8	0	846	156.0	1,229	0	2,518	464	3,658		
10-05-71	552	2.8	0	584	127.0	1,142	0	3,868	841	7,565		
11-16-71	197	3.8	0	692	135.0	1,354	0	1,636	319	3,201		
12-02-71	108	2.9	0	818	124.0	2,314	0	1,060	161	2,999		
MIN.	108	2.8	0	332	57	614	0	1,060	161	2,359		
MAX.	695	3.8	0	846	156	2,314	0	4,170	859	8,490		
AVG.	392		0				0	2,521	474	4,821		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 51

DEEP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-07-71	6	4.6	4	70	0.4	442	0.29	5.0	0.03	32		
02-04-71	NO SAMPLE AVAILABLE - FROZEN											
03-08-71	2	4.7	4	66	0.04	317	0.10	1.6	0.00	7.6		
04-06-71	2	4.3	0	46	0.06	317	0	1.1	0.00	7.6		
05-04-71	1	4.1	0	66	1.2	451	0	0.79	0.01	5.4		
06-02-71	NO SAMPLE AVAILABLE - DRY											
07-12-71	NO SAMPLE AVAILABLE - DRY											
08-03-71	2	3.7	0	76	0.3	374	0	1.8	0.01	9.0		
09-02-71	NO SAMPLE AVAILABLE - DRY											
10-05-71	1	3.8	0	160	0.6	653	0	1.9	0.01	7.8		
11-16-71	1	3.7	0	222	1.4	595	0	2.7	0.02	7.1		
12-02-71	2	4.0	0	138	0.2	1,046	0	3.3	0.00	25		
MIN.	0	3.7	0	46	0.04	317	0	0	0	0		
MAX.	6	4.7	4	222	1.4	1,046	0.29	5.0	0.03	32		
AVG.	1.5						0.04	1.7	0.01	9.2		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 52

DEEP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-07-71	139	4.7	4	68	0.6	422	6.7	113	1.0	704		
02-04-71	34	4.1	0	154	0.2	720	0	63	0.08	294		
03-08-71	108	4.8	4	68	0.1	346	5.2	88	0.13	448		
04-06-71	22	4.6	4	54	0.1	312	1.1	14	0.03	82		
05-04-71	50	4.2	0	84	0.2	470	0	50	0.12	282		
06-02-71	34	4.2	0	118	0.3	538	0	48	0.12	220		
07-12-71	22	4.0	0	92	0.7	451	0	24	0.18	119		
08-03-71	27	3.9	0	68	0.6	547	0	22	0.19	177		
09-02-71	22	3.9	0	220	0.5	586	0	58	0.13	155		
10-05-71	34	4.0	0	178	0.4	605	0	73	0.16	247		
11-16-71	34	4.0	0	280	0.4	931	0	114	0.16	380		
12-02-71	34	4.2	0	142	0.2	595	0	58	0.08	243		
MIN.	22	3.9	0	54	0.1	312	0	14	0.03	82		
MAX.	139	4.8	4	280	0.7	931	6.7	114	1.0	704		
AVG.	47						1.1	60	0.20	279		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 53

DEEP MINE DRAINAGE NEAR ST. BENEDICT TO FOX RUN

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-07-71	60	3.5	0	74	1.2	269	0	53	0.86	194		
02-04-71	NO SAMPLE AVAILABLE - FROZEN											
03-08-71	70	3.8	0	60	0.9	240	0	50	0.76	202		
04-06-71	34	3.6	0	58	0.6	192	0	24	0.24	78		
05-04-71	2	3.6	0	42	0.3	259	0	1.0	0.01	6.2		
06-02-71	1	3.5	0	58	0.5	250	0	0.70	0.01	3.0		
07-12-71	2	3.5	0	68	1.9	336	0	1.6	0.05	8.1		
08-03-71	2	3.3	0	50	1.5	86	0	1.2	0.04	2.1		
09-02-71	1	3.3	0	152	1.3	432	0	1.8	0.02	5.2		
10-05-71	2	3.4	0	114	1.5	384	0	2.7	0.04	9.2		
11-16-71	2	3.5	0	152	0.8	451	0	3.6	0.02	11		
12-02-71	6	3.3	0	176	1.7	374	0	13	0.12	27		
MIN.	1	3.3	0	42	0.3	86	0	0.70	0.01	2.1		
MAX.	70	3.8	0	176	1.9	451	0	53	0.86	202		
AVG.	17						0	14	0.20	50		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 54

STRIP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-08-71	28	4.6	6	22	0.3	442	2.0	7.4	0.10	149		
02-04-71	12	4.4	4	52	1.4	614	0.58	7.5	0.20	88		
03-08-71	12	5.1	6	20	0.06	326	0.86	2.9	0.01	47		
04-06-71	12	4.9	4	16	0.2	259	0.58	2.3	0.03	37		
05-04-71	6	4.4	2	26	0.06	365	0.14	1.9	0.00	26		
06-02-71	2	4.4	2	48	0.9	562	0.05	1.2	0.02	13		
07-12-71	1	4.1	0	40	0.2	538	0	0.48	0.00	6.5		
08-03-71	6	4.1	0	22	0.3	240	0	1.6	0.02	17		
09-02-71	1	3.9	0	162	0.5	490	0	1.9	0.01	5.9		
10-05-71	9	4.1	0	122	0.4	624	0	13	0.04	67		
11-16-71	9	3.5	0	154	0.4	557	0	17	0.04	60		
12-02-71	2	4.4	2	42	0.2	374	0.05	1.0	0.00	9.0		
MIN.	1	3.5	0	16	0.06	240	0	0.48	0.00	5.9		
MAX.	28	5.1	6	162	1.4	624	2.0	17	0.20	149		
AVG.	8.3						0.36	4.8	0.04	44		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 55

STRIP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-08-71	42	5.7	8	4	0	269	4.0	2.0	0	136		
02-04-71	2	5.6	8	6	0.1	355	0.19	0.14	0.00	8.5		
03-08-71	2	6.1	6	4	0.2	211	0.14	0.10	0.00	5.1		
04-06-71	9	6.0	8	4	0.7	202	0.86	0.43	0.08	22		
05-04-71	2	5.6	4	4	0	269	0.10	0.10	0	6.5		
06-02-71	2	5.6	4	6	0.5	269	0.10	0.14	0.01	6.5		
07-12-71	1	5.5	4	6	0.2	346	0.05	0.07	0.00	4.2		
08-03-71	27	5.4	12	8	0.6	202	3.9	2.6	0.19	65		
09-02-71	2	5.6	14	6	0.4	538	0.34	0.14	0.01	13		
10-05-71	2	5.5	6	6	0.5	384	0.14	0.14	0.01	9.2		
11-16-71	2	5.3	12	6	0.04	413	0.29	0.14	0.00	9.9		
12-02-71	6	5.3	4	10	0.04	326	0.29	0.72	0.00	23		
MIN.	1	5.3	4	4	0	202	0.05	0.07	0	4.2		
MAX.	42	6.1	14	10	0.7	538	4.0	2.6	0.19	136		
AVG.	8.3						0.87	0.56	0.03	26		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 56

STRIP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-08-71	6	5.5	6	6	0.7	240	0.43	0.43	0.05	17		
02-04-71	NO SAMPLE AVAILABLE - FROZEN											
03-08-71	2	5.8	6	6	2.3	154	0.14	0.14	0.06	3.7		
04-06-71	34	5.7	8	10	0.1	197	3.3	4.1	0.04	80		
05-04-71	NO SAMPLE AVAILABLE - DRY											
06-02-71	NO SAMPLE AVAILABLE - DRY											
07-12-71	NO SAMPLE AVAILABLE - DRY											
08-03-71	2	5.3	10	6	0.5	125	0.24	0.14	0.01	3.0		
09-02-71	NO SAMPLE AVAILABLE - DRY											
10-05-71	NO SAMPLE AVAILABLE - DRY											
11-16-71	NO SAMPLE AVAILABLE - DRY											
12-02-71	2	5.1	4	6	0.02	240	0.10	0.14	0.00	5.8		
MIN.	0	5.1	4	6	0.02	125	0	0	0	0		
MAX.	34	5.8	10	10	2.3	240	3.3	4.1	0.06	80		
AVG.	4.2						0.38	0.45	0.01	10		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 57

STRIP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-08-71	12	4.9	6	16	0.2	211	0.86	2.3	0.03	30		
02-04-71	2	5.7	8	4	0.3	96	0.19	0.10	0.01	2.3		
03-08-71	1	5.8	6	5	37	67	0.07	0.06	0.44	0.80		
04-06-71	28	5.8	10	8	0.4	58	3.4	2.7	0.13	19		
05-04-71	2	5.8	6	0	0	58	0.14	0	0	1.4		
06-02-71	2	5.8	12	0	0.04	48	0.29	0	0.00	1.2		
07-12-71	1	5.7	8	4	0.2	134	0.10	0.05	0.00	1.6		
08-03-71	1	5.6	12	6	0.5	96	0.14	0.07	0.01	1.2		
09-02-71	1	5.7	18	2	0.1	134	0.22	0.02	0.00	1.6		
10-05-71	2	5.3	10	6	1.2	134	0.24	0.14	0.03	3.2		
11-16-71	2	4.1	0	94	1.1	192	0	2.3	0.03	4.6		
12-02-71	2	4.9	2	20	0.0	192	0.05	0.48	0	4.6		
MIN.	1	4.1	0	0	0	48	0	0	0	0.80		
MAX.	28	5.8	18	94	37	211	3.4	2.7	0.44	30		
AVG.	4.7						0.48	0.69	0.06	6.0		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 58

STRIP MINE SEEPAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-08-71	70	6.4	10	0	0.1	67	8.4	0	0.08	56		
02-05-71	12	6.5	12	0	0.3	67	1.7	0	0.04	9.7		
03-08-71	34	6.7	10	0	0.5	38	4.1	0	0.20	16		
04-06-71	22	6.5	12	0	0.06	48	3.2	0	0.02	13		
05-04-71	2	6.4	10	0	1.3	53	0.24	0	0.03	1.3		
06-02-71	1	6.4	24	0	3.2	38	0.29	0	0.04	0.46		
07-12-71	NO SAMPLE AVAILABLE	- DRY										
08-03-71	1	7.0	40	0	8.7	19	0.48	0	0.10	0.23		
09-02-71	NO SAMPLE AVAILABLE	- DRY										
10-05-71	2	6.1	30	0	0.08	86	0.72	0	0.00	2.1		
11-16-71	1	6.1	14	0	9.9	96	0.17	0	0.12	1.2		
12-02-71	2	6.0	10	0	0.06	67	0.24	0	0.00	1.6		
MIN.	0	6.0	10	0	0.06	19	0	0	0	0		
MAX.	70	7.0	40	0	9.9	96	8.4	0	0.20	56		
AVG.	12						1.6	0	0.05	8.5		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 59

STRIP MINE SEEPAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-08-71	2	6.7	16	0	1.3	67	0.38	0	0.03	1.6		
02-05-71	NO SAMPLE AVAILABLE - FROZEN											
03-08-71	2	7.5	20	0	2.1	29	0.48	0	0.05	0.70		
04-06-71	NO FLOW		94	0	0.3	29						
05-04-71	2	7.6	148	0	1.0	48	3.6	0	0.02	1.2		
06-02-71	NO SAMPLE AVAILABLE - DRY											
07-12-71	NO SAMPLE AVAILABLE - DRY											
08-03-71	1	7.3	92	0	4.9	96	1.1	0	0.06	1.2		
09-02-71	NO SAMPLE AVAILABLE - DRY											
10-05-71	NO SAMPLE AVAILABLE - DRY											
11-16-71	NO SAMPLE AVAILABLE - DRY											
12-02-71	3	6.3	10	0	0.1	67	0.36	0	0.00	2.4		
MIN.	0	6.3	10	0	0.1	29	0	0	0	0		
MAX.	3	7.6	148	0	4.9	96	3.6	0	0.06	2.4		
AVG.	0.91						0.54	0	0.01	0.65		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 60

STRIP MINE SEEPAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM						PPD		
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04	
01-08-71	17	6.9	14	0	0.1	38					
02-05-71	NO SAMPLE	AVAILABLE	-	FROZEN							
03-08-71	12	7.2	14	0	0	48					
04-06-71	NO SAMPLE	AVAILABLE	-	DRY							
05-04-71	NO SAMPLE	AVAILABLE	-	DRY							
06-02-71	NO SAMPLE	AVAILABLE	-	DRY							
07-12-71	NO SAMPLE	AVAILABLE	-	DRY							
08-03-71	NO SAMPLE	AVAILABLE	-	DRY							
09-02-71	NO SAMPLE	AVAILABLE	-	DRY							
10-05-71	NO SAMPLE	AVAILABLE	-	DRY							
11-16-71	NO SAMPLE	AVAILABLE	-	DRY							
12-02-71	NO SAMPLE	AVAILABLE	-	DRY							
MIN.	0	6.9	14	0	0	38					
MAX.	17	7.2	14	0	0.1	48					
AVG.	2.6						0.45	0	0.00	0	1.3

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 61

DEEP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-08-71	139	2.8	0	122	14	278	0	203	23	464		
02-04-71	2	3.0	0	248	26	442	0	6.0	0.62	11		
03-08-71	123	3.3	0	145	9.7	259	0	214	14	382		
04-06-71	34	3.1	0	134	9.4	230	0	55	3.8	94		
05-05-71	NO SAMPLE	AVAILABLE	-	DRY								
06-03-71	NO SAMPLE	AVAILABLE	-	DRY								
07-13-71	NO SAMPLE	AVAILABLE	-	DRY								
08-04-71	2	2.6	0	120	3.3	134	0	2.9	0.08	3.2		
09-07-71	NO SAMPLE	AVAILABLE	-	DRY								
10-06-71	12	2.2	0	792	92.0	854	0	114	13	123		
11-17-71	NO SAMPLE	AVAILABLE	-	DRY								
12-03-71	6	2.4	0	474	49.5	490	0	34	3.6	35		
MIN.	0	2.2	0	120	3.3	134	0	0	0	0		
MAX.	139	3.3	0	792	92	854	0	214	23	464		
AVG.	27						0	52	4.8	93		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 62

DEEP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM							
			ALK	ACD	T. Fe	SO <sub>4</sub>	ALK	ACD	T. Fe	SO <sub>4</sub>
01-08-71	70	4.0	0	14	0.1	106	0	12	0.08	89
02-05-71	12	4.0	0	26	0.3	192	0	3.7	0.04	28
03-08-71	34	4.5	0	17	46	96	0	6.9	19	39
04-06-71	12	4.3	0	16	0.04	106	0	2.3	0.01	15
05-05-71	6	3.9	0	16	0.08	134	0	1.2	0.01	9.6
06-03-71	12	4.0	0	20	0.2	163	0	2.9	0.03	23
07-13-71	6	4.6	2	14	0.1	326	0.14	1.0	0.01	23
08-04-71	9	4.4	0	12	0.1	115	0	1.3	0.01	12
09-07-71	6	4.4	2	22	0.3	163	0.14	1.6	0.02	12
10-06-71	9	3.6	0	120	0.2	240	0	13	0.02	26
11-17-71	9	3.9	0	80	0.2	182	0	8.6	0.02	20
12-03-71	6	3.9	0	80	0.06	144	0	5.8	0.00	10
MIN.	6	3.6	0	12	0.04	96	0	1.0	0.00	9.6
MAX.	70	4.6	2	120	46	326	0.14	13	19	89
AVG.	16						0.02	5.0	1.6	26

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 63

DEEP MINE DRAINAGE TO FOX RUN NEAR ST. BENEDICT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-08-71	784	6.8	14	0	1.1	192	132	0	10	1,806		
02-05-71	193	6.5	14	0	0.1	259	32	0	0.23	600		
03-08-71	694	7.3	16	0	0.1	134	133	0	0.83	1,116		
04-06-71	123	7.2	14	0	0.2	154	21	0	0.30	227		
05-05-71	70	7.2	14	0	0.7	240	12	0	0.59	202		
06-03-71	12	7.2	24	0	3.2	250	3.5	0	0.46	36		
07-13-71	6	7.5	14	0	0.1	250	1.0	0	0.01	18		
08-04-71	12	6.7	10	0	0.4	221	1.4	0	0.06	32		
09-07-71	2	6.6	12	0	0.5	374	0.29	0	0.01	9.0		
10-06-71	2	6.8	18	0	0.2	211	0.43	0	0.00	5.1		
11-17-71	2	7.1	14	0	0.1	288	0.34	0	0.00	6.9		
12-03-71	2	6.8	16	0	0.1	298	0.38	0	0	7.2		
MIN.	2	6.5	10	0	0.1	134	0.29	0	0	5.1		
MAX.	784	7.5	24	0	3.2	374	133	0	10	1,806		
AVG.	159						28	0	1.0	339		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 64

DEEP MINE DRAINAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-11-71	174	5.1	6	6	0.6	317	13	13	1.3	662		
02-05-71	70	4.6	5	10	0.8	413	8.4	8.4	0.67	347		
03-08-71	174	5.7	8	10	0.5	250	17	21	1.0	522		
04-06-71	70	5.4	4	8	0.5	298	3.4	6.7	0.42	250		
05-05-71	60	4.6	2	8	0.6	374	1.4	5.8	0.43	269		
06-03-71	60	5.3	10	8	0.4	480	7.2	5.8	0.29	346		
07-13-71	22	5.3	6	10	1.1	403	1.6	2.6	0.29	106		
08-04-71	27	4.7	10	10	0.8	413	3.2	3.2	0.26	134		
09-07-71	34	4.0	0	132	2.2	470	0	54	0.90	192		
10-06-71	34	4.7	8	10	1.0	384	3.3	4.1	0.41	157		
11-17-71	28	3.9	0	96	1.3	595	0	32	0.44	200		
12-03-71	12	3.7	0	74	1.6	470	0	11	0.23	68		
MIN.	12	3.7	0	6	0.4	250	0	2.6	0.23	68		
MAX.	174	5.7	10	132	2.2	595	17	54	1.3	662		
AVG.	64						4.5	14	0.55	271		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 65

STRIP MINE SEEPAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4
01-11-71	2	5.1	10	10	1.5	96	0.24	0.24	0.04	2.3
02-05-71	NO SAMPLE AVAILABLE - FROZEN									
03-08-71	2	5.6	6	8	25	38	0.14	0.19	0.60	0.91
04-06-71	NO FLOW		4	16	0.2	96				
05-05-71	NO SAMPLE AVAILABLE - DRY									
06-03-71	NO SAMPLE AVAILABLE - DRY									
07-13-71	NO SAMPLE AVAILABLE - DRY									
08-04-71	2	4.5	10	10	42.0	48	0.24	0.24	1.0	1.2
09-07-71	NO SAMPLE AVAILABLE - DRY									
10-06-71	NO SAMPLE AVAILABLE - DRY									
11-17-71	NO SAMPLE AVAILABLE - DRY									
12-03-71	1	4.7	6	22	1.8	19	0.07	0.26	0.02	0.23
MIN.	0	4.5	4	8	0.2	19	0	0	0	0
MAX.	2	5.6	10	22	42	96	0.24	0.26	1.0	2.3
AVG.	0.64						0.06	0.08	0.15	0.42

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 66

STRIP MINE DRAINAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-11-71	94	6.1	9	2	0.1	125	10	2.3	0.11	141		
02-05-71	34	5.4	4	4	0.2	86	1.6	1.6	0.08	35		
03-08-71	70	5.9	6	4	0.06	58	5.0	3.4	0.05	49		
04-06-71	34	5.9	6	6	0.02	62	2.4	2.4	0.01	25		
05-05-71	2	5.3	6	4	0.04	67	0.14	0.10	0.00	1.6		
06-03-71	1	5.2	4	6	0.04	96	0.05	0.07	0.00	1.2		
07-13-71	NO SAMPLE AVAILABLE		-	DRY								
08-04-71	1	5.0	6	6	1.5	48	0.07	0.07	0.02	0.58		
09-07-71	1	4.9	8	6	0.2	192	0.10	0.07	0.00	2.3		
10-06-71	1	5.8	6	4	0.1	134	0.07	0.05	0.00	1.6		
11-17-71	NO SAMPLE AVAILABLE		-	DRY								
12-03-71	2	5.7	6	6	0.1	125	0.14	0.14	0.00	3.0		
MIN.	0	4.9	4	2	0.02	48	0	0	0	0		
MAX.	94	6.1	9	6	1.5	192	10	3.4	0.11	141		
AVG.	20						1.6	0.85	0.02	22		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 67

STRIP MINE SEEPAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-11-71	34	5.3	8	3	0	96	3.3	1.2	0	39		
02-05-71	12	5.3	8	4	0.0	115	1.2	0.58	0	17		
03-08-71	12	5.7	8	4	0.02	48	1.2	0.58	0.00	6.9		
04-06-71	34	5.7	6	6	0.02	67	2.4	2.4	0.01	27		
05-05-71	2	5.3	6	4	0.6	67	0.14	0.10	0.01	1.6		
06-03-71	2	5.2	6	6	0.2	77	0.14	0.14	0.00	1.8		
07-13-71	1	5.5	6	2	0.1	106	0.07	0.02	0.00	1.3		
08-04-71	2	5.0	12	4	.06	38	0.29	0.10	0.00	0.91		
09-07-71	2	5.1	8	4	0.1	86	0.19	0.10	0.00	2.1		
10-06-71	2	5.1	8	4	1.2	86	0.19	0.10	0.03	2.1		
11-17-71	2	5.2	8	2	0.2	96	0.19	0.05	0.00	2.3		
12-03-71	2	5.2	6	4	0.1	86	0.14	0.10	0.00	2.1		
MIN.	1	5.0	6	2	0	38	0.07	0.02	0	0.91		
MAX.	34	5.7	12	6	1.2	115	3.3	2.4	0.03	39		
AVG.	8.9						0.79	0.46	0.00	8.7		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 68

STRIP MINE SEEPAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-11-71	42	5.7	8	2	0.2	106	4.0	1.0	0.10	53		
02-05-71	12	5.6	8	2	0	96	1.2	0.29	0	14		
03-08-71	34	6.1	8	2	0.02	67	3.3	0.82	0.01	27		
04-06-71	12	6.0	6	4	0.02	67	0.86	0.58	0.00	9.7		
05-05-71	6	5.7	8	1	0	96	0.58	0.07	0	6.9		
06-03-71	6	5.7	8	4	0.4	96	0.58	0.29	0.03	6.9		
07-13-71	2	6.2	10	0	0.04	77	0.24	0	0.00	1.8		
08-04-71	6	5.7	8	4	0.1	48	0.58	0.29	0.01	3.5		
09-07-71	9	5.6	10	2	0.5	125	1.1	0.22	0.05	14		
10-06-71	22	5.5	10	4	0.1	106	2.6	1.1	0.03	28		
11-17-71	1	5.8	10	0	0.06	125	0.12	0	0.00	1.5		
12-03-71	2	5.9	8	0	0.5	77	0.19	0	0.01	1.8		
MIN.	1	5.5	6	0	0	48	0.12	0	0	1.5		
MAX.	42	6.2	10	4	0.5	125	4.0	1.1	0.10	53		
AVG.	13		1.3	0.39	0.02	14						

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 69

STRIP MINE SEEPAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-11-71	4	6.6	10	0	0.2	67	0.48	0	0.01	3.2
02-05-71	12	6.0	10	2	0.4	48	1.4	0.29	0.06	6.9
03-08-71	34	6.9	10	0	0.9	38	4.1	0	0.37	16
04-06-71	34	7.0	10	0	0.1	48	4.1	0	0.04	20
05-05-71	2	6.8	8	0	0.04	38	0.19	0	0.00	0.91
06-03-71	2	6.7	12	0	1.8	48	0.29	0	0.04	1.2
07-13-71	NO SAMPLE AVAILABLE		- DRY							
08-04-71	2	6.4	12	4	2.4	19	0.29	0.10	0.06	0.46
09-01-71	1	6.6	8	0	0.3	86	0.10	0	0.00	1.0
10-06-71	1	6.8	6	0	0.1	67	0.07	0	0.00	0.80
11-17-71	NO SAMPLE AVAILABLE		- DRY							
12-03-71	1	6.1	6	0	0.4	48	0.07	0	0.00	0.58
MIN.	0	6.0	6	0	0.04	19	0	0	0	0
MAX.	34	7.0	12	4	2.4	86	4.1	0.29	0.37	20
AVG.	7.8						0.92	0.03	0.05	4.3

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 70

STRIP MINE DRAINAGE TO FOX RUN NEAR HASTINGS

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-11-71	22	3.6	0	50	4.3	538	0	13	1.1	142		
02-05-71	70	4.1	0	26	6.0	269	0	22	5.0	226		
03-09-71	70	4.0	0	46	3.1	403	0	39	2.6	339		
04-06-71	12	3.8	0	54	3.2	494	0	7.8	0.46	71		
05-05-71	12	3.3	0	84	4.1	749	0	12	0.59	108		
06-03-71	12	3.6	0	56	0.8	346	0	8.1	0.12	50		
07-13-71	2	3.7	0	96	1.5	826	0	2.3	0.04	20		
08-04-71	12	3.4	0	68	1.5	509	0	9.8	0.22	73		
09-07-71	2	3.4	0	162	1.4	509	0	3.9	0.03	12		
10-06-71	2	3.3	0	140	1.5	576	0	3.4	0.04	14		
11-17-71	6	3.2	0	228	5.4	902	0	16	0.39	65		
12-03-71	6	3.3	0	138	2.4	461	0	9.9	0.17	33		
MIN.	2	3.2	0	26	0.8	269	0	2.3	0.03	12		
MAX.	70	4.1	0	228	6.0	902	0	39	5.0	339		
AVG.	19		0				0	12	0.90	96		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 71

STRIP MINE SEEPAGE TO FOX RUN NEAR SPANGLER

DATE	GPM	pH	PPM				PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>	
01-11-71	6	5.2	6	10	2.4	125	0.43	0.72	0.17	9.0	
02-05-71	NO SAMPLE AVAILABLE - FROZEN										
03-09-71	17	4.8	3	12	1.5	67	0.61	2.4	0.31	14	
04-06-71	6	4.5	2	12	8.5	86	0.14	0.86	0.61	6.2	
05-05-71	NO SAMPLE AVAILABLE - DRY										
06-03-71	NO SAMPLE AVAILABLE - DRY										
07-13-71	NO SAMPLE AVAILABLE - DRY										
08-04-71	2	3.6	0	24	5.4	250	0	0.58	0.13	6.0	
09-07-71	2	3.6	0	152	4.5	240	0	3.6	0.11	5.8	
10-06-71	NO SAMPLE AVAILABLE - DRY										
11-17-71	NO SAMPLE AVAILABLE - DRY										
12-03-71	2	4.4	8	72	0.9	106	0.19	1.7	0.02	2.5	
MIN.	0	3.6	0	10	0.9	67	0	0	0	0	
MAX.	17	5.2	8	152	8.5	250	0.61	3.6	0.61	14	
AVG.	3.2						0.12	0.90	0.12	4.0	



MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 72  
 DEEP MINE DRAINAGE TO FOX RUN NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-11-71	12	6.4	32	10	29	519	4.6	1.4	4.2	75		
02-05-71	397	6.1	22	10	25	490	105	48	119	2,334		
03-09-71	34	6.8	26	9	26	509	11	3.7	11	208		
04-06-71	12	5.9	22	10	31	461	3.2	1.4	4.5	66		
05-05-71	22	6.2	26	10	28.5	499	6.9	2.6	7.5	132		
06-03-71	12	7.3	42	0	40.5	586	6.0	0	5.8	84		
07-13-71	6	6.2	20	24	35	480	1.4	1.7	2.5	35		
08-04-71	12	5.8	24	16	28.5	470	3.5	2.3	4.1	68		
09-07-71	2	5.8	20	0	90.5	566	0.48	0	2.2	14		
10-06-71	2	6.0	8	22	33.0	538	0.19	0.53	0.79	13		
11-17-71	6	5.7	18	22	33.0	547	1.3	1.6	2.4	39		
12-03-71	6	5.9	16	18	24.5	528	1.2	1.3	1.8	38		
MIN.	2	5.7	8	0	24.5	461	0.19	0	0.79	13		
MAX.	397	7.3	42	24	90.5	586	105	48	119	2,334		
AVG.	44						12	5.4	14	259		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 73

DEEP MINE SEEPAGE TO FOX RUN NEAR SPANGLER

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04
01-11-71	9	4.9	4	10	0.1	202	0.43	1.1	0.01	22
02-05-71	12	6.6	26	0	0.6	115	3.7	0	0.09	17
03-09-71	12	5.3	6	10	0.2	202	0.86	1.4	0.03	29
04-06-71	12	4.7	4	14	0	206	0.58	2.0	0	30
05-05-71	12	4.5	2	10	0.02	346	0.29	1.4	0.00	50
06-03-71	6	7.6	64	0	0.4	259	4.6	0	0.03	19
07-13-71	2	7.8	68	0	1.7	182	1.6	0	0.04	4.4
08-04-71	6	7.4	78	0	0.4	38	5.6	0	0.03	2.7
09-07-71	2	7.4	76	0	0.2	173	1.8	0	0.00	4.2
10-06-71	6	7.7	78	0	0.7	221	5.6	0	0.05	16
11-17-71	2	7.4	34	0	0.9	250	0.82	0	0.02	6.0
12-03-71	2	7.2	46	0	0.5	202	1.1	0	0.01	4.8
MIN.	2	4.5	2	0	0	38	0.29	0	0	2.7
MAX.	12	7.8	78	14	1.7	346	5.6	2.0	0.09	50
AVG.	6.9						2.2	0.49	0.03	17

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 74

DEEP MINE DRAINAGE TO FOX RUN NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-11-71	70	7.2	36	0	0.5	230	30	0	0.42	193		
02-05-71	70	6.9	30	0	0.7	125	25	0	0.59	105		
03-09-71	123	7.6	38	0	0.3	221	56	0	0.44	326		
04-06-71	12	8.0	36	0	0.3	202	5.2	0	0.04	29		
05-05-71	6	7.7	46	0	0.1	278	3.3	0	0.01	20		
06-03-71	6	5.3	8	10	0.2	394	0.58	0.72	0.01	28		
07-13-71	NO SAMPLE AVAILABLE - DRY											
08-04-71	2	4.2	0	24	0.4	346	0	0.58	0.01	8.3		
09-07-71	NO SAMPLE AVAILABLE - DRY											
10-06-71	6	4.6	4	10	0.2	182	0.29	0.72	0.01	13		
11-17-71	1	4.7	6	10	0.1	432	0.07	0.12	0.00	5.2		
12-03-71	2	4.7	10	12	0.4	269	0.24	0.29	0.01	6.5		
MIN.	0	4.2	0	0	0.1	125	0	0	0	0		
MAX.	123	8.0	46	24	0.7	432	56	0.72	0.59	326		
AVG.	25						10	0.20	0.13	61		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 75

DEEP MINE DRAINAGE THROUGH BOREHOLE TO FOX RUN NEAR SPANGLER. VICTOR NUMBER 9.

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-11-71	695	3.0	0	146	39	576	0	1,218	325	4,804		
02-05-71	552	3.2	0	202	36	634	0	1,338	238	4,200		
03-09-71	846	3.2	0	236	38	605	0	2,396	386	6,142		
04-06-71	552	3.1	0	196	34	518	0	1,298	225	3,434		
05-05-71	552	2.7	0	202	49	605	0	1,338	325	4,008		
06-03-71	422	2.9	0	262	58.5	677	0	1,327	296	3,428		
07-13-71	422	3.1	0	190	50.5	672	0	962	256	3,403		
08-04-71	485	2.6	0	228	47.0	653	0	1,327	274	3,800		
09-07-71	485	2.6	0	426	53.5	710	0	2,479	311	4,132		
10-06-71	422	2.6	0	300	43.5	653	0	1,519	220	3,307		
11-17-71	485	2.8	0	336	47.5	682	0	1,956	276	3,969		
12-03-71	302	2.6	0	294	40.0	653	0	1,065	145	2,366		
MIN.	302	2.6	0	146	34	518	0	962	145	2,366		
MAX.	846	3.2	0	426	58.5	710	0	2,479	386	6,142		
AVG.	518		0				0	1,519	273	3,916		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 76

DEEP MINE DRAINAGE TO BROWNS RUN NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-12-71	22	7.7	98	0	0.7	154	26	0	0.18	41		
02-05-71	12	7.2	58	0	0.5	125	8.4	0	0.07	18		
03-09-71	50	8.0	96	0	0.5	154	58	0	0.30	92		
04-07-71	22	8.3	116	0	0.4	134	31	0	0.11	35		
05-05-71	12	7.8	84	0	1.7	163	12	0	0.24	23		
06-03-71	12	7.2	70	0	5.2	154	10	0	0.75	22		
07-13-71	2	7.6	48	0	4.7	125	1.2	0	0.11	3.0		
08-04-71	2	6.9	38	0	13.2	230	0.91	0	0.32	5.5		
09-02-71	2	6.9	12	0	0.6	178	0.29	0	0.01	4.3		
10-06-71	1	6.6	14	0	1.3	211	0.17	0	0.02	2.5		
11-17-71	1	7.0	26	0	1.5	240	0.31	0	0.02	2.9		
12-03-71	2	6.8	12	0	0.4	125	0.29	0	0.01	3.0		
MIN.	1	6.6	12	0	0.4	125	0.17	0	0.01	2.5		
MAX.	50	8.3	116	0	13.2	240	58	0	0.75	92		
AVG.	12						12	0	0.18	21		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 77

STRIP MINE DRAINAGE TO BROWNS RUN NEAR SPANGLER

DATE	GPM	pH	ALK	ACD	T.Fe	SO4	PPD			
							ALK	ACD	T.Fe	SO4
01-12-71	17	4.4	4	16	0.5	58	0.82	3.3	0.10	12
02-05-71	2	4.2	0	22	1.2	86	0	0.53	0.03	2.1
03-09-71	34	4.9	4	8	0.1	38	1.6	3.3	0.04	16
04-07-71	2	4.7	4	8	0.3	19	0.10	0.19	0.01	0.46
05-05-71	2	4.1	0	8	0.9	19	0	0.19	0.02	0.46
06-03-71	NO SAMPLE AVAILABLE - DRY									
07-13-71	NO SAMPLE AVAILABLE - DRY									
08-04-71	2	2.9	0	60	14.0	38	0	1.4	0.34	0.91
09-07-71	1	3.1	0	166	4.9	106	0	2.0	0.06	1.3
10-06-71	1	3.6	0	96	1.5	67	0	1.2	0.02	0.80
11-17-71	1	3.9	0	88	1.0	48	0	1.1	0.01	0.58
12-03-71	2	4.3	2	50	0.2	38	0.05	1.2	0.00	0.91
MIN.	0	2.9	0	8	0.1	19	0	0	0	0
MAX.	34	4.9	4	166	14	106	1.6	3.3	0.34	16
AVG.	5.3						0.21	1.2	0.05	3.0

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 78

DEEP MINE DRAINAGE TO BROWNS RUN NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-12-71	3,924	7.0	50	0	5.0	307	2,354	0	235	14,456		
02-05-71	1,928	6.8	214	0	4.5	326	4,951	0	104	7,542		
03-09-71	2,338	7.3	174	0	4.2	278	4,882	0	118	7,800		
04-07-71	1,351	7.7	148	0	4.0	240	2,399	0	65	3,891		
05-05-71	739	6.9	152	0	6.1	250	1,348	0	54	2,217		
06-03-71	739	6.8	130	0	5.8	259	1,153	0	51	2,297		
07-13-71	404	7.2	106	0	3.0	221	514	0	15	1,071		
08-04-71	200	6.8	172	0	3.7	202	413	0	8.9	485		
09-07-71	144	7.0	162	0	3.4	250	280	0	5.9	432		
10-06-71	332	6.9	160	0	2.4	298	637	0	9.6	1,187		
11-17-71	404	7.0	186	0	2.1	250	902	0	10	1,212		
12-03-71	404	7.1	156	0	1.7	230	756	0	8.2	1,115		
MIN.	144	6.8	50	0	1.7	202	280	0	5.9	432		
MAX.	3,924	7.7	214	0	5.8	326	4,951	0	235	14,456		
AVG.	1,076						1,716	0	57	3,642		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 79

STRIP MINE SEEPAGE TO SUSQUEHANNA RIVER NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-12-71	4	7.5	200	0	0.2	326	9.6	0	0.01	16		
02-05-71	2	6.0	8	2	2.3	58	0.19	0.05	0.06	1.4		
03-09-71	12	6.5	10	2	29	230	1.4	0.29	4.2	33		
04-07-71	2	7.6	28	0	0.2	221	0.67	0	0.00	5.3		
05-05-71	NO SAMPLE AVAILABLE - DRY											
06-03-71	NO SAMPLE AVAILABLE - DRY											
07-13-71	NO SAMPLE AVAILABLE - DRY											
08-04-71	12	2.6	0	176	36.5	163	0	25	5.3	23		
09-07-71	2	3.3	0	160	1.2	413	0	3.8	0.03	9.9		
10-06-71	NO SAMPLE AVAILABLE - DRY											
11-17-71	NO SAMPLE AVAILABLE - DRY											
12-03-71	6	4.9	2	10	1.1	298	0.14	0.72	0.08	21		
MIN.	0	2.6	0	0	0.2	58	0	0	0	0		
MAX.	12	7.6	200	176	36.5	413	9.6	25	5.3	33		
AVG.	3.3						1.0	2.5	0.81	9.1		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 80

SEEPAGE THROUGH REFUSE PILE TO SUSQUEHANNA RIVER NEAR SPANGLER

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-12-71	2	2.8	0	272	54.0	422	0	6.5	1.3	10		
02-05-71	2	3.4	0	72	58.0	96	0	1.7	1.4	2.3		
03-09-71	12	3.2	0	224	39.5	355	0	32	5.7	51		
04-07-71	NO SAMPLE	AVAILABLE	-	DRY								
05-05-71	NO SAMPLE	AVAILABLE	-	DRY								
06-03-71	NO SAMPLE	AVAILABLE	-	DRY								
07-13-71	NO SAMPLE	AVAILABLE	-	DRY								
08-04-71	12	2.0	0	972	315.0	950	0	140	45	137		
09-07-71	NO SAMPLE	AVAILABLE	-	DRY								
10-06-71	NO SAMPLE	AVAILABLE	-	DRY								
11-17-71	NO SAMPLE	AVAILABLE	-	DRY								
12-03-71	1	2.2	0	2,160	765.0	2,045	0	26	9.2	25		
MIN.	0	2.0	0	72	39.5	96	0	0	0	0		
MAX.	12	3.4	0	2,160	765	2,045	0	140	45	137		
AVG.	2.4						0	17	5.2	19		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 81

DEEP MINE SEEPAGE ALONG RAILROAD TRACKS TO SUSQUEHANNA RIVER NEAR BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-12-71	12	4.0	0	110	322.0	1,190	0	16	46	171		
02-08-71	34	7.9	238	0	50.0	682	97	0	20	278		
03-09-71	2	5.8	14	88	61.5	1,248	0.34	2.1	1.5	30		
04-07-71	2	3.1	0	108	56.0	1,267	0	2.6	1.3	30		
05-05-71	2	3.2	0	100	38.5	1,286	0	2.4	0.92	31		
06-03-71	22	3.1	0	128	38.5	1,330	0	34	10	351		
07-13-71	12	3.1	0	139	42.0	1,277	0	20	6.0	184		
08-04-71	6	3.3	0	110	42.5	672	0	7.9	3.1	48		
09-07-71	12	2.9	0	274	62.0	1,373	0	39	8.9	198		
10-06-71	2	3.7	0	176	53.5	1,392	0	4.2	1.3	33		
11-17-71	2	3.5	0	140	28.5	1,642	0	3.4	0.68	39		
12-03-71	1	4.5	8	106	84.5	1,325	0.10	1.3	1.0	16		
MIN.	1	2.9	0	0	28.5	672	0	0	0.68	16		
MAX.	34	7.9	238	274	322	1,642	97	39	46	351		
AVG.	9.1						8.1	11	8.4	117		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 82

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-12-71	82	7.1	100	0	0	182	98	0	0	179		
02-08-71	70	7.5	122	0	0.0	221	102	0	0	186		
03-09-71	50	8.3	102	0	0.5	144	61	0	0.30	86		
04-07-71	34	7.9	76	0	0.3	134	31	0	0.12	55		
05-05-71	6	7.1	130	0	.08	144	9.4	0	0.01	10		
06-03-71	12	6.9	111	0	2.2	163	16	0	0.32	23		
07-13-71	6	7.0	150	0	0.02	173	11	0	0.00	12		
08-04-71	9	7.0	146	0	0.5	163	16	0	0.05	18		
09-07-71	2	7.0	148	0	1.4	240	3.6	0	0.03	5.8		
10-06-71	2	7.0	118	0	0.3	163	2.8	0	0.01	3.9		
11-17-71	6	7.1	130	0	0.04	19	9.4	0	0.00	1.4		
12-03-71	12	7.2	126	0	0.02	182	18	0	0.00	26		
MIN.	2	6.9	76	0	0	19	2.8	0	0	1.4		
MAX.	82	8.3	150	0	2.2	240	102	0	0.32	186		
AVG.	24						32	0	0.07	51		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 83

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-12-71	174	7.1	140	0	0.1	163	292	0	0.21	340		
02-08-71	70	7.5	150	0	0.1	221	126	0	0.08	186		
03-09-71	174	7.3	114	0	0.1	144	238	0	0.21	301		
04-07-71	94	7.1	136	0	0.08	125	153	0	0.09	141		
05-05-71	70	6.9	130	0	0.3	163	109	0	0.25	137		
06-03-71	70	6.9	120	0	0.1	182	101	0	0.08	153		
07-13-71	12	7.4	140	0	1.5	173	20	0	0.22	25		
08-04-71	2	5.5	16	6	1.3	182	0.38	0.14	0.03	4.4		
09-07-71	2	7.1	134	0	2.5	211	3.2	0	0.06	5.1		
10-06-71	34	6.8	118	0	0.2	173	48	0	0.08	71		
11-17-71	12	7.0	158	0	0.3	221	23	0	0.04	32		
12-03-71	34	7.0	128	0	0.2	182	52	0	0.08	74		
MIN.	2	5.5	16	0	0.08	125	0.38	0	0.03	4.4		
MAX.	174	7.5	158	6	2.5	221	292	0.14	0.25	340		
AVG.	62						97	0.01	0.12	122		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 84

STRIP MINE DRAINAGE TO WALNUT RUN, NEAR CYMBRIA

DATE	GPM	pH	ALK	ACD	PPM						
					T.Fe	S04	ALK	ACD	T.Fe	S04	
01-12-71	12	5.7	8	4	0.8	77	1.2	0.58	0.12	11	
02-08-71	12	6.2	8	4	3.9	77	1.2	0.58	0.56	11	
03-09-71	50	6.1	9	4	0.4	58	5.4	2.4	0.24	35	
04-07-71	6	6.0	6	4	0.5	38	0.43	0.29	0.04	2.8	
05-05-71	1	5.1	4	6	0.8	115	0.05	0.07	0.01	1.4	
06-03-71	NO SAMPLE AVAILABLE - DRY										
07-13-71	NO SAMPLE AVAILABLE - DRY										
08-04-71	2	7.0	170	0	0.5	38	4.1	0	0.01	0.91	
09-07-71	NO SAMPLE AVAILABLE - DRY										
10-06-71	1	6.0	20	0	3.6	96	0.24	0	0.04	1.2	
11-17-71	NO SAMPLE AVAILABLE - DRY										
12-03-71	NO SAMPLE AVAILABLE - DRY										
MIN.	0	5.1	4	0	0.4	38	0	0	0	0	
MAX.	50	7.0	170	6	3.9	115	5.4	2.4	0.56	35	
AVG.	7.0						1.1	0.33	0.09	5.3	

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 85

DEEP MINE DRAINAGE TO WALNUT RUN NEAR CYMBRIA

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-12-71	310	7.1	22	0	0.1	278	82	0	0.37	1,034		
02-08-71	70	7.2	32	0	0.2	355	27	0	0.17	298		
03-09-71	397	7.4	26	0	0.04	192	124	0	0.19	915		
04-07-71	123	7.6	28	0	0.1	211	41	0	0.15	312		
05-05-71	70	7.5	28	0	0.1	298	24	0	0.08	250		
06-03-71	70	7.0	54	0	0.1	374	45	0	0.08	314		
07-13-71	12	7.0	36	0	0.6	394	5.2	0	0.09	57		
08-04-71	12	6.6	40	0	0.8	355	5.8	0	0.12	51		
09-07-71	2	6.8	42	0	0.2	413	1.0	0	0.00	9.9		
10-06-71	12	6.4	36	0	0.2	336	5.2	0	0.03	48		
11-17-71	6	7.3	46	0	0.2	422	3.3	0	0.01	30		
12-03-71	12	7.3	34	0	0.2	403	4.9	0	0.03	58		
MIN.	2	6.4	22	0	0.04	192	1.0	0	0.00	9.9		
MAX.	397	7.6	54	0	0.8	422	124	0	0.37	1,034		
AVG.	91		31	0			31	0	0.11	281		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 86

DEEP MINE DRAINAGE TO WALNUT RUN NEAR CYMBRIA

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-12-71	82	6.8	14	0	0.1	538	14	0	0.10	529
02-08-71	34	7.0	20	0	0.0	691	8.2	0	0	282
03-09-71	70	7.1	16	0	0.0	480	13	0	0	403
04-07-71	70	7.0	20	0	0.0	490	17	0	0	411
05-05-71	34	7.0	16	0	0.04	586	6.5	0	0.02	239
06-03-71	34	7.1	24	0	0.02	643	9.8	0	0.01	262
07-13-71	6	7.2	13	0	0.2	634	0.94	0	0.01	46
08-04-71	6	6.4	14	12	0.3	326	1.0	0.86	0.02	23
09-07-71	2	6.3	10	0	0.2	768	0.24	0	0.00	18
10-06-71	28	6.9	20	0	0.06	614	6.7	0	0.02	206
11-17-71	6	7.1	16	0	0.06	826	1.2	0	0.00	59
12-03-71	6	6.9	22	0	0.02	758	1.6	0	0.00	55
MIN.	2	6.3	10	0	0.0	326	0.24	0	0	18
MAX.	82	7.2	24	12	0.3	826	17	0.86	0.10	529
AVG.	32						6.7	0.07	0.02	211

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 87

STRIP MINE SEEPAGE TO WALNUT RUN NEAR CYMBRIA

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-13-71	9	3.9	0	40	0.5	307	0	4.3	0.05	33		
02-08-71	6	4.4	0	34	0.2	355	0	2.4	0.01	26		
03-09-71	6	4.0	0	36	0.4	259	0	2.6	0.03	19		
04-07-71	6	6.7	12	0	0.3	336	0.86	0	0.02	24		
05-05-71	6	3.8	0	28	0.06	250	0	2.0	0.00	18		
06-03-71	9	3.9	0	40	0.08	326	0	4.3	0.01	35		
07-13-71	NO SAMPLE AVAILABLE - DRY											
08-04-71	2	3.2	0	26	2.7	384	0	0.62	0.06	9.2		
09-07-71	NO SAMPLE AVAILABLE - DRY											
10-06-71	1	3.7	0	112	0.2	326	0	1.3	0.00	3.9		
11-17-71	1	3.9	0	102	0.2	422	0	1.2	0.00	5.1		
12-03-71	2	3.9	0	82	0.1	403	0	2.0	0.00	9.7		
MIN.	0	3.2	0	0	0.06	250	0	0	0	0		
MAX.	9	6.7	12	112	2.7	422	0.86	4.3	0.06	35		
AVG.	4.0						0.07	1.7	0.02	15		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 88

STRIP MINE, POSSIBLY DEEP MINE BREAKOUT, DRAINAGE TO WALNUT RUN NEAR CYMBRIA

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-31-71	284	4.2	0	26	0.5	432	0	89	1.7	1,472		
02-08-71	70	5.5	8	20	0.1	653	6.7	17	0.08	549		
03-09-71	156	4.4	0	29	0.3	365	0	54	0.56	683		
04-07-71	94	4.3	0	34	0.2	394	0	38	0.23	444		
05-05-71	50	5.0	4	12	0.2	518	2.4	7.2	0.12	311		
06-03-71	50	5.2	6	10	0.2	614	3.6	6.0	0.12	368		
07-13-71	12	5.9	4	10	1.1	686	0.58	1.4	0.16	99		
08-04-71	12	5.0	4	8	0.06	662	0.58	1.2	0.01	95		
09-07-71	6	4.8	8	16	0.2	720	0.58	1.2	0.01	52		
10-06-71	2	4.0	0	112	0.6	518	0	2.7	0.01	12		
11-17-71	34	6.0	10	6	0.2	691	4.1	2.4	0.08	282		
12-03-71	12	5.6	10	26	0.1	720	1.4	3.7	0.01	104		
MIN.	2	4.0	0	6	0.06	365	0	1.2	0.01	12		
MAX.	284	6.0	10	112	1.1	720	6.7	89	1.7	1,472		
AVG.	65		1.7	19	0.26	373						

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 89

STRIP MINE DRAINAGE TO WALNUT RUN NEAR CYMBRIA

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-31-71	12	4.1	0	28	0.1	154	0	4.0	0.01	22		
02-08-71	12	4.7	2	22	0.0	134	0.29	3.2	0	19		
03-09-71	70	4.3	0	28	0.1	144	0	24	0.08	121		
04-07-71	12	4.2	0	18	0.02	106	0	2.6	0.03	15		
05-05-71	2	3.9	0	22	0.2	115	0	0.53	0.00	2.8		
06-03-71	NO SAMPLE AVAILABLE - DRY											
07-13-71	NO SAMPLE AVAILABLE - DRY											
08-04-71	2	3.6	0	24	0.2	48	0	0.58	0.00	1.2		
09-07-71	1	3.7	0	148	0.4	115	0	1.8	0.00	1.4		
10-06-71	1	3.5	0	100	1.5	115	0	1.2	0.02	1.4		
11-17-71	2	3.7	0	104	0.7	125	0	2.5	0.02	3.0		
12-03-71	1	4.0	0	60	0.1	96	0	0.72	0.00	1.2		
MIN.	0	3.5	0	18	0	48	0	0	0	0		
MAX.	70	4.7	2	148	1.5	154	0.29	24	0.08	121		
AVG.	9.6											

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 90

DEEP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-13-71	82	4.1	0	24	0.3	403	0	24	0.30	397		
02-08-71	34	4.5	2	38	0.1	586	0.82	16	0.04	239		
03-10-71	82	3.9	0	22	0.7	365	0	22	0.69	359		
04-07-71	50	4.3	0	18	0.02	355	0	11	0.01	213		
05-05-71	34	4.0	0	26	0.04	499	0	11	0.02	204		
06-03-71	12	4.1	0	26	4	499	0	3.7	0.58	72		
07-13-71	6	4.2	0	32	0.3	576	0	2.3	0.02	41		
08-04-71	2	3.7	0	32	0.3	394	0	0.77	0.01	9.5		
09-07-71	1	3.6	0	160	0.3	605	0	1.9	0.00	7.3		
10-06-71	2	4.0	0	100	0.1	451	0	2.4	0.00	11		
11-17-71	2	4.1	0	108	0.2	605	0	2.6	0.00	15		
12-03-71	2	4.1	0	88	0.1	605	0	2.1	0.00	15		
MIN.	1	3.6	0	18	0.02	355	0	0.77	0.00	7.3		
MAX.	82	4.5	2	160	4.0	605	0.82	24	0.69	397		
AVG.	26						0.07	8.3	0.14	132		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 91

DEEP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-13-71	156	6.9	30	0	1.4	374	56	0	2.6	700		
02-08-71	70	7.2	52	0	1.4	509	44	0	1.2	428		
03-10-71	397	7.1	30	0	0.7	317	143	0	3.3	1,510		
04-07-71	6	7.4	44	0	1.0	346	3.2	0	0.07	25		
05-06-71	34	6.9	20	0	6.3	346	8.2	0	2.6	141		
06-04-71	12	7.2	72	0	0.7	466	10	0	0.10	67		
07-19-71	22	7.3	64	0	0.8	614	17	0	0.21	162		
08-05-71	34	7.3	54	0	1.1	576	22	0	0.45	235		
09-08-71	22	7.1	56	0	1.1	557	15	0	0.29	147		
10-07-71	6	7.1	92	0	0.9	451	6.6	0	0.06	32		
11-18-71	2	7.3	52	0	1.0	518	1.2	0	0.02	12		
12-06-71	2	7.1	34	0	2.3	422	0.82	0	0.06	10		
MIN.	2	6.9	20	0	0.7	317	0.82	0	0.02	10		
MAX.	397	7.4	92	0	6.3	614	143	0	3.3	1,510		
AVG.	64						27	0	0.91	289		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 92

DEEP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-13-71	397	7.7	140	0	0.1	394	667	0	0.48	1,877		
02-08-71	123	8.0	176	0	0.1	528	260	0	0.15	779		
03-10-71	284	7.7	144	0	0.2	384	491	0	0.68	1,309		
04-07-71	236	8.0	132	0	0.3	307	374	0	0.85	870		
05-06-71	193	7.5	72	0	1.8	221	167	0	4.2	512		
06-04-71	34	7.6	156	0	0.9	509	64	0	0.37	208		
07-19-71	2	7.7	140	0	0.9	538	3.4	0	0.02	13		
08-05-71	6	7.7	158	0	1.2	528	11	0	0.09	38		
09-08-71	12	7.6	164	0	1.4	461	24	0	0.20	66		
10-07-71	2	7.6	150	0	0.3	432	3.6	0	0.01	10		
11-18-71	2	7.9	196	0	0.3	557	4.7	0	0.01	13		
12-06-71	12	7.4	64	0	4.1	206	9.2	0	0.59	30		
MIN.	2	7.4	64	0	0.1	206	3.4	0	0.01	10		
MAX.	397	8.0	196	0	4.1	557	667	0	4.2	1,877		
AVG.	109						173	0	0.64	477		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 93

DEEP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T. Fe	SO <sub>4</sub>	ALK	ACD	T. Fe	SO <sub>4</sub>		
01-13-71	193	6.7	74	0	0.1	154	171	0	0.23	357		
02-08-71	70	7.9	192	0	0.2	221	161	0	0.17	186		
03-10-71	284	7.3	158	0	0.08	125	538	0	0.27	426		
04-07-71	12	7.8	140	0	0.1	130	20	0	0.01	19		
05-06-71	34	7.5	70	0	1.0	182	29	0	0.41	74		
06-04-71	12	7.8	172	0	0.7	269	25	0	0.10	39		
07-19-71	6	7.6	156	0	0.7	480	11	0	0.05	35		
08-05-71	2	7.6	180	0	0.1	461	4.3	0	0.00	11		
09-08-71	2	7.8	190	0	1.7	298	4.6	0	0.04	7.2		
10-07-71	6	7.5	148	0	0.3	163	11	0	0.02	12		
11-18-71	2	7.9	206	0	0.2	317	4.9	0	0.00	7.6		
12-03-71	12	7.4	102	0	2.3	139	15	0	0.33	20		
MIN.	2	6.7	70	0	0.08	125	4.3	0	0.00	7.2		
MAX.	284	7.9	206	0	2.3	480	538	0	0.41	426		
AVG.	53						83	0	0.14	99		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 94

DEEP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-13-71	123	7.3	142	0	0.4	202	210	0	0.59	298		
02-08-71	50	7.7	176	0	0.4	202	106	0	0.25	121		
03-10-71	108	7.2	146	0	0.3	154	189	0	0.39	200		
04-07-71	50	7.6	156	0	0.1	125	94	0	0.06	75		
05-06-71	70	7.1	70	0	5.2	96	59	0	4.4	81		
06-04-71	34	7.4	182	0	0.2	173	74	0	0.08	71		
07-19-71	22	7.3	195	0	0.6	192	51	0	0.16	51		
08-05-71	6	7.5	162	0	3.7	202	12	0	0.27	15		
09-08-71	2	7.3	150	0	0.4	230	3.6	0	0.01	5.5		
10-07-71	12	7.2	146	0	0.4	192	21	0	0.06	28		
11-18-71	6	7.5	208	0	0.2	230	15	0	0.01	17		
12-06-71	6	7.4	128	0	1.4	154	9.2	0	0.10	11		
MIN.	2	7.2	70	0	0.1	96	3.6	0	0.01	5.5		
MAX.	123	7.7	208	0	5.2	230	210	0	4.4	298		
AVG.	41		70	0			70	0	0.53	81		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 95

STRIP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-13-71	12	5.8	4	5	0.3	77	0.58	0.72	0.04	11		
02-08-71	2	6.7	10	0	1.3	48	0.24	0	0.03	1.2		
03-10-71	22	6.3	6	1	0.7	38	1.6	0.26	0.18	10		
04-07-71	2	6.4	4	2	2.1	38	0.10	0.05	0.05	0.92		
05-06-71	22	6.0	6	3	1.3	43	1.6	0.79	0.34	11		
06-04-71	2	7.3	12	0	0.4	53	0.29	0	0.01	1.3		
07-19-71	2	7.2	16	0	2.1	58	0.38	0	0.05	1.4		
08-05-71	2	6.7	22	0	0.1	67	0.53	0	0.00	1.6		
09-08-71	2	5.9	16	4	1.1	48	0.38	0.10	0.03	1.2		
10-07-71	2	3.3	0	98	10.8	67	0	2.4	0.26	1.6		
11-18-71	1	6.6	10	0	0.7	77	0.12	0	0.01	0.92		
12-06-71	12	7.1	26	0	2.1	19	3.7	0	0.30	2.7		
MIN.	1	3.3	0	0	0.1	19	0	0	0.00	0.92		
MAX.	22	7.3	26	98	10.8	77	3.7	2.4	0.34	11		
AVG.	6.9						0.79	0.36	0.11	3.7		



MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 96

STREAM FLOW THROUGH DEEP MINE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-13-71	2,614	6.8	130	0	0.2	298	4,078	0	6.3	9,348		
02-08-71	1,135	7.1	166	0	0.1	403	2,261	0	1.4	5,489		
03-10-71	1,580	6.7	124	0	0.2	264	2,351	0	3.8	5,005		
04-07-71	2,067	7.1	100	0	0.2	115	2,480	0	5.0	2,857		
05-06-71	2,067	7.1	150	0	0.1	389	3,721	0	2.5	9,649		
06-04-71	2,067	6.7	184	0	0.0	360	4,564	0	0	8,929		
07-19-71	739	6.9	114	0	0.3	461	1,011	0	2.7	4,088		
08-05-71	264	6.9	192	0	0.1	413	608	0	0.32	1,308		
09-08-71	404	6.8	164	0	0.6	432	795	0	2.9	2,094		
10-07-71	404	6.9	170	0	0.2	384	824	0	0.97	1,862		
11-17-71	404	6.9	238	0	0.1	470	1,154	0	0.48	2,279		
12-06-71	404	7.0	124	0	6.6	240	601	0	32	1,164		
MIN.	264	6.7	100	0	0.0	115	601	0	0	1,164		
MAX.	2,614	7.1	238	0	6.6	470	4,564	0	32	9,649		
AVG.	1,179						2,037	0	4.9	4,506		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 97

DEEP MINE DRAINAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	28	3.9	0	22	0.1	634	0	7.4	0.03	213		
02-08-71	12	4.1	0	30	0.3	700	0	4.3	0.04	101		
03-10-71	34	4.1	0	14	0.1	542	0	5.7	0.04	221		
04-07-71	12	5.6	8	6	0.06	480	1.2	0.86	0.01	69		
05-06-71	22	4.7	2	6	0.3	470	0.53	1.6	0.08	124		
06-04-71	12	5.9	4	10	0.1	667	0.58	1.4	0.01	96		
07-19-71	6	4.1	0	16	0.2	758	0	1.2	0.01	55		
08-05-71	2	4.0	0	22	0.1	797	0	0.53	0.00	19		
09-08-71	2	3.8	0	172	0.4	826	0	4.1	0.01	20		
10-07-71	2	3.8	0	90	0.2	682	0	2.2	0.00	16		
11-18-71	1	2.9	0	126	3.0	595	0	1.5	0.04	7.1		
12-06-71	2	4.0	0	98	2.1	365	0	2.4	0.05	8.8		
MIN.	1	2.9	0	6	0.06	365	0	0.53	0.00	7.1		
MAX.	34	5.9	8	172	3.0	826	1.2	7.4	0.08	221		
AVG.	11						0.19	2.8	0.03	79		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 98

DEEP MINE SEEPAGE TO WALNUT RUN NEAR ALLPORT

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	12	3.3	0	78	1.6	490	0	11	0.23	71		
02-08-71	12	3.6	0	96	2.0	451	0	14	0.29	65		
03-10-71	12	3.1	0	60	1.0	288	0	8.6	0.14	41		
04-07-71	12	3.4	0	58	0.8	202	0	8.4	0.12	29		
05-06-71	2	3.2	0	54	0.9	264	0	1.3	0.02	6.3		
06-04-71	2	3.2	0	98	1.5	432	0	2.4	0.04	10		
07-19-71	1	3.0	0	86	7.4	566	0	1.0	0.03	6.8		
08-05-71	2	2.9	0	98	2.5	499	0	2.4	0.06	12		
09-08-71	2	2.8	0	264	3.9	710	0	6.3	0.09	17		
10-07-71	1	3.0	0	172	2.3	403	0	2.1	0.03	4.8		
11-17-71	1	3.8	0	98	0.8	912	0	1.2	0.01	11		
12-06-71	2	3.0	0	126	1.8	298	0	3.0	0.04	7.2		
MIN.	1	2.8	0	54	0.8	202	0	1.0	0.01	4.8		
MAX.	12	3.8	0	264	3.9	912	0	14	0.29	71		
AVG.	5.1						0	5.1	0.09	23		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 99

DEEP MINE DRAINAGE TO WALNUT RUN NEAR BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	22	6.6	58	0	17.0	413	15	0	4.5	109		
02-08-71	12	6.8	50	0	32.0	518	7.2	0	4.6	75		
03-10-71	22	6.3	66	0	20.0	403	17	0	5.3	106		
04-07-71	6	6.7	62	0	29.5	480	4.5	0	2.1	35		
05-06-71	34	6.4	46	0	23.0	182	19	0	9.4	74		
06-04-71	6	6.3	54	6	21.0	528	3.9	0.43	1.5	38		
07-19-71	2	6.5	72	0	39.0	518	1.7	0	0.94	12		
08-05-71	1	6.4	78	2	18.5	461	0.94	0.02	0.22	5.5		
09-08-71	1	6.3	54	0	23.0	470	0.65	0	0.28	5.6		
10-07-71	2	6.3	48	0	38.5	547	1.2	0	0.92	13		
11-18-71	2	6.5	54	0	29.0	538	1.3	0	0.70	13		
12-06-71	6	6.6	34	0	25.0	144	2.4	0	1.8	10		
MIN.	1	6.3	34	0	17	144	0.65	0	0.22	5.5		
MAX.	34	6.8	78	6	39	547	19	0.43	9.4	109		
AVG.	9.7		6.2	0.04	2.7	41						

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 STREAM SAMPLING STATION 100  
 STREAM FLOW INCLUDING DEEP MINE AND SPOIL PILE DISCHARGE TO PORTER RUN NEAR NORTH BARNESBORO.

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	193	7.3	98	0	0.1	154	227	0	0.23	357		
02-09-71	12	7.2	121	0	0.2	221	17	0	0.03	32		
03-10-71	397	7.1	118	0	0.04	144	562	0	0.19	686		
04-07-71	34	7.4	94	0	0.08	154	38	0	0.03	63		
05-06-71	193	6.6	18	0	1.7	77	42	0	3.9	178		
06-04-71	12	7.0	152	0	2.8	182	22	0	0.40	26		
07-19-71	2	6.9	92	0	0.5	134	2.2	0	0.01	3.2		
08-05-71	12	6.5	40	0	.02	154	5.8	0	0.00	22		
09-08-71	2	6.3	36	0	0.2	173	0.86	0	0.00	4.2		
10-07-71	12	6.9	120	0	0.1	202	17	0	0.01	29		
11-18-71	1	6.8	74	0	0.3	192	0.89	0	0.00	2.3		
12-06-71	6	7.0	8	0	2.8	96	0.58	0	0.20	6.9		
MIN.	1	6.3	8	0	0.02	77	0.58	0	0.00	2.3		
MAX.	397	7.4	152	0	2.8	221	562	0	3.9	686		
AVG.	73		78	0			78	0	0.42	117		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 101

STRIP MINE DISCHARGE TO PORTER RUN NEAR NORTH BARNESBORO

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04
01-15-71	108	7.3	196	0	0	182	254	0	236	
02-09-71	70	7.2	270	0	0.0	259	227	0	218	
03-10-71	123	7.0	210	0	0.02	154	310	0	227	
04-07-71	70	7.4	164	0	0.02	173	138	0	145	
05-06-71	70	6.9	234	0	0.04	250	197	0	210	
06-04-71	70	6.9	228	0	4.7	221	192	0	186	
07-19-71	12	6.8	242	0	0.1	374	35	0	54	
08-05-71	6	6.8	328	0	0.0	326	24	0	23	
09-08-71	12	6.8	240	0	0.2	346	35	0	50	
10-07-71	12	6.8	214	0	0.06	250	31	0	36	
11-18-71	2	7.0	250	0	0.1	307	6.0	0	7.4	
12-06-71	9	7.0	268	0	0.3	254	29	0	27	
MIN.	2	6.8	164	0	0	154	6.0	0	7.4	
MAX.	123	7.4	328	0	4.7	374	310	0	236	
AVG.	47						123	0	118	

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 102

DEEP MINE DISCHARGE TO PORTER RUN NEAR NORTH BARNESBORO

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	284	8.4	178	0	0.2	106	607	0	0.68	361		
02-09-71	70	8.2	194	0	2.2	144	163	0	1.8	121		
03-10-71	193	8.1	226	0	0.08	106	523	0	0.19	245		
04-07-71	12	7.8	150	0	0.1	163	22	0	0.01	24		
05-06-71	12	8.2	162	0	0.2	96	23	0	0.03	14		
06-04-71	12	8.1	180	0	3.7	96	26	0	0.53	14		
07-19-71	2	8.1	206	0	0.1	173	4.9	0	0.00	4.2		
08-05-71	1	8.2	242	0	.04	96	2.9	0	0.00	1.2		
09-08-71	2	8.1	228	0	0.3	192	5.5	0	0.01	4.6		
10-07-71	6	8.1	200	0	0.1	144	14	0	0.01	10		
11-18-71	1	8.2	192	0	0.04	163	2.3	0	0.00	2.0		
12-06-71	2	8.1	158	0	0.6	125	3.8	0	0.01	3.0		
MIN.	1	7.8	150	0	0.04	96	2.3	0	0.00	1.2		
MAX.	284	8.4	242	0	3.7	192	607	0	1.8	361		
AVG.	50						116	0	0.27	67		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 103

DEEP MINE DISCHARGE TO PORTER RUN NEAR NORTH BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-15-71	70	8.5	164	0	0.2	86.4	138	0	0.17	73		
02-09-71	34	8.3	190	0	0.0	144	78	0	0	59		
03-10-71	123	8.2	166	0	0.2	96	245	0	0.30	142		
04-07-71	34	8.6	174	0	0.2	81.6	71	0	0.08	33		
05-06-71	34	8.0	82	0	0.4	86	33	0	0.16	35		
06-04-71	34	8.2	184	0	1.4	106	75	0	0.57	43		
07-19-71	2	8.2	228	0	0.2	163	5.5	0	0.00	3.9		
08-05-71	2	8.1	212	0	0.1	173	5.1	0	0.00	4.2		
09-08-71	1	8.1	252	0	0.2	163	3.0	0	0.00	2.0		
10-07-71	6	8.2	214	0	0.5	154	15	0	0.04	11		
11-18-71	2	8.1	242	0	0.1	182	5.8	0	0.00	4.4		
12-06-71	2	8.1	152	0	1.4	211	3.6	0	0.03	5.1		
MIN.	1	8.0	82	0	0.0	81.6	3.0	0	0	2.0		
MAX.	123	8.6	252	0	1.4	211	245	0	0.57	142		
AVG.	29						57	0	0.11	35		



MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 104

SEEPAGE THROUGH SPOIL PILE TO PORTER RUN NEAR NORTH BARNESBORO

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	50	7.1	48	0	0.1	288	29	0	0.06	173		
02-09-71	34	7.1	70	0	0.0	307	29	0	0	125		
03-10-71	50	6.7	64	0	0.02	230	38	0	0.01	138		
04-07-71	12	7.3	52	0	0.02	192	7.5	0	0.00	28		
05-06-71	28	6.7	50	0	0.06	197	17	0	0.02	66		
06-04-71	12	6.9	78	0	0.9	221	11	0	0.13	32		
07-19-71	6	6.9	80	0	0.08	307	5.8	0	0.01	22		
08-05-71	21	6.6	72	0	0.1	336	18	0	0.03	85		
09-08-71	2	4.5	4	60	0.2	499	0.10	1.4	0.00	12		
10-07-71	2	6.6	62	0	0.1	298	1.5	0	0.00	7.2		
11-18-71	1	7.0	7.6	0	0.08	298	0.09	0	0.00	3.6		
12-06-71	6	5.9	12	4	77.0	221	0.86	0.29	5.5	16		
MIN.	1	4.5	4	0	0.0	192	0.09	0	0	3.6		
MAX.	50	7.3	80	60	77	499	38	1.4	5.5	173		
AVG.	19						13	0.14	0.48	59		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 105

DEEP MINE DISCHARGE TO SUSQUEHANNA RIVER NEAR NORTH BARNESBORO

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	82	7.9	70	0	0.2	96	69	0	0.20	94		
02-09-71	94	8.0	92	0	0.2	163	104	0	0.23	184		
03-10-71	193	7.6	58	0	0.7	106	134	0	1.6	245		
04-07-71	94	8.1	68	0	0.5	115	77	0	0.56	130		
05-06-71	694	7.5	46	0	6.3	58	383	0	52	483		
06-04-71	70	8.0	106	0	0.4	139	89	0	0.34	117		
07-19-71	12	7.9	90	0	2.8	134	13	0	0.40	19		
08-05-71	12	7.8	84	0	1.0	115	12	0	0.14	17		
09-08-71	2	7.5	64	0	1.6	144	1.5	0	0.04	3.5		
10-07-71	12	7.8	90	0	0.7	144	1.3	0	0.10	21		
11-18-71	2	7.9	60	0	0.2	173	1.4	0	0.00	4.2		
12-06-71	12	7.5	50	0	35.0	77	7.2	0	5.0	11		
MIN.	2	7.5	46	0	0.2	58	1.4	0	0.00	3.5		
MAX.	694	8.1	106	0	35	173	383	0	52	483		
AVG.	106		75	0			75	0	5.1	111		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 106

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR NORTH BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	94	7.7	20	0	0.6	38	23	0	0.68	43		
02-09-71	2	4.0	0	118	4.6	182	0	2.8	0.11	4.4		
03-10-71	70	6.7	22	0	2.1	38	18	0	1.8	32		
04-07-71	12	7.1	14	0	0.2	48	2.0	0	0.03	6.9		
05-06-71	123	6.6	12	0	8.6	29	18	0	13	43		
06-04-71	2	7.3	32	0	0.2	62	0.77	0	0.00	1.5		
07-19-71	2	7.2	36	0	0.2	182	0.86	0	0.00	4.4		
08-05-71	2	7.1	50	0	0.6	58	1.2	0	0.01	1.4		
09-08-71	1	7.1	42	0	0.5	77	0.50	0	0.01	0.92		
10-07-71	2	7.1	28	0	0.4	86	0.67	0	0.01	2.1		
11-18-71	1	7.2	40	0	0.1	67	0.48	0	0.00	0.80		
12-06-71	2	7.2	14	0	52.0	29	0.34	0	1.2	0.70		
MIN.	1	4.0	0	0	0.1	29	0	0	0.00	0.70		
MAX.	123	7.7	50	118	8.6	182	23	2.8	13	43		
AVG.	26						5.5	0.23	1.4	12		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 107

DEEP MINE AND STRIP MINE DISCHARGE TO SUSQUEHANNA RIVER NEAR NORTH BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	34	3.2	0	72	33.0	154	0	29	13	63		
02-09-71	NO SAMPLE AVAILABLE - FROZEN											
03-10-71	34	3.1	0	43	5.9	115	0	18	2.4	47		
04-08-71	6	3.0	0	100	12.9	173	0	7.2	0.93	12		
05-06-71	34	3.3	0	26	12.3	86	0	11	5.0	35		
06-04-71	NO SAMPLE AVAILABLE - DRY											
07-19-71	NO SAMPLE AVAILABLE - DRY											
08-05-71	6	2.2	0	834	335.0	1,027	0	60	24	74		
09-08-71	NO SAMPLE AVAILABLE - DRY											
10-07-71	2	2.5	0	278	58.5	326	0	6.7	1.4	7.8		
11-18-71	NO SAMPLE AVAILABLE - DRY											
12-06-71	12	2.7	0	282	69.5	288	0	41	10	41		
MIN.	0	2.2	0	26	5.9	86	0	0	0	0		
MAX.	34	3.3	0	834	335	1,027	0	60	24	74		
AVG.	12						0	16	5.2	25		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 108

SEEPAGE THROUGH SPOIL PILE TO SUSQUEHANNA RIVER NEAR NORTH BARNESBORO

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	2	2.9	0	194	51.0	317	0	4.7	1.2	7.6		
02-09-71	NO SAMPLE	AVAILABLE - FROZEN										
03-10-71	12	2.7	0	152	31.0	240	0	22	4.5	35		
04-08-71	2	3.1	0	218	45.0	317	0	5.2	1.1	7.6		
05-06-71	12	2.6	0	156	19.5	245	0	22	2.8	35		
06-04-71	NO SAMPLE	AVAILABLE - DRY										
07-19-71	NO SAMPLE	AVAILABLE - DRY										
08-05-71	NO SAMPLE	AVAILABLE - DRY										
09-08-71	NO SAMPLE	AVAILABLE - DRY										
10-07-71	2	2.4	0	436	83.0	432	0	10	2.0	10		
11-18-71	NO SAMPLE	AVAILABLE - DRY										
12-06-71	2	2.3	0	486	97.0	413	0	12	2.3	9.9		
MIN.	0	2.3	0	152	19.5	240	0	0	0	0		
MAX.	12	3.1	0	486	97	432	0	22	4.5	35		
AVG.	2.9							6.9	1.3	9.6		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 109

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR NORTH BARNESBORO

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-15-71	6	4.9	6	4	0.3	58	0.43	0.29	0.02	4.1		
02-09-71	NO SAMPLE AVAILABLE - FROZEN											
03-10-71	12	4.8	2	6	0.1	29	0.29	0.86	0.01	4.2		
04-08-71	1	5.3	10	4	1.2	29	0.12	0.05	0.01	0.35		
05-06-71	22	4.4	2	8	0.3	19	0.53	2.1	0.08	5.0		
06-04-71	NO SAMPLE AVAILABLE - DRY											
07-19-71	NO SAMPLE AVAILABLE - DRY											
08-05-71	NO SAMPLE AVAILABLE - DRY											
09-08-71	NO SAMPLE AVAILABLE - DRY											
10-07-71	6	4.4	0	82	1.4	48	0	5.9	0.10	3.5		
11-18-71	NO SAMPLE AVAILABLE - DRY											
12-06-71	6	4.9	6	8	0.5	29	0.43	0.58	0.04	2.1		
MIN.	0	4.4	0	4	0.1	19	0	0	0	0		
MAX.	12	5.3	10	82	1.4	58	0.53	5.9	0.10	5.0		
AVG.	4.8						0.16	0.89	0.02	1.8		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 110

STREAM FLOW INCLUDING STRIP MINE AND DEEP MINE DISCHARGE

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4
01-15-71	397	7.9	88	0	0.1	106	419	0	0.48	505
02-09-71	70	7.7	92	0	0.0	134	77	0	0	113
03-11-71	1,535	8.1	116	0	1.0	106	2,137	0	18	1,953
04-08-71	70	8.4	90	0	0.3	96	76	0	0.25	81
05-06-71	397	7.1	16	0	1.7	29	76	0	8.1	138
06-04-71	397	8.0	120	0	2.3	120	572	0	11	572
07-19-71	12	8.0	80	0	0.7	163	12	0	0.10	23
08-05-71	12	7.8	74	0	0.5	106	11	0	0.07	15
09-08-71	12	8.0	102	0	0.5	163	15	0	0.07	23
10-07-71	12	8.0	96	0	0.3	154	14	0	0.04	22
11-18-71	12	8.0	88	0	0.1	154	13	0	0.01	22
12-06-71	12	7.2	16	0	7.2	38	2.3	0	1.0	5.5
MIN.	12	7.1	16	0	0.0	29	2.3	0	0	5.5
MAX.	1,535	8.4	120	0	7.2	163	2,137	0	18	1,953
AVG.	245						285	0	3.3	289

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 111

DEEP MINE SEEPAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-15-71	2	3.5	0	80	3.6	307	0	1.9	0.09	7.4		
02-09-71	2	3.7	0	104	54.0	365	0	2.5	1.3	8.8		
03-11-71	2	3.3	0	92	7.2	336	0	2.2	0.17	8.1		
04-08-71	2	3.6	0	86	20.4	336	0	2.1	0.50	8.1		
05-06-71	34	6.2	8	2	1.0	86	3.3	0.82	0.41	35		
06-04-71	NO SAMPLE AVAILABLE - DRY											
07-19-71	1	6.1	4	4	0.1	58	0.05	0.05	0.00	0.70		
08-05-71	1	7.0	34	0	1.6	134	0.41	0	0.02	1.6		
09-08-71	NO SAMPLE AVAILABLE - DRY											
10-07-71	1	2.7	0	198	6.3	374	0	2.4	0.08	4.5		
11-18-71	NO SAMPLE AVAILABLE - DRY											
12-06-71	6	5.0	4	10	3.7	67	0.29	0.72	0.27	4.8		
MIN.	0	2.7	0	0	0.1	58	0	0	0	0		
MAX.	34	7.0	34	198	54	374	3.3	2.5	1.3	35		
AVG.	4.3						0.34	1.1	0.24	6.6		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 112

DEEP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	22	3.3	0	108	14.0	413	0	29	4.0	109		
02-09-71	34	3.5	0	138	22.0	509	0	56	9.0	208		
03-11-71	12	3.2	0	110	15.7	365	0	16	2.3	53		
04-08-71	12	3.2	0	92	22.4	355	0	13	3.2	51		
05-06-71	22	3.1	0	72	16.5	278	0	19	4.4	73		
06-04-71	6	2.9	0	178	28.5	586	0	13	2.1	42		
07-19-71	1	3.9	0	202	41	730	0	2.4	0.49	8.8		
08-05-71	6	3.1	0	80	13.4	346	0	5.8	0.96	25		
09-08-71	1	2.6	0	340	43.5	778	0	4.1	0.52	9.3		
10-07-71	1	2.8	0	272	31.5	624	0	3.3	0.38	7.5		
11-18-71	4	2.8	0	204	32.5	547	0	9.8	1.6	26		
12-06-71	9	3.1	0	144	14.5	307	0	16	1.6	33		
MIN.	1	2.6	0	72	13.4	278	0	2.4	0.38	7.5		
MAX.	34	3.9	0	340	43.5	778	0	56	9.0	208		
AVG.	11		0				0	16	2.5	54		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 113

DEEP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4
01-15-71	17	7.6	124	0	2.0	240	25	0	0.41	49
02-09-71	12	7.5	166	0	1.2	278	24	0	0.17	40
03-11-71	123	7.5	138	0	2.0	259	204	0	3.0	382
04-08-71	50	7.8	126	0	2.8	211	76	0	1.7	127
05-06-71	50	7.1	128	0	1.7	230	77	0	1.0	138
06-04-71	12	6.5	130	0	4.7	235	19	0	0.68	34
07-19-71	12	6.9	134	0	2.1	326	19	0	0.30	47
08-05-71	34	7.0	176	0	2.1	278	72	0	0.86	113
09-08-71	2	7.1	190	0	2.2	288	4.6	0	0.05	6.9
10-07-71	2	7.2	112	0	2.0	259	2.7	0	0.05	6.2
11-18-71	12	7.4	198	0	2.1	298	29	0	0.30	43
12-06-71	6	7.5	160	0	2.9	269	12	0	0.21	19
MIN.	2	6.5	112	0	1.2	211	2.7	0	0.05	6.2
MAX.	123	7.8	198	0	4.7	326	204	0	3.0	382
AVG.	28		47	0		84		0	0.73	84

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 114

DEEP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-15-71	694	7.8	134	0	1.5	230	1,116	0	12	1,915		
02-09-71	846	7.9	160	0	1.5	288	1,624	0	15	2,924		
03-11-71	925	7.7	154	0	1.7	240	1,709	0	19	2,664		
04-08-71	694	8.1	114	0	3.0	230	949	0	25	1,919		
05-06-71	846	7.2	148	0	2.0	202	1,502	0	20	2,051		
06-04-71	552	6.9	140	0	2.6	240	927	0	17	1,590		
07-19-71	422	7.3	126	0	2.2	259	638	0	11	1,312		
08-05-71	552	7.5	174	0	1.8	269	1,153	0	12	1,782		
09-08-71	552	7.4	170	0	1.7	269	1,126	0	11	1,782		
10-07-71	302	7.0	220	0	2.0	259	797	0	7.2	939		
11-18-71	302	7.9	182	0	1.6	269	660	0	5.8	975		
12-06-71	302	7.7	160	0	2.1	250	580	0	7.6	906		
MIN.	302	6.9	114	0	1.5	202	580	0	5.8	906		
MAX.	925	8.1	220	0	3.0	288	1,709	0	25	2,924		
AVG.	582						1,065	0	14	1,730		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 115

STRIP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	12	3.6	0	117	34.0	240	0	17	4.9	35		
02-09-71	12	3.9	0	74	0.2	173	0	11	0.03	25		
03-11-71	34	3.6	0	74	1.0	144	0	30	0.41	59		
04-08-71	2	3.2	0	50	2.1	173	0	1.2	0.05	4.1		
05-06-71	34	3.3	0	76	2.6	134	0	31	1.1	55		
06-04-71	NO SAMPLE AVAILABLE - DRY											
07-19-71	NO SAMPLE AVAILABLE - DRY											
08-05-71	2	3.0	0	98	5.8	192	0	2.4	0.14	4.6		
09-08-71	NO SAMPLE AVAILABLE - DRY											
10-07-71	1	3.1	0	234	5.2	634	0	2.8	0.06	7.6		
11-18-71	NO SAMPLE AVAILABLE - DRY											
12-06-71	2	4.1	0	82	27.0	144	0	2.0	0.65	3.5		
MIN.	0	3.0	0	50	0.2	134	0	0	0	0		
MAX.	34	4.5	0	234	34	634	0	31	4.9	59		
AVG.	8.3						0	8.1	0.61	16		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 116

DEEP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	34	4.3	0	20	0.1	163	0	8.2	0.04	67		
02-09-71	22	4.4	0	24	0.0	221	0	6.3	0	58		
03-11-71	50	4.1	0	18	0.1	144	0	11	0.06	86		
04-08-71	12	3.6	0	18	.04	163	0	2.6	0.01	24		
05-06-71	70	4.0	0	14	0.3	101	0	12	0.25	85		
06-04-71	6	6.5	4	24	0.8	202	0.29	1.7	0.06	15		
07-19-71	1	4.0	0	22	0.3	307	0	0.26	0.00	3.7		
08-05-71	6	4.0	0	40	.02	192	0	2.9	0.00	14		
09-08-71	1	3.8	0	160	0.4	288	0	1.9	0.00	3.5		
10-07-71	9	4.0	0	92	0.1	278	0	9.9	0.01	30		
11-18-71	1	4.2	0	86	0.3	298	0	1.0	0.00	3.6		
12-06-71	6	4.1	0	74	1.2	115	0	5.3	0.09	8.3		
MIN.	1	3.6	0	14	0.0	101	0	0.26	0.00	3.5		
MAX.	70	6.5	4	160	1.2	307	0.29	12	0.25	86		
AVG.	18						0.02	5.3	0.04	33		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 117

DEEP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	6	4.3	0	170	0.9	547	0	12	0.06	39		
02-09-71	6	4.2	0	212	0.2	586	0	15	0.01	42		
03-11-71	17	4.1	0	160	0.4	394	0	33	0.08	80		
04-08-71	2	3.4	0	158	0.4	509	0	3.8	0.01	12		
05-06-71	12	3.8	0	162	0.4	451	0	23	0.06	65		
06-04-71	2	3.9	0	148	1.4	466	0	3.6	0.03	11		
07-19-71	2	3.7	0	192	0.8	528	0	4.6	0.02	13		
08-05-71	6	3.7	0	140	0.3	470	0	10	0.02	34		
09-08-71	1	3.5	0	554	2.6	931	0	6.6	0.03	11		
10-07-71	9	3.8	0	350	0.5	691	0	38	0.05	75		
11-18-71	1	3.8	0	328	0.6	643	0	3.9	0.01	7.7		
12-06-71	1	4.0	0	218	1.4	326	0	2.6	0.02	3.9		
MIN.	1	3.4	0	140	0.2	326	0	2.6	0.01	3.9		
MAX.	17	4.3	0	554	2.6	931	0	38	0.08	80		
AVG.	5.4						0	13	0.03	33		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 118

STRIP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	2	4.7	4	8	0.2	125	0.10	0.19	0.00	3.0		
02-09-71	2	5.2	6	6	0.9	38	0.14	0.14	0.02	0.92		
03-11-71	1	4.6	6	7	4.9	14	0.07	0.08	0.06	0.17		
04-08-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
05-06-71	70	4.3	0	8	0.2	10	0	6.7	0.17	8.4		
06-04-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
07-19-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
08-05-71	1	4.3	20	30	3.9	19	0.24	0.36	0.05	0.23		
09-08-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
10-07-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
11-18-71	NO SAMPLE AVAILABLE	-	-	-	-	-	-	-	-	-		
12-06-71	2	4.1	0	72	1.3	29	0	1.7	0.03	0.70		
MIN.	0	4.1	0	6	0.2	10	0	0	0	0		
MAX.	70	5.2	20	72	4.9	125	0.24	6.7	0.17	8.4		
AVG.	6.5						0.05	0.76	0.03	1.1		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 119

STREAM FLOW THROUGH REFUSE PILE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	880	4.1	0	68	7.0	115	0	7.8	74	1,214		
02-09-71	302	3.6	0	160	20.0	192	0	580	72	696		
03-11-71	624	4.4	2	62	5.4	106	15	464	40	794		
04-08-71	302	5.2	6	22	3.3	38	22	80	12	139		
05-06-71	284	4.4	1	12	5.9	29	3.4	41	20	99		
06-04-71	27	3.8	0	76	3.2	139	0	25	1.0	45		
07-19-71	108	3.4	0	126	7.2	307	0	163	9.3	398		
08-05-71	302	3.1	0	140	11.5	211	0	507	42	765		
09-08-71	108	3.3	0	274	8.5	230	0	355	11	298		
10-07-71	108	4.3	0	142	2.5	154	0	184	3.2	200		
11-18-71	108	4.1	0	178	4.0	221	0	231	5.2	286		
12-06-71	302	4.2	0	76	26.0	48	0	275	94	174		
MIN.	27	3.1	0	12	2.5	29	0	25	1.0	45		
MAX.	880	5.2	6	274	26	307	22	718	94	1,214		
AVG.	288						3.4	302	32	426		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 120

SEEPAGE THROUGH REFUSE PILE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-15-71	34	3.8	0	232	1.5	490	0	95	0.61	200		
02-09-71	34	3.9	0	244	0.7	557	0	100	0.29	227		
03-11-71	60	3.5	0	248	2.6	509	0	179	1.9	366		
04-08-71	6	4.2	0	116	0.4	355	0	8.4	0.03	26		
05-06-71	34	3.7	0	78	1.4	163	0	32	0.57	67		
06-04-71	2	3.5	0	168	1.1	509	0	4.0	0.03	12		
07-19-71	1	3.3	0	236	2.4	787	0	2.8	0.03	9.4		
08-05-71	2	3.4	0	162	0.5	499	0	3.9	0.01	12		
09-08-71	2	3.4	0	316	0.5	576	0	7.6	0.01	14		
10-07-71	2	3.3	0	330	1.1	710	0	7.9	0.03	17		
11-18-71	1	3.6	0	264	1.0	557	0	3.2	0.01	6.7		
12-06-71	12	2.8	0	672	49.0	643	0	97	7.1	93		
MIN.	1	2.8	0	78	0.4	163	0	2.8	0.01	6.7		
MAX.	60	4.2	0	672	49	787	0	179	7.1	366		
AVG.	16		0				0	45	0.89	88		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 121

DEEP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-15-71	22	5.9	6	4	0.6	19	1.6	1.1	0.16	5.1		
02-10-71	6	6.0	8	4	0.4	29	0.58	0.29	0.03	2.1		
03-11-71	12	5.8	5	3	0.1	29	0.72	0.43	0.01	4.2		
04-08-71	6	6.3	10	4	0.2	29	0.72	0.29	0.01	2.1		
05-07-71	22	5.5	4	4	0.3	29	1.1	1.1	0.08	7.7		
06-07-71	1	6.6	10	2	0.3	10	0.12	0.02	0.00	0.12		
07-20-71	NO SAMPLE AVAILABLE - DRY											
08-06-71	6	6.1	14	6	0.1	125	1.0	0.43	0.01	9.0		
09-09-71	2	6.5	26	2	0.1	38	0.62	0.05	0.00	0.91		
10-08-71	1	6.1	6	4	0.2	38	0.07	0.05	0.00	0.46		
11-19-71	1	6.2	12	1	0.1	48	0.14	0.01	0.00	0.58		
12-07-71	6	5.3	6	6	0.1	29	0.43	0.43	0.01	2.1		
MIN.	0	5.3	4	1	0.1	10	0	0	0	0		
MAX.	22	6.6	26	6	0.6	125	1.6	1.1	0.16	9.0		
AVG.	7.1						0.59	0.35	0.03	2.9		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 122

STRIP MINE DRAINAGE TO MOSS CREEK NEAR MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-15-71	123	6.3	6	2	0.1	58	8.9	3.0	0.15	85		
02-10-71	2	6.3	10	2	0.2	38	0.24	0.05	0.00	0.92		
03-11-71	70	6.1	8	2	0.1	19	6.7	1.7	0.08	16		
04-08-71	12	6.8	10	2	0.1	19	1.4	0.29	0.01	2.8		
05-07-71	70	6.0	6	3	0.3	19	5.0	2.5	0.25	16		
06-07-71	NO SAMPLE AVAILABLE											
07-20-71	2	6.4	8	4	0.3	96	0.19	0.10	0.01	2.3		
08-06-71	NO SAMPLE AVAILABLE											
09-09-71	NO SAMPLE AVAILABLE											
10-08-71	6	5.9	8	4	0.2	29	0.58	0.29	0.01	2.1		
11-19-71	NO SAMPLE AVAILABLE											
12-07-71	2	5.3	6	14	0.1	211	0.14	0.34	0.00	5.1		
MIN.	0	5.3	6	2	0.1	19	0	0	0	0		
MAX.	123	6.8	10	14	0.3	211	8.9	3.0	0.25	85		
AVG.	24						1.9	0.69	0.04	11		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 123

DEEP MINE DRAINAGE TO MOSS CREEK NEAR GARMANTOWN

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-18-71	34	5.9	10	4	1.2	182	4.1	1.6	0.49	74
02-10-71	2	6.1	10	4	2.1	163	0.24	0.10	0.05	3.9
03-11-71	22	6.0	6	4	.02	115	1.6	1.1	0.01	30
04-08-71	12	4.9	6	10	1.1	144	0.86	1.4	0.16	21
05-07-71	22	6.0	6	3	0.2	86	1.6	0.79	0.05	23
06-07-71	2	6.3	8	4	0.2	125	0.19	0.10	0.00	3.0
07-20-71	2	6.2	18	2	0.6	288	0.43	0.05	0.01	6.9
08-06-71	2	5.9	12	6	0.1	173	0.29	0.14	0.00	4.2
09-09-71	2	6.2	18	4	0.8	192	0.43	0.10	0.02	4.6
10-08-71	6	6.1	8	2	3.7	163	0.58	0.14	0.27	12
11-19-71	2	6.0	10	2	1.4	182	0.24	0.05	0.03	4.4
12-07-71	12	5.8	4	6	0.2	144	0.58	0.86	0.03	21
MIN.	2	4.9	4	2	0.02	86	0.19	0.05	0.00	3.0
MAX.	34	6.3	18	10	3.7	288	4.1	1.6	0.49	74
AVG.	10						0.93	0.54	0.09	17

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 124

STRIP MINE DRAINAGE NEAR GARMANTOWN TO MOSS CREEK

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-18-71	82	6.7	30	0	0.6	115	30	0	0.59	113		
02-10-71	12	7.0	20	0	0.2	96	2.9	0	0.03	14		
03-11-71	70	6.9	24	0	0.3	58	20	0	0.25	49		
04-08-71	34	7.7	26	0	0.6	77	11	0	0.24	31		
05-07-71	12	6.7	18	0	0.6	38	2.6	0	0.09	5.5		
06-07-71	2	7.1	42	0	1.7	72	1.0	0	0.04	1.7		
07-20-71	1	7.0	44	0	2.5	96	0.53	0	0.03	1.2		
08-06-71	6	6.7	32	0	0.8	77	2.3	0	0.06	5.5		
09-09-71	1	7.0	40	0	1.6	77	0.48	0	0.02	0.92		
10-08-71	6	6.9	32	0	1.0	77	2.3	0	0.07	5.5		
11-19-71	1	6.8	20	0	6.6	86	0.24	0	0.08	1.0		
12-07-71	34	6.7	24	0	0.8	77	9.8	0	0.33	31		
MIN.	1	6.7	18	0	0.2	38	0.24	0	0.02	0.92		
MAX.	82	7.7	44	0	6.6	115	30	0	0.59	113		
AVG.	22						6.9	0	0.15	22		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 125

STRIP MINE DRAINAGE TO MOSS CREEK NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-18-71	28	6.4	30	0	1.6	182	10	0	0.54	61		
02-10-71	12	5.8	8	8	3.5	192	1.2	1.2	0.50	28		
03-12-71	34	7.0	36	0	0.6	115	15	0	0.24	47		
04-08-71	12	7.6	22	0	0.6	106	3.2	0	0.09	15		
05-07-71	50	7.1	20	0	0.6	67	12	0	0.36	40		
06-07-71	12	7.0	36	0	1.3	134	5.2	0	0.19	19		
07-20-71	2	6.7	26	0	1.3	163	0.62	0	0.03	3.9		
08-06-71	34	6.7	42	0	0.6	154	17	0	0.24	63		
09-09-71	NO SAMPLE AVAILABLE - DRY											
10-08-71	6	6.7	32	0	0.5	173	2.3	0	0.04	12		
11-19-71	NO SAMPLE AVAILABLE - DRY											
12-07-71	12	6.7	16	0	0.7	77	2.3	0	0.10	11		
MIN.	0	5.8	8	0	0.5	67	0	0	0	0		
MAX.	50	7.6	42	8	3.5	192	17	1.2	0.54	63		
AVG.	17						5.7	0.10	0.19	25		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 126

STRIP MINE DRAINAGE TO MOSS CREEK NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S0 <sub>4</sub>	ALK	ACD	T.Fe	S0 <sub>4</sub>		
01-18-71	193	7.7	96	0	0.5	278	222	0	1.2	644		
02-10-71	34	8.2	90	0	0	259	37	0	0	106		
03-12-71	193	8.0	82	0	0.5	230	190	0	1.2	533		
04-08-71	94	8.8	88	0	0.2	221	99	0	0.23	249		
05-07-71	70	8.0	90	0	0.4	192	76	0	0.34	161		
06-07-71	12	8.1	74	0	0.6	206	11	0	0.09	30		
07-20-71	6	6.7	20	0	1.1	250	1.4	0	0.08	18		
08-06-71	2	7.2	70	0	0.6	154	1.7	0	0.01	3.7		
09-09-71	2	7.8	56	0	0.5	278	1.3	0	0.01	6.7		
10-08-71	6	7.7	74	0	0.4	211	5.3	0	0.03	15		
11-19-71	2	7.6	62	0	1.3	250	1.5	0	0.03	6.0		
12-07-71	6	7.6	40	0	0.4	163	2.9	0	0.03	12		
MIN.	2	6.7	20	0	0	154	1.3	0	0	3.7		
MAX.	193	8.8	96	0	1.3	278	222	0	1.2	644		
AVG.	52						54	0	0.27	149		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 127

DEEP MINE DRAINAGE TO MOSS CREEK NEAR GARMANTOWN

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-18-71	123	7.6	114	0	1.3	480	168	0	1.9	708
02-10-71	34	8.1	136	0	12	470	55	0	4.9	192
03-12-71	70	8.1	102	0	1.0	413	86	0	0.84	347
04-08-71	12	8.7	86	0	0.7	403	12	0	0.10	58
05-07-71	12	7.9	76	0	0.2	379	11	0	0.03	55
06-07-71	22	7.8	104	0	0.4	389	27	0	0.11	103
07-20-71	2	8.0	102	0	0.5	470	2.4	0	0.01	11
08-06-71	2	7.7	106	0	0.2	394	2.5	0	0.00	9.5
09-09-71	6	7.8	110	0	0.6	432	7.9	0	0.04	31
10-08-71	2	7.8	116	0	0.2	365	2.8	0	0.00	8.8
11-19-71	2	7.9	110	0	0.2	394	2.6	0	0.00	9.5
12-07-71	9	7.5	74	0	0.2	288	8.0	0	0.02	31
MIN.	2	7.5	74	0	0.2	288	2.4	0	0.00	8.8
MAX.	123	8.7	136	0	12	480	168	0	4.9	708
AVG.	25						32	0	0.66	130



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 128

DEEP MINE DRAINAGE TO MOSS CREEK NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-18-71	22	5.5	8	4	0.1	86.4	2.1	1.1	0.03	23		
02-10-71	12	6.3	6	2	0	57.6	0.86	0.29	0	8.3		
03-12-71	17	6.0	10	2	0.1	53	2.0	0.41	0.02	11		
04-08-71	NO SAMPLE	AVAILABLE	-	DRY								
05-07-71	NO SAMPLE	AVAILABLE	-	DRY								
06-07-71	NO SAMPLE	AVAILABLE	-	DRY								
07-20-71	NO SAMPLE	AVAILABLE	-	DRY								
08-06-71	NO SAMPLE	AVAILABLE	-	DRY								
09-09-71	NO SAMPLE	AVAILABLE	-	DRY								
10-08-71	NO SAMPLE	AVAILABLE	-	DRY								
11-19-71	NO SAMPLE	AVAILABLE	-	DRY								
12-07-71	9	5.8	4	4	0.2	67	0.43	0.43	0.02	7.2		
MIN.	0	5.5	4	2	0	53	0	0	0	0		
MAX.	22	6.3	10	4	0.2	86.4	2.1	1.1	0.03	23		
AVG.	5.0						0.45	0.19	0.01	4.1		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 129

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-18-71	2	4.0	0	50	0.2	310	0	1.2	0.00	7.4		
02-10-71	NO SAMPLE AVAILABLE - FROZEN											
03-12-71	1	4.4	2	34	0.1	211	0.02	0.41	0.00	2.5		
04-08-71	NO SAMPLE AVAILABLE - DRY											
05-07-71	1	4.2	0	18	0.9	178	0	0.22	0.01	2.1		
06-07-71	NO SAMPLE AVAILABLE - DRY											
07-20-71	NO SAMPLE AVAILABLE - DRY											
08-06-71	1	4.6	18	26	0.1	211	0.22	0.31	0.00	2.5		
09-09-71	NO SAMPLE AVAILABLE - DRY											
10-08-71	2	4.1	0	154	15.4	326	0	3.7	0.37	7.8		
11-19-71	NO SAMPLE AVAILABLE - DRY											
12-07-71	2	4.3	2	108	0.6	259	0.05	2.6	0.01	6.2		
MIN.	0	4.0	0	18	0.1	178	0	0	0	0		
MAX.	2	4.6	18	154	15.4	326	0.22	3.7	0.37	7.8		
AVG.	0.82						0.03	0.77	0.04	2.6		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 130  
 STREAM FLOW INCLUDING STRIP MINE AND DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-18-71	284	6.3	10	0	1.6	67	34	0	5.5	229		
02-10-71	34	6.8	12	0	0.3	58	4.9	0	0.12	24		
03-12-71	284	6.3	10	0	0.4	29	34	0	1.4	99		
04-08-71	397	7.2	12	2	0.4	38	57	9.5	1.9	183		
05-07-71	694	6.7	8	0	0.9	19	67	0	7.5	158		
06-07-71	34	6.8	10	0	0.9	43	4.1	0	0.37	18		
07-20-71	2	6.4	10	0	0.6	77	0.24	0	0.01	1.8		
08-06-71	6	6.7	16	0	0.3	67	1.2	0	0.02	4.8		
09-09-71	2	6.5	20	0	1.0	96	0.48	0	0.02	2.3		
10-08-71	6	6.4	24	0	1.6	67	1.7	0	0.12	4.8		
11-19-71	2	6.4	16	0	2.9	96	0.38	0	0.07	2.3		
12-07-71	12	6.4	8	4	1.5	29	1.2	0.58	0.22	4.2		
MIN.	2	6.3	8	0	0.3	19	0.24	0	0.01	1.8		
MAX.	694	7.2	24	4	2.9	96	67	9.5	7.5	229		
AVG.	146						17	0.84	1.4	61		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 131

DEEP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-18-71	82	7.8	116	0	1.4	662	114	0	1.4	651		
02-10-71	50	8.3	146	0	0.1	634	88	0	0.06	380		
03-12-71	123	8.1	94	0	0.6	566	139	0	0.89	835		
04-08-71	50	8.8	134	0	0.3	518	80	0	0.18	311		
05-07-71	34	8.3	108	0	0.4	427	44	0	0.16	174		
06-07-71	34	8.2	144	0	0.04	470	59	0	0.02	192		
07-20-71	22	8.2	122	0	0.04	442	32	0	0.01	117		
08-06-71	34	7.7	106	0	0.3	269	43	0	0.12	110		
09-09-71	12	8.0	152	0	0.0	566	22	0	0.00	82		
10-08-71	12	7.7	88	0	0.1	643	13	0	0.01	93		
11-19-71	2	7.9	106	0	0.2	662	2.5	0	0.00	16		
12-07-71	12	7.8	80	0	0.2	624	12	0	0.03	90		
MIN.	2	7.7	80	0	0.0	269	2.5	0	0.00	16		
MAX.	123	8.8	152	0	1.4	662	139	0	1.4	835		
AVG.	39						54	0	0.24	254		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 132

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-18-71	12	7.2	26	0	0.7	115	3.7	0	0.10	17		
02-10-71	12	7.8	20	0	0.5	96	2.9	0	0.07	14		
03-12-71	34	7.3	30	0	1.5	77	12	0	0.61	31		
04-09-71	34	7.7	32	0	0.7	67	13	0	0.29	27		
05-07-71	12	7.4	32	0	2.3	67	4.6	0	0.33	9.6		
06-07-71	NO SAMPLE	AVAILABLE	-	DRY								
07-20-71	NO SAMPLE	AVAILABLE	-	DRY								
08-06-71	NO SAMPLE	AVAILABLE	-	DRY								
09-09-71	NO SAMPLE	AVAILABLE	-	DRY								
10-08-71	1	7.2	32	0	1.1	96	0.38	0	0.01	1.2		
11-19-71	NO SAMPLE	AVAILABLE	-	DRY								
12-07-71	1	6.8	20	0	4.2	115	0.24	0	0.05	1.4		
MIN.	0	6.8	20	0	0.5	67	0	0	0	0		
MAX.	34	7.8	32	0	4.2	115	13	0	0.61	31		
AVG.	8.8						3.1	0	0.12	8.4		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 133

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-18-71	22	5.7	8	4	71	182	2.1	1.1	19	48		
02-10-71	2	7.1	14	0	0.1	211	0.34	0	0.00	5.1		
03-12-71	34	6.2	8	2	0.06	106	3.3	0.82	0.02	43		
04-09-71	34	6.5	8	4	0.02	115	3.3	1.6	0.01	47		
05-07-71	12	5.9	5	3	0.1	106	0.72	0.43	0.01	15		
06-07-71	NO SAMPLE AVAILABLE - DRY											
07-20-71	NO SAMPLE AVAILABLE - DRY											
08-16-71	2	5.6	14	10	0.2	298	0.34	0.24	0.00	7.2		
09-09-71	NO SAMPLE AVAILABLE - DRY											
10-08-71	NO SAMPLE AVAILABLE - DRY											
11-19-71	NO SAMPLE AVAILABLE - DRY											
12-07-71	2	5.4	8	10	0.0	230	0.19	0.24	0	5.5		
MIN.	0	5.4	5	0	0.0	106	0	0	0	0		
MAX.	34	7.1	14	10	71	298	3.3	1.6	19	48		
AVG.	9.0						0.86	0.37	1.6	14		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 134

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-19-71	12	6.8	72	0	1.2	269	10	0	0.17	39		
02-12-71	12	7.4	66	0	0.6	180	9.5	0	0.09	26		
03-12-71	22	7.1	50	0	0.6	163	13	0	0.16	43		
04-09-71	22	7.5	48	0	0.5	154	13	0	0.13	41		
05-07-71	12	7.2	50	0	0.7	144	7.2	0	0.10	21		
06-07-71	12	7.2	76	0	1.5	115	11	0	0.22	17		
07-20-71	6	7.1	62	0	1.8	154	4.5	0	0.13	11		
08-06-71	2	7.1	106	0	2.2	96	2.5	0	0.05	2.3		
09-09-71	1	7.3	136	0	80.5	154	1.6	0	0.97	1.8		
10-08-71	9	7.2	80	0	1.5	192	8.6	0	0.16	21		
11-19-71	2	6.7	46	0	50.0	211	1.1	0	1.2	5.1		
12-07-71	9	7.0	50	0	1.5	144	5.4	0	0.16	16		
MIN.	1	6.7	46	0	0.5	96	1.1	0	0.05	1.8		
MAX.	22	7.5	136	0	80.5	269	13	0	1.2	43		
AVG.	10						7.3	0	0.30	20		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 135

STRIP MINE DRAINAGE TO SUSQUEHANNA RIVER NEAR GARMANTOWN

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-19-71	22	7.1	78	0	2.3	202	21	0	0.61	53		
02-12-71	12	7.3	90	0	2.4	154	13	0	0.35	22		
03-12-71	34	7.3	66	0	4.0	173	27	0	1.6	71		
04-09-71	28	7.7	66	0	1.0	154	22	0	0.34	52		
05-07-71	6	7.2	76	0	1.7	115	5.5	0	0.12	8.3		
06-07-71	34	7.2	126	0	3.6	106	51	0	1.5	43		
07-20-71	6	7.2	110	0	3.3	115	7.9	0	0.24	8.3		
08-06-71	6	7.4	116	0	0.7	115	8.4	0	0.05	8.3		
09-09-71	9	7.3	124	0	2.2	173	13	0	0.24	19		
10-08-71	28	7.2	90	0	1.1	192	30	0	0.37	65		
11-19-71	6	7.1	108	0	31.0	134	7.8	0	2.2	9.6		
12-07-71	6	7.0	42	0	2.4	163	3.0	0	0.17	12		
MIN.	6	7.0	42	0	0.7	106	3.0	0	0.05	8.3		
MAX.	34	7.7	126	0	31	202	51	0	2.2	71		
AVG.	16						17	0	0.65	31		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 136

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-19-71	34	7.2	18	0	2.0	48	7.3	0	0.82	20		
02-11-71	12	7.5	46	0	0.2	38	6.6	0	0.03	5.5		
03-12-71	70	6.9	14	0	0.1	10	12	0	0.08	8.1		
04-09-71	12	7.6	26	0	0.2	10	3.7	0	0.03	1.4		
05-07-71	2	7.4	28	0	0.4	5	0.67	0	0.01	0.12		
06-07-71	2	7.5	34	0	0.8	5	0.82	0	0.02	0.12		
07-20-71	1	6.2	14	0	3.0	19	0.17	0	0.04	0.23		
08-06-71	NO SAMPLE AVAILABLE - DRY											
09-09-71	NO SAMPLE AVAILABLE - DRY											
10-08-71	1	7.2	26	0	3.2	38	0.31	0	0.04	0.46		
11-19-71	2	7.3	44	0	1.1	19	1.1	0	0.03	0.46		
12-07-71	2	7.0	18	0	0.6	10	0.43	0	0.01	0.24		
MIN.	0	6.2	14	0	0.1	5	0	0	0	0		
MAX.	70	7.6	46	0	3.2	48	12	0	0.82	20		
AVG.	12						2.8	0	0.09	3.1		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 137

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>	
01-19-71	50	7.0	14	0	0.2	19	8.4	0	0.12	12		
02-11-71	12	7.0	16	0	0.1	10	2.3	0	0.01	1.4		
03-21-71	60	6.9	16	0	0.1	5	12	0	0.07	3.5		
04-09-71	2	7.0	20	0	0.3	14	0.48	0	0.01	0.35		
05-07-71	12	6.8	9	0	0.4	5	1.3	0	0.06	0.72		
06-07-71	NO SAMPLE AVAILABLE - DRY											
07-20-71	NO SAMPLE AVAILABLE - DRY											
08-06-71	1	6.9	32	0	0.4	38	0.38	0	0.00	0.46		
09-09-71	2	6.7	26	0	0.8	19	0.62	0	0.02	0.46		
10-08-71	12	7.0	26	0	0.2	19	3.7	0	0.03	2.7		
11-19-71	6	6.8	18	0	0.2	19	1.3	0	0.01	1.4		
12-07-71	284	6.9	8	0	1.1	10	27	0	3.7	34		
MIN.	0	6.7	8	0	0.1	5	0	0	0	0		
MAX.	284	7.0	32	0	1.1	38	27	0	3.7	34		
AVG.	37						4.8	0	0.34	4.7		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 138

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	ALK	PPM				ALK	ACD	T.Fe	SO <sub>4</sub>	PPD			
				ALK	ACD	T.Fe	SO <sub>4</sub>					ALK	ACD	T.Fe	SO <sub>4</sub>
01-19-71	12	6.9	24	0	1.2	29	3.5	0	0.17	4.1					
02-11-71	NO SAMPLE AVAILABLE - FROZEN														
03-12-71	34	7.2	52	0	0.8	34	21	0	0.33	14					
04-09-71	12	7.3	20	0	5.9	10	2.9	0	0.85	1.4					
05-07-71	22	7.0	27	0	8.2	5	7.1	0	2.2	1.3					
06-07-71	1	7.1	64	0	12.1	10	0.77	0	0.15	0.12					
07-20-71	1	6.8	26	0	3.4	173	0.31	0	0.04	2.1					
08-06-71	1	6.9	44	0	0.8	86	0.53	0	0.01	1.0					
09-09-71	NO SAMPLE AVAILABLE - DRY														
10-08-71	2	7.0	54	0	6.8	29	1.3	0	0.16	0.70					
11-19-71	1	7.0	72	0	25.5	48	0.86	0	0.31	0.58					
12-07-71	2	6.8	18	0	1.0	29	0.43	0	0.02	0.70					
MIN.	0	6.8	18	0	0.8	5	0	0	0	0					
MAX.	34	7.3	72	0	25.5	173	21	0	2.2	14					
AVG.	8.0						3.5	0	0.39	2.4					

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 139

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-19-71	12	6.5	13	0	1.1	29	1.9	0	0.16	4.1		
02-11-71	NO SAMPLE AVAILABLE - FROZEN											
03-21-71	12	6.6	10	0	1.4	5	1.4	0	0.20	0.69		
04-09-71	2	6.8	8	4	2.4	10	0.19	0.10	0.06	0.23		
05-07-71	2	6.5	7	2	1.0	5	0.17	0.05	0.02	0.12		
06-07-71	1	6.5	24	0	3.6	10	0.29	0	0.04	0.12		
07-20-71	NO SAMPLE AVAILABLE - DRY											
08-06-71	NO SAMPLE AVAILABLE - DRY											
09-09-71	NO SAMPLE AVAILABLE - DRY											
10-08-71	1	6.5	16	0	1.5	29	0.19	0	0.02	0.35		
11-19-71	1	6.5	38	0	10.8	19	0.46	0	0.13	0.23		
12-07-71	2	6.4	8	0	0.7	19	0.19	0	0.02	0.46		
MIN.	0	6.4	7	0	0.7	5	0	0	0	0		
MAX.	12	6.8	38	4	10.8	29	1.9	0.10	0.20	4.1		
AVG.	3.0						0.44	0.01	0.06	0.57		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 140

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4		
01-19-71	12	7.2	76	0	0	29	11	0	0	4.1		
02-11-71	12	7.4	84	0	0	38	12	0	0	5.5		
03-12-71	17	7.2	66	0	0.06	10	13	0	0.01	2.0		
04-09-71	2	7.7	68	0	0.02	10	1.6	0	0.00	0.23		
05-07-71	6	7.2	68	0	0.06	5	4.9	0	0.00	0.36		
06-07-71	12	7.2	80	0	0.1	14	12	0	0.01	2.0		
07-20-71	2	7.2	68	0	0.2	19	1.6	0	0.00	0.46		
08-06-71	2	7.3	88	0	2.2	10	2.1	0	0.05	0.24		
09-09-71	2	7.2	122	0	0.3	67	2.9	0	0.01	1.6		
10-08-71	2	7.3	114	0	1.6	19	2.7	0	0.04	0.46		
11-19-71	2	7.3	94	0	0.2	29	2.3	0	0.00	0.70		
12-07-71	6	7.1	84	0	0.2	29	6.0	0	0.01	2.1		
MIN.	2	7.1	66	0	0	5	1.6	0	0	0.23		
MAX.	17	7.7	122	0	2.2	67	13	0	0.05	5.5		
AVG.	6.4						6.0	0	0.01	1.6		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 141

DEEP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM				PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>
01-19-71	156	7.1	156	0	0.7	58	292	0	1.3	108
02-11-71	70	7.4	190	0	0.8	77	160	0	0.67	65
03-12-71	123	7.3	142	0	0.9	38	210	0	1.3	56
04-09-71	82	7.6	158	0	0.7	29	155	0	0.69	28
05-07-71	123	7.1	111	0	0.8	19	164	0	1.2	28
06-07-71	34	7.3	190	0	0.7	24	78	0	0.29	9.8
07-20-71	22	7.4	140	0	0.8	67	37	0	0.21	18
08-06-71	34	7.2	192	0	0.4	38	78	0	0.16	16
09-01-71	34	7.2	230	0	0.9	67	94	0	0.37	27
10-08-71	60	7.3	200	0	0.6	58	144	0	0.43	42
11-19-71	12	7.4	192	0	0.9	58	28	0	0.13	8.4
12-07-71	174	7.2	128	0	1.7	48	267	0	3.5	100
MIN.	12	7.1	111	0	0.4	19	28	0	0.13	8.4
MAX.	174	7.6	230	0	1.7	77	292	0	3.5	108
AVG.	77						142	0	0.85	42

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 142

DEEP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-19-71	338	7.1	112	0	0	67	454	0	0	273		
02-11-71	123	7.5	150	0	0.5	67	221	0	0.74	99		
03-12-71	498	7.1	141	0	0.04	48	843	0	0.24	287		
04-09-71	284	7.6	124	0	0.1	48	423	0	0.34	164		
05-07-71	156	7.2	130	0	0.2	48	243	0	0.37	90		
06-07-71	123	7.0	160	0	0	38	236	0	0	56		
07-20-71	70	7.1	104	0	0.2	86	87	0	0.17	72		
08-06-71	70	7.8	148	0	.06	48	124	0	0.05	40		
09-09-71	70	7.1	160	0	0.0	86	134	0	0	72		
10-08-71	174	7.0	134	0	0.1	67	280	0	0.21	140		
11-19-71	34	7.2	126	0	0.1	86	51	0	0.04	35		
12-07-71	193	7.0	100	0	0.2	57	232	0	0.46	132		
MIN.	34	7.0	100	0	0	38	51	0	0	35		
MAX.	498	7.8	160	0	0.5	86	843	0	0.74	287		
AVG.	178						277	0	0.22	122		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 143

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	ALK	ACD	T.Fe	SO <sub>4</sub>	PPD			
							ALK	ACD	T.Fe	SO <sub>4</sub>
01-20-71	6	6.2	18	0	1.2	77	1.3	0	0.09	5.5
02-11-71	2	6.7	18	0	1.2	38	0.43	0	0.03	0.92
03-15-71	17	6.4	18	0	1.1	19	3.7	0	0.22	3.9
04-09-71	2	6.7	12	0	10.4	14	0.29	0	0.25	0.35
05-07-71	2	6.6	18	0	0.7	5	0.43	0	0.02	0.12
06-07-71	1	6.6	16	0	1.1	10	0.19	0	0.01	0.12
07-20-71	NO SAMPLE AVAILABLE - DRY									
08-06-71	NO SAMPLE AVAILABLE - DRY									
09-09-71	NO SAMPLE AVAILABLE - DRY									
10-08-71	1	6.5	22	0	2.2	29	0.26	0	0.03	0.35
11-19-71	1	6.8	26	0	16.9	38	0.31	0	0.20	0.46
12-07-71	1	6.6	38	0	1.6	19	0.46	0	0.02	0.23
MIN.	0	6.2	12	0	0.7	5	0	0	0	0
MAX.	17	6.8	38	0	16.9	77	3.7	0	0.25	5.5
AVG.	2.8						0.61	0	0.07	1.0



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 144

DEEP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-20-71	17	7.3	68	0	0.1	96	14	0	0.02	20		
02-11-71	12	7.7	82	0	0.1	106	12	0	0.01	15		
03-15-71	70	7.2	40	0	0.4	48	34	0	0.34	40		
04-09-71	22	7.9	48	0	0.1	58	13	0	0.03	15		
05-07-71	60	7.5	34	0	0.7	29	24	0	0.50	21		
06-07-71	6	7.7	102	0	0.2	58	7.3	0	0.01	4.2		
07-20-71	6	8.0	118	0	0.4	144	8.5	0	0.03	10		
08-06-71	2	7.9	92	0	0.5	58	2.2	0	0.01	1.4		
09-09-71	9	8.0	130	0	0.3	154	14	0	0.03	17		
10-08-71	6	7.9	112	0	0.2	125	8.1	0	0.01	9.0		
11-19-71	2	7.7	100	0	0.7	125	2.4	0	0.02	3.0		
12-07-71	12	7.0	22	0	0.9	29	3.2	0	0.13	4.2		
MIN.	2	7.0	22	0	0.1	29	2.2	0	0.01	1.4		
MAX.	70	8.0	130	0	0.9	154	34	0	0.50	40		
AVG.	19						12	0	0.10	13		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 145

DEEP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-20-71	6	6.6	12	0	0.7	19	0.86	0	0.05	1.4		
02-11-71	12	7.0	12	0	0.5	19	1.7	0	0.07	2.8		
03-15-71	60	6.2	10	0	0.7	19	7.2	0	0.50	14		
04-09-71	9	6.7	10	4	0.2	10	1.1	0.43	0.02	1.0		
05-07-71	22	6.2	8	1	0.3	5	2.1	0.26	0.08	1.3		
06-07-71	1	6.7	30	0	1.1	10	0.36	0	0.01	0.12		
07-20-71	1	6.6	20	0	0.5	58	0.24	0	0.01	0.70		
08-06-71	1	6.3	14	2	1.2	29	0.17	0.02	0.01	0.35		
09-09-71	2	6.3	40	0	3.9	29	0.96	0	0.09	0.70		
10-08-71	1	6.4	16	0	1.4	19	0.19	0	0.02	0.23		
11-19-71	1	7.0	38	0	2.3	29	0.46	0	0.03	0.35		
12-07-71	6	6.2	10	0	0.6	19	0.72	0	0.04	1.4		
MIN.	1	6.2	8	0	0.2	5	0.17	0	0.01	0.12		
MAX.	60	7.0	40	4	3.9	58	7.2	0.43	0.50	14		
AVG.	10						1.3	0.06	0.08	2.0		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 146

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM						PPD			
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-20-71	22	6.9	38	0	0.1	77	10	0	0.03	20		
02-12-71	12	7.2	44	0	0	38	6.3	0	0	5.5		
03-15-71	156	6.6	20	0	0.3	58	37	0	0.56	109		
04-09-71	12	7.4	40	0	0.02	48	5.8	0	0.00	6.9		
05-07-71	70	6.9	16	0	0.1	48	13	0	0.08	40		
06-07-71	12	7.1	56	0	0	34	8.1	0	0	4.9		
07-20-71	6	7.2	56	0	0.04	58	4.0	0	0.00	4.2		
08-06-71	12	7.1	50	0	.04	48	7.2	0	0.01	6.9		
09-09-71	9	7.1	96	0	0.02	67	10	0	0.00	7.2		
10-08-71	2	7.2	50	0	0.2	67	1.2	0	0.00	1.6		
11-19-71	NO SAMPLE AVAILABLE - DRY											
12-07-71	70	6.6	18	0	0.1	77	15	0	0.08	65		
MIN.	0	6.6	16	0	0	34	0	0	0	0		
MAX.	156	7.4	96	0	0.3	77	37	0	0.56	109		
AVG.	32						9.8	0	0.06	23		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 147

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-20-71	12	6.0	12	0	0.7	48	1.7	0	0.10	6.9		
02-12-71	34	6.8	14	0	1.6	86	5.7	0	0.65	35		
03-15-71	123	6.5	8	3	14.6	38	12	4.4	22	56		
04-09-71	70	7.5	22	26	57	67	18	22	48	56		
05-07-71	34	6.7	8	0	2.1	19	3.3	0	0.86	7.8		
06-07-71	2	6.6	30	0	2.9	62	0.72	0	0.07	1.5		
07-20-71	6	7.9	38	0	2.7	144	2.7	0	0.19	10		
08-06-71	2	7.2	22	0	0.6	58	0.53	0	0.01	1.4		
09-09-71	2	6.2	32	0	0.7	77	0.77	0	0.02	1.8		
10-08-71	2	7.5	24	0	3.1	67	0.58	0	0.07	1.6		
11-19-71	2	7.0	30	0	19.7	77	0.72	0	0.47	1.8		
12-07-71	2	6.4	16	8	20.0	163	0.38	0.19	0.48	3.9		

MIN.	2	6.0	8	0	0.6	19	0.38	0	0.01	1.4
MAX.	123	7.9	38	26	57	163	18	22	48	56
AVG.	24						3.9	2.2	6.1	15

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 148

STREAM FLOW INCLUDING STRIP MINE AND DEEP MINE DISCHARGE TO DOUGLAS NEAR GREENWICH

DATE	GPM	PH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-20-71	123	7.3	74	0	1.8	134	109	0	2.7	198		
02-12-71	284	7.4	38	0	1.3	96	130	0	4.4	327		
03-15-71	1,094	6.6	10	2	15.6	48	131	26	205	630		
04-09-71	694	8.3	84	0	1.4	58	700	0	12	480		
05-07-71	MUDDY											
	70	7.9	30	0	117	29	25	0	98	24		
06-07-71	12	7.6	84	0	1.3	115	12	0	0.19	17		
07-20-71	MUDDY											
	12	7.0	30	0	61.5	96	4.3	0	8.9	14		
08-06-71	12	7.2	70	0	0.7	115	10	0	0.10	17		
09-09-71	12	8.1	194	0	2.1	86	28	0	0.30	12		
10-08-71	12	8.0	170	0	10.3	96	24	0	1.5	14		
11-19-71	2	7.6	140	0	45.0	250	3.4	0	1.1	6.0		
12-07-71	12	7.3	48	0	10.0	96	6.9	0	1.4	14		
MIN.	2	6.6	10	0	0.7	29	3.4	0	0.10	6.0		
MAX.	1,094	8.3	194	2	117	250	700	26	205	630		
AVG.	195						99	2.2	28	146		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 149

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-20-71	94	6.9	14	0	0.2	77	16	0	0.23	87		
02-12-71	12	7.1	24	0	0.3	86	3.5	0	0.04	12		
03-15-71	193	6.7	14	0	10.4	58	32	0	24	134		
04-09-71	34	7.1	14	0	0.2	48	5.7	0	0.08	20		
05-07-71	193	6.9	10	0	0.8	48	23	0	1.9	111		
06-07-71	12	7.0	24	0	1.0	62	3.5	0	0.14	8.9		
07-20-71	6	7.2	32	0	1.4	96	2.3	0	0.10	6.9		
08-06-71	2	7.1	198	0	0.6	58	4.8	0	0.01	1.4		
09-09-71	2	7.2	38	0	0.4	96	0.91	0	0.01	2.3		
10-08-71	6	7.1	62	0	0.3	67	4.5	0	0.02	4.8		
11-19-71	2	7.1	26	0	14.5	86	0.62	0	0.35	2.1		
12-07-71	28	7.0	16	0	6.5	164	5.4	0	2.2	55		
MIN.	2	6.7	10	0	0.2	48	0.62	0	0.01	1.4		
MAX.	193	7.2	198	0	14.5	164	32	0	24	134		
AVG.	49						8.5	0	2.4	37		

MINE DRAINAGE REPORT  
 WEST BRANCH SUSQUEHANNA RIVER  
 WEIR NUMBER 150

STRIP MINE DRAINAGE TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	SO <sub>4</sub>	ALK	ACD	T.Fe	SO <sub>4</sub>		
01-20-71	12	5.7	6	2	0.2	77	0.86	0.29	0.03	11		
02-12-71	6	5.8	10	4	0.8	38	0.72	0.29	0.06	2.8		
03-15-71	123	6.3	10	0	0.6	29	15	0	0.89	43		
04-09-71	2	6.3	12	4	0.2	14	0.29	0.10	0.00	0.35		
05-07-71	42	5.8	6	3	0.5	5	3.0	1.5	0.25	2.5		
06-07-71	NO SAMPLE AVAILABLE											
07-20-71	NO SAMPLE AVAILABLE											
08-06-71	2	5.9	12	8	0.6	19	0.29	0.19	0.01	0.46		
09-09-71	NO SAMPLE AVAILABLE											
10-08-71	NO SAMPLE AVAILABLE											
11-19-71	1	60	10	0	0.9	38	0.12	0	0.01	0.46		
12-07-71	12	6.4	12	0	0.9	29	1.7	0	0.13	4.2		
MIN.	0	5.7	6	0	0.2	5	0	0	0	0		
MAX.	123	6.4	12	8	0.9	77	15	1.5	0.89	43		
AVG.	17						1.8	0.20	0.12	5.4		

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 151

STRIP MINE DRAINAGE ALONG RAILROAD TRACK TO DOUGLAS RUN NEAR GREENWICH

DATE	GPM	pH	PPM					PPD				
			ALK	ACD	T.Fe	S04	ALK	ACD	T.Fe	S04		
01-20-71	6	6.3	18	0	0.2	125	1.3	0	0.01	9.0		
02-12-71	12	6.5	21	0	0.4	134	3.0	0	0.06	19		
03-15-71	34	6.3	19	0	0.5	125	7.8	0	0.20	51		
04-09-71	2	7.1	20	0	0.2	96	0.48	0	0.00	2.3		
05-07-71	34	6.3	10	0	0.4	96	4.1	0	0.16	39		
06-07-71	12	6.9	28	0	3.8	542	4.0	0	0.55	78		
07-20-71	6	6.5	26	0	0.5	240	1.9	0	0.04	17		
08-06-71	6	6.5	30	0	0.2	77	2.2	0	0.01	5.5		
09-09-71	2	6.4	34	0	0.7	144	0.82	0	0.02	3.5		
10-08-71	9	6.6	16	0	0.1	173	1.7	0	0.01	19		
11-19-71	2	6.4	28	0	0.2	144	0.67	0	0.00	3.5		
12-07-71	9	6.3	18	0	0.8	211	1.9	0	0.09	23		
MIN.	2	6.3	10	0	0.1	77	0.48	0	0.00	2.3		
MAX.	34	7.1	34	0	3.8	542	7.8	0	0.55	78		
AVG.	11						2.5	0	0.10	22		



MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

WEIR NUMBER 152

STRIP MINE DRAINAGE CROSSING RAILROAD TRACK TO SUSQUEHANNA RIVER NEAR EMEIGH

DATE	GPM	pH	PPM						PPD					
			ALK	ACD	T.Fe	SO4	ALK	ACD	T.Fe	SO4				
01-20-71	17	6.7	8	0	0	19	1.6	0	0	0	3.9			
02-12-71	6	6.9	12	0	0.1	19	0.86	0	0.01	0	1.4			
03-15-71	193	6.2	9	1	0.2	14	21	2.3	0.46	32				
04-09-71	2	6.9	12	2	0.04	14	0.29	0.05	0.00	0.35				
05-07-71	60	6.3	6	2	0.06	5	4.3	1.4	0.04	3.6				
06-07-71	2	7.2	14	0	0.1	14	0.34	0	0.00	0.34				
07-20-71	2	7.2	10	0	0.2	38	0.24	0	0.00	0.91				
08-06-71	2	6.4	10	0	0.7	19	0.24	0	0.02	0.46				
09-09-71	2	7.2	32	0	0.6	10	0.77	0	0.01	0.24				
10-08-71	1	7.0	22	0	0.1	19	0.26	0	0.00	0.23				
11-19-71	2	6.8	18	0	0.7	38	0.43	0	0.02	0.91				
12-07-71	2	6.1	6	0	0.06	19	0.14	0	0.00	0.46				
MIN.	1	6.1	6	0	0	5	0.14	0	0	0	0.23			
MAX.	193	7.2	32	2	0.7	38	21	2.3	0.46	32				
AVG.	24						2.5	0.31	0.05	3.7				