

APPENDIX C

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MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUALITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	pH	ALK	ACD	SO ₄	T.Fe	pH	ALK	ACD	SO ₄	T.Fe
12-29-70	5.6	66	766	2,122	515	10.7	52	0	1,930	0.6
12-30-70	6.0	120	728	2,045	505	11.5	70	0	1,987	0.4
12-30-70	5.8	64	862	2,083	500	11.6	68	0	1,939	0.3
12-31-70	6.1	90	782	1,949	470	11.7	76	0	1,891	0.5
01-04-71	6.2	120	684	2,093	475	10.7	38	0	1,891	0.4
01-05-71	6.2	118	650	2,141	500	10.6	44	0	1,862	1.1
01-06-71	5.8	88	638	1,987	585	9.1	38	0	1,718	1.0
01-07-71	6.3	100	530	1,987	495	9.2	30	0	1,805	1.6
01-08-71	5.6	44	656	2,112	480	10.5	26	0	1,901	0.4
01-11-71	5.9	70	622	1,949	450	12.0	190	0	1,910	0.4
01-12-71	5.6	54	804	2,275	635	11.3	86	0	1,920	0.9
01-13-71	4.6	16	1,632	3,302	960	9.5	44	0	2,141	4.5
01-15-71	4.8	18	1,894	3,446	1,030	9.9	30	0	3,014	110

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUANTITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	FLOW	ALK	ACD	SO ₄	T.Fe	FLOW	ALK	ACD	SO ₄	T.Fe
12-29-70	5.04	1.4	16	45	11	4.26	0.9	0	34	0.01
12-30-70	5.04	2.0	15	43	11	4.26	1.2	0	35	0.01
12-30-70	5.04	1.3	18	44	11	4.26	1.2	0	34	0.01
12-31-70	5.04	1.9	16	41	10	4.26	1.4	0	34	0.01
01-04-71	5.04	2.5	15	44	10	4.26	0.7	0	34	0.01
01-05-71	5.04	2.5	15	45	11	4.26	0.8	0	33	0.02
01-06-71	5.04	1.8	14	42	12	4.26	0.7	0	31	0.02
01-07-71	5.04	2.1	11	42	10	4.26	0.5	0	32	0.03
01-08-71	5.04	0.9	15	44	10	4.26	0.5	0	34	0.01
01-11-71	7.56	2.2	20	61	14	6.36	5.0	0	51	0.01
01-12-71	10.08	2.3	34	96	27	8.28	3.0	0	66	0.03
01-13-71	10.08	0.7	69	139	40	8.28	1.5	0	74	0.16
01-15-71	10.08	0.8	80	145	43	8.28	1.0	0	104	3.80

QUANTITY DATA: TONS PER DAY
 FLOW DATA: MILLION GALLONS PER DAY

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUALITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	pH	ALK	ACD	SO ₄	T.Fe	pH	ALK	ACD	SO ₄	T.Fe
01-18-71	4.2	0	2,598	4,243	1,250	6.1	40	332	3,616	920
01-19-71	4.4	10	2,554	4,147	1,290	8.4	26	0	3,696	850
01-20-71	4.5	4	3,046	4,368	1,360	8.2	42	0	3,840	820
01-21-71	4.4	0	2,334	4,426	1,330	11.0	50	0	3,130	980
01-29-71	4.5	0	2,275	4,300	1,280	7.2	62	0	3,494	970
02-01-71	4.2	0	2,565	4,531	1,510	9.7	40	0	3,350	870
02-02-71	4.2	0	2,556	4,426	1,310	10.3	42	0	3,197	620
02-03-71	4.2	0	2,380	4,550	1,280	9.0	26	0	3,110	620
02-04-71	4.2	0	2,370	4,435	1,310	10.0	40	0	2,784	860
02-05-71	4.2	0	2,300	4,531	1,220	10.1	34	0	2,803	770
02-08-71	4.5	0	2,620	4,454	1,260	9.5	28	0	3,437	1,100
02-10-71	4.5	0	2,483	4,570	1,230	9.3	30	0	3,235	840
02-12-71	4.3	0	2,520	4,272	1,260	8.9	36	0	3,264	680

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUANTITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	FLOW	ALK	ACD	SO ₄	T.Fe	FLOW	ALK	ACD	SO ₄	T.Fe
01-18-71	10.08	0	109	178	53	8.28	1.4	11	125	32
01-19-71	10.08	0.4	207	174	54	8.28	0.9	0	128	29
01-20-71	10.08	0.2	128	184	57	8.08	1.4	0	129	28
01-21-71	10.08	0	98	186	56	8.08	1.7	0	105	33
01-29-71	10.08	0	96	181	54	8.08	2.1	0	118	33
02-01-71	10.08	0	108	190	63	8.08	1.3	0	113	29
02-02-71	10.08	0	107	186	55	8.08	1.4	0	108	21
02-03-71	10.08	0	100	190	54	8.08	0.9	0	105	21
02-04-71	10.08	0	100	186	55	8.08	1.3	0	94	29
02-05-71	10.08	0	97	190	51	8.08	1.1	0	94	26
02-08-71	10.08	0	110	187	53	8.08	0.9	0	116	37
02-10-71	10.08	0	104	192	52	8.08	1.0	0	109	28
02-12-71	10.08	0	106	180	53	8.08	1.2	0	110	23

QUANTITY DATA: TONS PER DAY
 FLOW DATA: MILLION GALLONS PER DAY

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUALITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	pH	ALK	ACD	SO ₄	T.Fe	pH	ALK	ACD	SO ₄	T.Fe
02-15-71	4.2	0	2,560	4,637	1,330	7.2	38	0	2,890	670
02-16-71	4.3	0	2,796	4,973	1,520	8.1	20	0	2,659	620
02-17-71	4.3	0	2,586	4,406	1,280	8.9	24	0	2,966	960
02-18-71	4.2	0	2,394	4,560	1,310	9.9	44	0	3,091	700
02-19-71	4.4	0	2,498	4,378	1,380	9.7	36	0	2,698	1,050
02-22-71	4.4	0	2,488	4,243	1,230	10.4	60	0	3,053	590
02-23-71	4.3	0	2,504	4,435	1,220	10.5	56	0	2,822	850
02-24-71	4.3	0	2,146	4,253	1,170	6.7	38	0	3,341	175
02-25-71	4.3	0	2,546	4,224	1,280	7.8	52	0	3,475	545
02-26-71	4.2	0	2,400	4,349	1,280	8.1	28	0	2,765	570
03-05-71	4.4	0	2,290	3,619	1,130	8.0	72	0	2,890	64
03-11-71	4.4	0	2,350	3,974	1,150	6.6	44	0	3,658	53

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUANTITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	FLOW	ALK	ACD	S04	T.Fe	FLOW	ALK	ACD	S04	T.Fe
02-15-71	10.08	0	108	195	56	8.08	1.3	0	97	23
02-16-71	10.08	0	118	209	64	8.08	0.7	0	90	21
02-17-71	10.08	0	109	185	54	8.08	0.8	0	100	32
02-18-71	10.08	0	101	192	55	8.08	1.5	0	104	24
02-19-71	7.06	0	74	129	41	5.06	0.8	0	57	22
02-22-71	10.08	0	105	178	52	8.08	2.0	0	103	20
02-23-71	10.08	0	105	186	51	8.08	1.9	0	95	29
02-24-71	10.08	0	90	179	49	8.08	1.3	0	113	6
02-25-71	10.08	0	107	178	54	8.08	1.8	0	117	18
02-26-71	10.08	0	101	183	54	8.08	0.9	0	93	19
03-05-71	7.98	0	76	120	38	5.98	1.8	0	72	2
03-11-71	6.72	0	66	111	32	4.72	0.9	0	72	1

QUANTITY DATA: TONS PER DAY
 FLOW DATA: MILLION GALLONS PER DAY

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUALITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	pH	ALK	ACD	SO ₄	T. Fe	pH	ALK	ACD	SO ₄	T. Fe
03-18-71	4.4	0	2,024	4,126	1,180	6.2	28	0	3,360	270
03-25-71	4.5	6	1,848	4,425	1,230	5.9	10	46	3,350	407
03-29-71	4.1	0	2,324	4,214	1,210	7.0	118	0	3,638	465
04-01-71	4.3	0	2,280	6,403	1,690	7.2	64	0	3,782	327
04-08-71	5.1	26	1,564	2,688	1,470	8.6	30	0	2,150	575
04-15-71	4.1	0	2,406	2,044	1,150	9.0	40	0	2,092	---
04-23-71	4.1	0	2,256	4,147	1,980	6.7	106	0	2,813	765
04-30-71	4.1	0	1,746	4,109	1,910	7.4	64	0	3,389	715
05-06-71	4.2	0	1,398	3,149	1,200	6.3	16	8	3,159	38
05-13-71	4.1	0	1,470	3,101	1,430	6.3	36	0	3,024	405
05-20-71	4.3	0	1,132	2,842	1,230	7.5	64	0	2,928	34
05-27-71	4.1	0	2,224	4,128	1,790	6.4	94	5	3,370	645
06-03-71	4.4	0	2,312	4,051	1,850	4.7	4	382	3,082	387

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUANTITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	FLOW	ALK	ACD	SO ₄	T.Fe	FLOW	ALK	ACD	SO ₄	T.Fe
03-18-71	10.08	0	85	173	50	8.08	0.9	0	113	9
03-25-71	6.83	0.2	53	126	35	4.83	0.2	0.9	67	8
03-29-71	10.08	0	98	177	51	8.08	4.0	0	123	16
04-01-71	7.56	0	72	202	53	5.56	1.5	0	88	8
04-08-71	10.08	1.1	66	113	62	8.08	1.0	0	72	19
04-15-71	7.56	0	76	64	36	5.56	0.9	0	49	--
04-23-71	6.41	0	60	111	53	4.41	1.9	0	52	14
04-30-71	8.82	0	64	151	70	6.82	1.8	0	96	20
05-06-71	7.20	0	42	95	36	5.40	0.4	0.2	71	1
05-13-71	7.56	0	46	98	45	5.56	0.8	0	70	9
05-20-71	5.04	0	24	60	26	3.04	0.8	0	37	0.4
05-27-71	10.08	0	93	174	75	8.08	3.2	0.2	114	22
06-03-71	7.56	0	73	128	58	5.56	0.1	8.9	71	9

QUANTITY DATA: TONS PER DAY
 FLOW DATA: MILLION GALLONS PER DAY

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUALITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	pH	ALK	ACD	SO ₄	T. Fe	pH	ALK	ACD	SO ₄	T. Fe
06-10-71	4.7	0	1,140	2,959	995	12.4	268	0	2,486	6.5
06-17-71	4.3	0	2,100	3,542	1,230	10.6	44	0	3,139	0.9
06-24-71	3.1	0	1,838	2,371	1,910	3.8	0	176	3,005	143
07-01-71	2.8	0	2,456	4,358	2,060	2.8	0	361	3,014	361
07-08-71	4.2	0	2,180	3,878	2,180	4.2	0	268	2,966	268
07-15-71	4.1	0	2,680	4,109	1,440	7.3	20	8	2,342	765
07-22-71	4.1	0	2,488	4,704	1,200	9.7	56	0	2,717	740
07-29-71	4.3	2	2,234	4,045	1,210	7.1	38	0	3,106	950
08-05-71	4.1	0	1,466	3,130	1,000	10.1	96	0	2,448	620
08-12-71	4.2	0	2,218	4,032	1,990	6.7	136	0	2,899	1,230
08-20-71	4.0	0	1,920	3,936	2,220	6.5	98	0	3,024	1,740
08-26-71	4.0	0	2,590	3,984	1,740	7.1	78	0	2,780	1,080
09-03-71	3.9	0	2,824	3,782	1,240	6.7	132	0	3,226	750

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUANTITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	FLOW	ALK	ACD	SO ₄	T.Fe	FLOW	ALK	ACD	SO ₄	T.Fe
06-10-71	5.04	0	24	62	21	3.04	3.4	0	32	0.08
06-17-71	7.56	0	66	112	39	5.56	1.0	0	73	0.02
06-24-71	8.09	0	62	80	64	6.09	0	4.5	76	3.6
07-01-71	5.25	0	54	95	45	3.25	0	4.9	41	4.9
07-08-71	8.82	0	80	143	80	6.82	0	7.6	84	7.6
07-15-71	10.08	0	113	173	61	8.08	0.7	0.3	79	26
07-22-71	10.08	0	105	198	50	8.08	1.9	0	92	25
07-29-71	10.08	0.08	94	170	51	8.08	1.3	0	105	32
08-05-71	10.08	0	62	132	42	8.08	3.4	0	82	21
08-12-71	10.08	0	93	169	84	8.08	4.6	0	98	41
08-20-71	10.08	0	81	165	93	8.08	3.3	0	102	59
08-26-71	8.93	0	96	148	65	7.13	2.3	0	83	32
09-03-71	8.61	0	101	136	45	6.91	3.8	0	93	22

QUANTITY DATA: TONS PER DAY
 FLOW DATA: MILLION GALLONS PER DAY

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT

INFLUENT AND EFFLUENT QUALITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	pH	ALK	ACD	SO ₄	T.Fe	pH	ALK	ACD	SO ₄	T.Fe
09-09-71	4.0	0	2,254	4,752	1,940	7.0	116	0	3,994	2,420
09-16-71	4.1	0	2,068	3,533	1,840	6.9	54	0	2,755	1,220
09-23-71	4.1	0	2,000	3,754	1,710	6.1	94	160	3,379	620
09-30-71	4.2	0	1,596	3,418	1,430	10.9	46	0	4,368	1,070
10-07-71	3.1	0	1,814	3,446	1,990	6.6	116	0	2,822	400
10-14-71	5.1	14	750	2,342	750	8.7	58	0	2,227	3.9
10-21-71	4.5	3	1,304	2,918	1,560	5.7	26	20	2,515	87
10-28-71	3.3	0	1,526	3,110	1,470	8.7	24	0	2,995	117.5
11-04-71	4.2	0	1,928	3,691	1,520	7.0	104	0	2,755	1,980
11-11-71	5.5	52	620	2,064	1,040	10.1	118	0	1,872	1.4
11-18-71	4.5	4	1,048	2,554	1,610	6.9	48	0	2,592	17.6
12-02-71	4.3	2	2,196	4,531	2,040	7.1	80	0	3,446	750

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT
 WEST BRANCH SUSQUEHANNA RIVER
 DUMAN'S DAM TREATMENT PLANT
 INFLUENT AND EFFLUENT QUANTITY DATA

DATE	I N F L U E N T					E F F L U E N T				
	FLOW	ALK	ACD	SO ₄	T.Fe	FLOW	ALK	ACD	SO ₄	T.Fe
09-09-71	10.08	0	95	200	82	8.08	3.9	0	135	82
09-16-71	10.08	0	87	149	77	8.08	1.8	0	93	41
09-23-71	10.08	0	84	158	72	8.08	3.2	5.4	114	21
09-30-71	10.08	0	67	144	60	8.08	1.5	0	147	36
10-07-71	10.08	0	76	145	84	8.08	3.9	0	95	13
10-14-71	6.72	0.39	21	66	21	4.72	1.1	0	44	0.08
10-21-71	4.62	0.06	25	56	30	3.70	0.4	0.3	39	1.34
10-28-71	5.04	0	32	65	31	3.04	0.3	0	38	1.49
11-04-71	5.04	0	41	78	32	3.04	1.3	0	35	25
11-11-71	8.45	1.83	22	73	37	6.45	3.2	0	50	0.04
11-18-71	7.67	0.13	34	82	51	5.67	1.1	0	61	0.42
12-02-71	10.08	0.08	92	190	86	8.08	2.7	0	116	25

QUANTITY DATA: TONS PER DAY
 FLOW DATA: MILLION GALLONS PER DAY

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

STREAM DATA

ELK CREEK, CAMBRIA COUNTY

DATE	UPSTREAM FROM DUMAN'S DAM DISCHARGE					DOWNSTREAM FROM DUMAN'S DAM DISCHARGE				
	pH	ALK	ACD	SO ₄	T. Fe	pH	ALK	ACD	SO ₄	T. Fe
12-29-70	2.9	0	344	653	80	2.9	0	350	816	110
12-30-70	2.9	0	562	653	179	3.2	0	308	749	105
12-31-70	3.0	0	692	739	174	3.3	0	438	797	121
01-04-71	3.2	0	568	624	160	3.4	0	282	643	89
01-05-71	3.4	0	168	182	54	3.5	0	136	259	53
01-06-71	3.1	0	274	221	58	3.3	0	238	413	67
01-07-71	3.5	0	218	518	70	3.5	0	274	643	92
01-08-71	2.9	0	416	691	106	2.9	0	440	806	128
01-11-71	2.9	0	578	672	168	3.1	0	442	950	149
01-12-71	2.9	0	574	720	168	3.1	0	420	1,094	143
01-13-71	2.9	0	546	845	160	3.2	0	408	1,286	144
01-15-71	3.0	0	504	557	158	3.3	0	258	931	72
01-18-71	2.8	0	784	825	217	4.4.	0	286	1,920	290

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

STREAM DATA

ELK CREEK, CAMBRIA COUNTY

DATE	UPSTREAM FROM DUMAN'S DAM DISCHARGE					DOWNSTREAM FROM DUMAN'S DAM DISCHARGE				
	pH	ALK	ACD	SO ₄	T. Fe	pH	ALK	ACD	SO ₄	T. Fe
01-19-71	3.1	0	742	835	210	5.6	12	220	1,987	400
01-20-71	3.1	0	700	874	213	5.6	8	196	2,112	445
01-21-71	3.2	0	930	998	270	5.6	14	232	1,958	410
02-01-71	3.0	0	1,000	1,123	277	5.3	10	166	2,006	420
02-02-71	3.1	0	920	1,066	270	5.5	14	71	2,054	380
02-03-71	3.0	0	985	1,258	308	5.1	8	184	2,160	360
02-04-71	3.1	0	1,030	1,200	310	5.4	10	152	2,026	435
02-05-71	3.0	0	950	1,162	295	5.6	14	120	1,939	455
02-08-71	3.3	0	690	730	168	5.7	8	142	1,603	290
02-10-71	3.3	0	693	739	170	6.1	10	112	1,910	395
02-12-71	3.2	0	974	893	235	6.1	14	122	1,920	450
02-15-71	3.4	0	264	278	60	4.6	6	100	566	95
02-16-71	3.6	0	374	307	85	5.4	10	98	922	235

QUALITY DATA: PARTS PER MILLION

MINE DRAINAGE REPORT

WEST BRANCH SUSQUEHANNA RIVER

STREAM DATA

ELK CREEK, CAMBRIA COUNTY

DATE	UPSTREAM FROM DUMAN'S DAM DISCHARGE				DOWNSTREAM FROM DUMAN'S DAM DISCHARGE					
	pH	ALK	ACD	SO ₄	T.Fe	pH	ALK	ACD	SO ₄	T.Fe
02-17-71	3.3	0	374	413	105	5.2	12	118	912	175
02-18-71	3.4	0	286	298	65	4.6	6	110	634	100
02-19-71	3.5	0	206	259	75	4.9	8	69	499	103
02-22-71	3.6	0	316	298	68	4.6	6	107	365	85
02-23-71	3.5	0	228	269	71	4.2	0	114	278	52
02-24-71	3.2	0	414	451	118	3.9	0	176	432	84

QUALITY DATA: PARTS PER MILLION

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF JANUARY 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	5.04	.78	4.26	----	----	----	----
2	5.04	.78	4.26	----	----	----	----
3	5.04	.78	4.26	----	----	----	----
4	5.04	.78	4.26	1516	----	----	----
5	5.04	.78	4.26	1516	----	----	----
6	5.04	.78	4.26	1516	1530	1.69	1582
7	5.04	.78	4.26	1516	----	----	----
8	5.04	.78	4.26	----	----	----	----
9	5.04	.78	4.26	----	----	----	----
10	5.04	.78	4.26	----	----	----	----
11	7.56	1.20	6.36	1516	----	----	----
12	10.08	1.80	8.28	1514	----	----	----
13	10.08	1.80	8.28	1512	----	----	----
14	10.08	1.80	8.28	1511	----	----	----
15	10.08	1.80	8.28	1509	----	----	----
16	10.08	1.80	8.28	----	----	----	----
17	10.08	1.80	8.28	----	----	----	----
18	10.08	1.80	8.28	1506	----	----	----
19	10.08	2.0	8.28	1504	----	----	----
20	10.08	2.0	8.08	1503	----	----	----
21	10.08	1.75	8.08	1502	1517	----	1582
22	9.48	2.0	7.73	1501	----	----	----
23	10.08	2.0	8.08	----	----	----	----
24	10.08	2.0	8.08	----	----	----	----
25	10.08	2.0	8.08	1499	----	----	----
26	10.08	2.0	8.08	1499	1515	----	1582
27	10.08	2.0	8.08	1498	----	----	----
28	10.08	2.0	8.08	----	----	----	----
29	10.08	2.0	8.08	1496	----	----	----
30	10.08	2.0	8.08	----	----	----	----
31	10.08	2.0	8.08	----	----	----	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF FEBRUARY 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	10.08	2.0	8.08	1494	----	----	----
2	10.08	2.0	8.08	1493	----	----	----
3	10.08	2.0	8.08	1492	----	1.22	----
4	10.08	2.0	8.08	1492	----	----	----
5	10.08	2.0	8.08	1491	----	----	----
6	10.08	2.0	8.08	----	----	----	----
7	10.08	2.0	8.08	----	----	----	----
8	10.08	2.0	8.08	1489	----	----	----
9	10.08	2.0	8.08	1489	----	----	----
10	10.08	2.0	8.08	1488	----	----	----
11	10.08	2.0	8.08	1488	----	----	----
12	10.08	2.0	8.08	1487	----	----	----
13	10.08	2.0	8.08	----	----	----	----
14	10.08	2.0	8.08	----	----	----	----
15	10.08	2.0	8.08	1486	----	----	----
16	10.08	2.0	8.08	----	----	----	----
17	10.08	2.0	8.08	1485	----	----	----
18	10.08	2.0	8.08	----	----	----	----
19	7.06	2.0	5.06	1484	----	----	----
20	6.77	2.0	4.77	1485	----	----	----
21	10.08	2.0	8.08	----	----	----	----
22	10.08	2.0	8.08	1484	1514	----	1582
23	10.08	2.0	8.08	1484	----	----	----
24	10.08	2.0	8.08	----	----	----	----
25	10.08	2.0	8.08	----	----	----	----
26	10.08	2.0	8.08	1483	----	----	----
27	10.08	2.0	8.08	1482	----	----	----
28	10.08	2.0	8.08	----	----	----	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF MARCH 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	10.08	2.0	8.08	1481	----	----	----
2	8.30	2.0	6.30	1481	----	----	----
3	7.04	1.5	5.54	1482	----	3.37	----
4	6.99	2.0	4.99	----	----	----	----
5	7.98	2.0	5.98	1483	----	----	----
6	10.08	2.0	8.08	1482	----	----	----
7	10.08	2.0	8.08	1481	----	----	----
8	10.08	2.0	8.08	1481	----	----	----
9	10.08	2.0	8.08	1481	----	----	----
10	7.56	2.0	5.56	1481	1493	----	1585
11	6.72	2.0	4.72	1482	----	----	----
12	10.08	2.0	8.08	1481	----	----	----
13	10.08	2.0	8.08	1481	----	----	----
14	10.08	2.0	8.08	1480	----	----	----
15	6.72	2.0	4.72	1480	----	----	----
16	7.14	2.0	5.14	1482	----	----	----
17	10.08	2.0	8.08	1481	----	----	----
18	10.08	2.0	8.08	1481	----	----	----
19	10.08	2.0	8.08	1480	----	----	----
20	5.88	1.7	4.18	1480	----	----	----
21	8.61	2.0	6.61	1482	----	----	----
22	10.08	2.0	8.08	1482	----	----	----
23	10.08	2.0	8.08	1481	----	----	----
24	10.08	2.0	8.08	1481	----	----	----
25	6.83	2.0	4.83	1480	----	----	----
26	8.30	2.0	6.30	1482	----	----	----
27	10.08	2.0	8.08	1482	----	----	----
28	10.08	2.0	8.08	----	----	----	----
29	10.08	2.0	8.08	1481	----	----	----
30	10.08	2.0	8.08	1480	----	----	----
31	6.72	2.0	4.72	1480	----	----	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF APRIL 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	7.56	2.0	5.56	1482	----	----	----
2	10.08	2.0	8.08	1482	----	1.22	----
3	10.08	2.0	8.08	1481	----	----	----
4	10.08	2.0	8.08	----	----	----	----
5	10.08	2.0	8.08	1480	----	----	----
6	6.83	2.0	4.83	1480	----	----	----
7	7.56	2.0	5.56	1482	----	----	----
8	10.08	2.0	8.08	1482	1496	1.22	1586
9	10.08	2.0	8.08	1481	1495	1.00	1586
10	6.72	2.0	4.72	1480	----	----	----
11	8.40	2.0	6.40	1482	----	----	----
12	10.08	2.0	8.08	1482	1495	.79	1586
13	10.08	2.0	8.08	1482	1494	.70	1586
14	6.72	2.0	4.72	1482	1494	.70	1586
15	7.56	2.0	5.56	1483	1494	.70	1585
16	10.08	2.0	8.08	1482	1494	.70	1585
17	10.08	2.0	8.08	1481	----	----	----
18	6.72	2.0	4.72	1480	----	----	----
19	8.40	2.0	6.40	1483	1494	.70	1585
20	10.08	2.0	8.08	1483	1494	.70	1584
21	10.08	2.0	8.08	1482	1494	.70	1584
22	6.72	2.0	4.72	1482	1494	.70	1584
23	6.41	2.0	4.41	1483	1494	.70	1583
24	10.08	2.0	8.08	1482	----	----	----
25	10.08	2.0	8.08	1481	----	----	----
26	10.08	2.0	8.08	1482	1493	.70	1583
27	10.08	2.0	8.08	1481	1493	.70	1583
28	10.08	2.0	8.08	1481	1492	.70	1582
29	8.82	2.0	6.82	1480	1492	.70	1582
30	8.82	2.0	6.82	1481	1492	.70	1582

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF MAY 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	10.08	2.0	8.08	----	----	----	----
2	10.08	2.0	8.08	----	----	----	----
3	10.08	2.0	8.08	1480	1491	.70	1581
4	7.56	2.0	5.56	1480	1490	.70	1581
5	5.04	2.0	3.04	1481	1491	.70	1581
6	7.20	1.8	5.40	1481	1492	.61	1580
7	7.56	2.0	5.56	1481	1492	1.00	1580
8	7.35	2.0	5.35	1481	----	----	----
9	10.08	2.0	8.08	----	----	----	----
10	10.08	2.0	8.08	1480	1493	.79	1580
11	7.56	2.0	5.56	1480	1492	.79	1579
12	7.56	2.0	5.56	1481	1492	.79	1579
13	7.56	2.0	5.56	1481	1493	.79	1579
14	7.56	2.0	5.56	1481	1493	.79	1579
15	10.08	2.0	8.08	----	----	----	----
16	7.56	2.0	5.56	----	----	----	----
17	6.72	1.7	5.02	1482	1493	.70	1578
18	5.04	2.0	3.04	1482	1493	.70	1578
19	5.04	2.0	3.04	1483	1494	.70	1578
20	5.04	2.0	3.04	1484	1495	.61	1578
21	5.04	2.0	3.04	1485	1496	.61	1578
22	6.26	2.0	4.26	----	----	----	----
23	10.08	2.0	8.08	----	----	----	----
24	6.93	2.0	4.93	1485	1497	.61	1577
25	7.56	2.0	5.56	1485	1497	.61	1577
26	10.08	2.0	8.08	1484	1496	.61	1576
27	10.08	2.0	8.08	1483	1495	.61	1576
28	7.46	2.0	5.46	1483	1495	.61	1576
29	3.26	.6	2.66	1482	----	----	----
30	10.08	2.0	8.08	----	----	----	----
31	10.08	2.0	8.08	----	----	----	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF JUNE 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	8.66	1.8	6.86	1483	1494	.52	1576
2	7.46	2.0	5.46	1483	1494	.52	1576
3	7.56	2.0	5.56	1484	1495	.52	1575
4	6.83	2.0	4.83	1484	1495	.52	1575
5	10.08	2.0	8.08	----	----	---	----
6	5.67	2.0	3.67	----	----	---	----
7	4.60	1.8	2.80	1485	1495	.43	1574
8	5.40	2.0	3.04	1485	1495	.43	1574
9	5.04	2.0	3.04	1485	1496	.43	1574
10	5.04	2.0	3.04	1486	1496	.43	1574
11	6.44	2.0	4.44	1486	1497	.43	1574
12	10.08	2.0	8.08	----	----	---	----
13	8.82	2.0	6.82	----	----	---	----
14	5.04	2.0	3.04	1485	1496	.43	1573
15	7.56	2.0	5.56	1485	1496	.43	1573
16	7.56	2.0	5.56	1485	1496	.43	1573
17	7.56	2.0	5.56	1485	1496	.43	1573
18	7.28	2.0	5.28	1485	1496	.43	1573
19	6.93	2.0	4.93	----	----	---	----
20	5.67	2.0	3.67	----	----	---	----
21	6.41	2.0	4.41	1485	1496	.43	1572
22	5.04	1.5	3.54	1486	1497	.43	1572
23	5.04	2.0	3.04	1486	1497	.43	1572
24	8.09	2.0	6.09	1486	1497	.43	1572
25	6.13	2.0	4.13	1486	1497	.43	1572
26	5.04	2.0	3.04	----	----	---	----
27	6.30	2.0	4.30	----	----	---	----
28	9.94	2.0	7.94	1486	1498	.43	1571
29	10.08	2.0	8.08	1485	1497	.43	1571
30	9.01	2.0	7.01	1484	1496	.43	1571

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF JULY 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	5.25	2.0	3.25	1484	1495	.43	1571
2	5.04	2.0	3.04	1484	1495	.43	1571
3	4.62	2.0	2.62	----	----	---	----
4	7.98	2.0	5.98	----	----	---	----
5	10.08	2.0	8.08	----	----	---	----
6	10.08	2.0	8.08	1483	1495	.43	1571
7	9.94	2.0	7.94	1482	1494	.43	1571
8	8.82	2.0	6.82	1481	1492	.43	1570
9	8.19	2.0	6.19	1481	1491	.43	1570
10	10.08	2.0	8.08	----	----	---	----
11	10.08	2.0	8.08	----	----	---	----
12	10.08	2.0	8.08	1475	1489	.43	1570
13	10.08	2.0	8.08	1474	1488	.43	1570
14	10.08	2.0	8.08	1473	1487	.43	1570
15	10.08	2.0	8.08	1472	1486	.43	1570
16	9.45	2.0	7.45	1471	1485	.43	1570
17	10.08	2.0	8.08	----	----	---	----
18	10.08	2.0	8.08	----	----	---	----
19	10.08	2.0	8.08	----	1483	.43	1570
20	10.08	2.0	8.08	1467	1482	.43	1570
21	10.08	2.0	8.08	----	1481	.43	1570
22	10.08	2.0	8.08	----	1480	.43	1570
23	9.10	1.8	7.30	1464	1480	.43	1569
24	10.08	2.0	8.08	----	----	---	----
25	10.08	2.0	8.08	----	----	---	----
26	10.08	2.0	8.08	1464	1478	.36	1569
27	10.08	2.0	8.08	1463	1478	.36	1569
28	10.08	2.0	8.08	1462	1477	.36	1569
29	10.08	2.0	8.08	1462	1476	.36	1569
30	9.24	2.0	7.24	1461	1476	.36	1569
31	10.08	2.0	8.08	----	----	---	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF AUGUST 1971

DAY OF MONTH	BARNES & TUCKER CO.					STERLING COAL CO.	
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	10.08	2.0	8.08	----	----	---	----
2	0.53	.1	.43	1461	1475	.36	1569
3	5.04	1.0	4.04	1462	1477	.36	1569
4	10.08	2.0	8.08	1462	1477	.36	1570
5	10.08	2.0	8.08	1462	1477	.36	1570
6	10.08	2.0	8.08	1461	1476	.36	1570
7	10.08	2.0	8.08	----	----	---	----
8	10.08	2.0	8.08	----	----	---	----
9	10.08	2.0	8.08	1460	1475	.36	1570
10	10.08	2.0	8.08	1459	1474	.36	1570
11	10.08	2.0	8.08	1458	1473	.36	1570
12	10.08	2.0	8.08	1458	1473	.36	1570
13	7.81	1.6	6.21	1457	1472	.36	1570
14	9.56	1.9	7.66	----	----	---	----
15	7.88	1.6	6.28	----	----	---	----
16	8.82	1.8	7.02	1457	1471	.36	1570
17	9.43	1.9	7.53	1456	1470	.36	1570
18	10.08	2.0	8.08	1455	1470	.36	1571
19	10.08	2.0	8.08	1455	1469	.36	1571
20	10.08	2.0	8.08	1454	1468	.36	1571
21	8.94	2.0	6.94	----	----	---	----
22	10.08	2.0	8.08	----	----	---	----
23	10.08	2.0	8.08	1453	1467	.36	1571
24	10.08	2.0	8.08	1452	1467	.36	1571
25	10.08	2.0	8.08	1452	1467	.36	1571
26	8.93	1.8	7.13	1451	1466	.36	1571
27	9.66	2.0	7.66	1451	----	---	----
28	10.08	2.0	8.08	----	----	---	----
29	10.08	2.0	8.08	----	----	---	----
30	10.08	2.0	8.08	1450	1465	.36	1572
31	10.08	2.0	8.08	1450	1465	.36	1572

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF SEPTEMBER 1971

DAY OF MONTH	BARNES & TUCKER CO.					STERLING COAL CO.	
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	9.77	2.0	7.77	1449	----	---	----
2	8.96	1.8	7.16	----	1464	.36	1572
3	8.61	1.7	6.91	1449	----	---	----
4	10.08	2.0	8.08	----	----	---	----
5	10.08	2.0	8.08	----	----	---	----
6	10.08	2.0	8.08	----	----	---	----
7	10.08	2.0	8.08	1447	1462	.36	1573
8	10.08	2.0	8.08	1447	1462	.36	1574
9	10.08	2.0	8.08	1446	1461	.36	1574
10	10.08	2.0	8.08	1446	----	---	----
11	10.08	2.0	8.08	----	----	---	----
12	10.08	2.0	8.08	----	----	---	----
13	10.08	2.0	8.08	1445	----	---	----
14	10.08	2.0	8.08	1445	1459	.43	1575
15	10.08	2.0	8.08	1444	----	---	----
16	10.08	2.0	8.08	1444	----	---	----
17	10.08	2.0	8.08	----	1458.5	.61	----
18	10.08	2.0	8.08	----	----	---	----
19	10.08	2.0	8.08	----	----	---	----
20	10.08	2.0	8.08	1444	1458	.79	1577
21	10.08	2.0	8.08	1443	----	---	----
22	10.08	2.0	8.08	1443	----	---	----
23	10.08	2.0	8.08	1443	----	---	----
24	10.08	2.0	8.08	1443	1457	.70	----
25	10.08	2.0	8.08	----	----	---	----
26	10.08	2.0	8.08	----	----	---	----
27	10.08	2.0	8.08	1442	1456	.61	1578
28	10.08	2.0	8.08	1442	----	---	----
29	10.08	2.0	8.08	1442	----	---	----
30	10.08	2.0	8.08	1441	----	---	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF OCTOBER 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	10.08	2.0	8.08	1441	1456	.61	----
2	10.08	2.0	8.08	----	----	---	----
3	9.24	1.8	7.44	----	----	---	----
4	10.08	2.0	8.08	1441	1455	.61	1580
5	10.08	2.0	8.08	----	----	---	----
6	10.08	2.0	8.08	1440	----	---	----
7	10.08	2.0	8.08	----	1454	.52	----
8	10.08	2.0	8.08	----	----	---	----
9	8.19	1.6	6.59	----	----	---	----
10	0	0	0	----	----	---	----
11	2.52	1.0	1.52	----	1457	.52	1581
12	6.09	2.0	4.09	----	----	---	----
13	5.04	2.0	3.04	----	----	---	----
14	6.72	2.0	4.72	----	----	---	----
15	10.08	2.0	8.08	----	----	---	----
16	10.08	2.0	8.08	----	----	---	----
17	10.08	2.0	8.08	----	----	---	----
18	6.30	1.25	5.05	----	----	---	----
19	10.08	2.0	8.08	----	1460	.43	----
20	10.08	2.0	8.08	----	----	---	----
21	4.62	.92	3.70	----	----	---	----
22	3.26	.71	2.55	----	----	---	----
23	10.08	2.0	8.08	----	----	---	----
24	10.08	2.0	8.08	----	----	---	----
25	10.08	2.0	8.08	----	----	---	----
26	7.98	2.0	5.98	----	1460	.43	----
27	5.04	2.0	3.04	----	----	---	----
28	5.04	2.0	3.04	----	----	---	----
29	3.41	1.35	2.06	----	----	---	----
30	4.83	1.0	3.83	----	----	---	----
31	10.08	2.0	8.08	----	----	---	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF NOVEMBER 1971

DAY OF MONTH	BARNES & TUCKER CO.				STERLING COAL CO.		
	DUMAN TREATMENT PLANT			MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT
	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET
1	10.08	2.0	8.08	----	----	---	----
2	10.08	2.0	8.08	----	1462	.43	----
3	6.83	2.0	4.83	----	----	---	----
4	5.04	2.0	3.04	----	----	---	----
5	5.04	2.0	3.04	----	----	---	----
6	5.04	2.0	3.04	----	----	---	----
7	5.04	2.0	3.04	----	----	---	----
8	3.68	1.46	2.22	----	----	---	----
9	4.88	1.48	3.40	----	----	---	----
10	10.08	2.0	8.08	1453	----	---	----
11	8.45	2.0	6.45	1452	1466	.43	----
12	10.08	2.0	8.08	1452	----	---	----
13	10.08	2.0	8.08	----	----	---	----
14	10.08	2.0	8.08	----	----	---	----
15	6.35	2.0	4.35	1450	----	---	----
16	5.04	2.0	3.04	----	----	---	----
17	5.04	2.0	3.04	----	----	---	----
18	7.67	2.0	5.67	----	1466	.43	----
19	10.08	2.0	8.08	1451	----	---	----
20	10.08	2.0	8.08	----	----	---	----
21	10.08	2.0	8.08	----	----	---	----
22	10.08	2.0	8.08	1449	----	---	----
23	10.08	2.0	8.08	1449	1463	.43	----
24	10.08	2.0	8.08	----	----	---	----
25	9.56	2.0	7.56	----	----	---	----
26	9.03	2.0	7.03	----	----	---	----
27	10.08	2.0	8.08	----	----	---	----
28	10.08	2.0	8.08	----	----	---	----
29	10.08	2.0	8.08	----	----	---	----
30	10.08	2.0	8.08	----	1463	.43	----

RECORD OF PUMPING DISCHARGE AND POOL ELEVATION
LANCASHIRE #15 MINE AND STERLING MINE COMPLEX

MONTH OF DECEMBER 1971

BARNES & TUCKER CO.								STERLING COAL CO.		
DUMAN TREATMENT PLANT				MABERRY BOREHOLE	NO. 15 SHAFT	NO. 7 DRIFT	NO. 1 SHAFT			
DAY OF MONTH	RAW WATER PUMPED M.G.D.	SLUDGE RETURN M.G.D.	TREATED DISCHARGE M.G.D.	POOL ELEVATION FEET	POOL ELEVATION FEET	MINE DRAINAGE M.G.D.	POOL ELEVATION FEET			
1	10.08	2.0	8.08	1445	----	---	----			
2	10.08	2.0	8.08	----	1459	.43	----			
3	10.08	2.0	8.08	----	----	---	----			
4	10.08	2.0	8.08	----	----	---	----			
5	10.08	2.0	8.08	----	----	---	----			
6	10.08	2.0	8.08	1442	----	.70	----			
7	10.08	2.0	8.08	1442	----	---	----			
8	10.08	2.0	8.08	1441	----	---	----			
9	8.19	2.0	6.19	1441	----	---	----			
10	10.08	2.0	8.08	----	----	---	----			
11	10.08	2.0	8.08	----	----	---	----			
12	10.08	2.0	8.08	----	----	---	----			
13	10.08	2.0	8.08	----	----	---	----			
14	10.08	2.0	8.08	----	----	---	----			
15	10.08	2.0	8.08	1438	----	---	----			
16	10.08	2.0	8.08	1438	----	---	----			
17	10.08	2.0	8.08	1438	----	---	1587			
18	10.08	2.0	8.08	----	----	---	----			
19	10.08	2.0	8.08	----	----	---	----			
20	10.08	2.0	8.08	1437	----	---	----			
21	10.08	2.0	8.08	1437	----	---	----			
22	10.08	2.0	8.08	----	----	.61	1588			
23	10.08	2.0	8.08	----	----	---	----			
24	10.08	2.0	8.08	----	----	---	----			
25	10.08	2.0	8.08	----	----	---	----			
26	10.08	2.0	8.08	----	----	---	----			
27	10.08	2.0	8.08	1434	----	.70	----			
28	10.08	2.0	8.08	1434	----	---	----			
29	10.08	2.0	8.08	----	----	---	----			
30	10.08	2.0	8.08	1433	----	---	1588			
31	10.08	2.0	8.08	----	----	---	----			

WATER QUALITY OF BLACKLICK CREEK

(WATER YEAR 1970)

<u>Date</u>	<u>Lab pH</u>	<u>Turbidity</u>	<u>Mineral Acid</u>	<u>Total Acid</u>	<u>Hardness</u>
13 Oct. 69	2.84	10	356	441	387
27 Oct. 69	2.82	1	361	488	91
10 Nov. 69	3.05	23	125	257	214
24 Nov. 69	3.12	20	128	173	123
8 Dec. 69	3.05	50	189	249	187
22 Dec. 69	3.03	50	159	205	138
12 Jan. 70	3.28	10	189	267	173
26 Jan. 70	3.12	43	142	182	156
9 Feb. 70	3.34	66	138	141	168
23 Feb. 70	3.28	40	122	162	107
9 Mar. 70	3.42	40	145	169	133
23 Mar. 70	3.37	58	116	142	120
13 Apr. 70	3.28	98	147	202	91
27 Apr. 70	3.45	45	96	128	96
11 May 70	2.90	10	256	328	237
25 May 70	3.10	20	157	183	
8 Jun. 70	2.30	2	262	331	212
22 Jun. 70	3.24	5	114	152	140
13 Jul. 70	2.75	4	238	332	130
27 Jul. 70	2.85	1.8	415	503	267
10 Aug. 70	2.89	1	294	333	301
24 Aug. 70	3.01	18	152	201	164
14 Sept. 70	2.92	40	204	273	201
28 Sept. 70	2.80	10	251	343	271

NOTE: Turbidity reported as JTU
 Other values reported as MG/L Calcium Carbonate
 Data supplied by U.S. Army Corps of Engineers

WATER QUALITY OF THE CONEMAUGH RESERVOIR INFLOW

(WATER YEAR 1970)

<u>Date</u>	<u>Lab pH</u>	<u>Turbidity</u>	<u>Mineral Acid</u>	<u>Total Acid</u>	<u>Hardness</u>
13 Oct. 69	3.29	0.4	92	120	170
27 Oct. 69	3.32	18	127	170	297
10 Nov. 69	3.61	48	78	81	236
24 Nov. 69	3.45	25	63	83	156
8 Dec. 69	3.61	28	66	94	201
22 Dec. 69	3.62	27	65	87	164
12 Jan. 70	4.56	50	65	121	180
26 Jan. 70	3.53	28	72	103	175
9 Feb. 70	4.30	26	90	106	190
23 Feb. 70	4.18	29	53	54	106
9 Mar. 70	4.48	12	36	50	110
23 Mar. 70	4.12	17	35	39	135
13 Apr. 70	4.47	14	32	57	100
27 Apr. 70	4.02	20	33	40	114
11 May 70	3.50	15	98	116	226
25 May 70	3.55	11	80	112	178
8 Jun. 70	3.05	8	62	86	154
22 Jun. 70	4.03	62	23	23	106
13 Jul. 70	3.27	1	85	111	185
27 Jul. 70	3.52	3	96	130	287
10 Aug. 70	3.42	4	97	181	263
24 Aug. 70	3.59	48	101	135	298
14 Sept. 70	3.38	1.2	103	149	355
28 Sept. 70	3.30	3	114	222	364

NOTE: Turbidity reported as JTU
 Other values reported as MG/L Calcium Carbonate
 Data supplied by U.S. Army Corps of Engineers

CONEMAUGH RESERVOIR OUTFLOW

(WATER YEAR 1970)

<u>Date</u>	<u>Lab pH</u>	<u>Turbidity</u>	<u>Mineral Acid</u>	<u>Total Acid</u>	<u>Hardness</u>
13 Oct. 69	3.18	1.6	142	172	317
27 Oct. 69	3.28	4	131	187	318
10 Nov. 69	3.42	1	152	160	266
24 Nov. 69	3.52	1	54	75	146
8 Dec. 69	3.29	5	92	127	208
22 Dec. 69	3.40	18	80	100	150
12 Jan. 70	4.03	5	108	161	185
26 Jan. 70	3.68	3	101	138	178
9 Feb. 70	4.08	4	47	64	150
23 Feb. 70	4.03	0.8	73	116	122
9 Mar. 70	4.01	5	43	51	103
23 Mar. 70	4.06	1	62	78	134
13 Apr. 70	4.18	11	46	49	106
27 Apr. 70	4.26	0.4	37	54	97
11 May 70	3.23	7	126	172	227
25 May 70	3.30	1.2	102	148	154
8 Jun. 70	2.64	1	137	192	235
22 Jun. 70	3.70	7	46	58	109
13 Jul. 70	3.37	0.7	73	84	146
27 Jul. 70	3.22	0.2	132	178	269
10 Aug. 70	3.22	7	141	199	288
24 Aug. 70	3.30	2	150	195	238
14 Sept. 70	3.10	0.6	127	190	308
28 Sept. 70	3.10	0.3	113	155	314

NOTE: Turbidity reported as JTU
 Other values reported as MG/L Calcium Carbonate
 Data supplied by U.S. Army Corps of Engineers