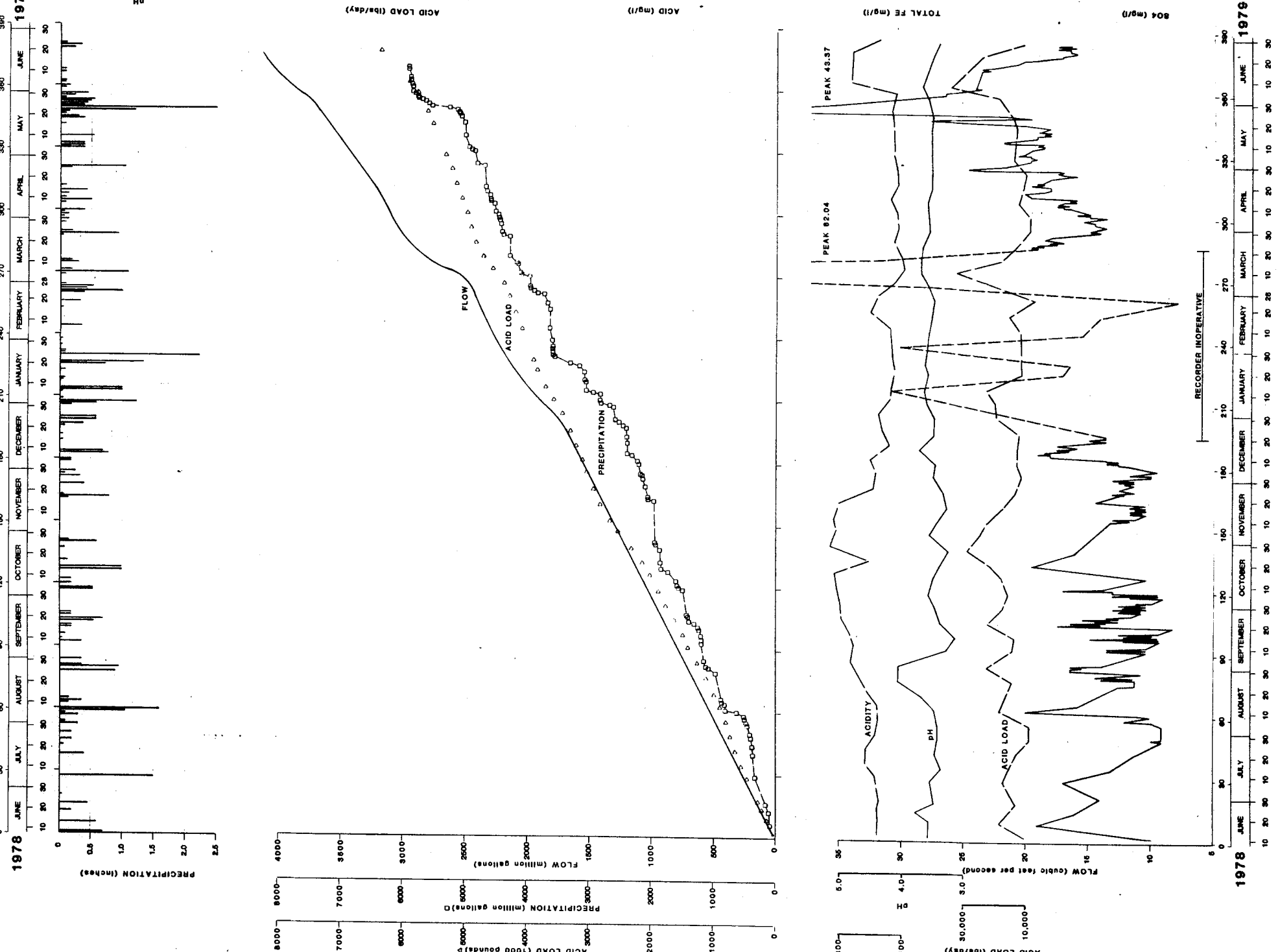


Appendix B



WATER QUALITY DATA --- CATAWISSA CREEK
SLT-33-11
WLT-A

SAMPLING DATE	TIME	FLOW (cfs)	PH	ACID (mg/l)	ALVA. (mg/l)	TD. IRON (mg/l)	FE++ IRON (mg/l)	S04 (mg/l)	ACID LOAD (lbs./day)	IRON LOAD (lbs./day)
06/08/78	0	3.30	3.60	184	0	2.0	0.8	265	9223	100
06/09/78	15	15.30	3.58	180	0	2.0	0.8	242	18725	208
06/10/78	17	15.20	3.57	177	0	0.1	0.5	279	16067	183
06/25/78	17	15.20	3.57	177	0	0.1	0.5	279	16067	183
07/06/78	28	13.20	3.40	222	0	2.6	1.8	348	13575	328
07/12/78	34	13.30	3.49	199	0	2.6	1.8	336	15915	382
07/19/78	41	11.50	3.43	182	0	2.8	1.9	328	13575	328
07/26/78	55	6.30	3.50	183	0	2.8	1.9	328	9474	145
08/02/78	62	19.30	3.70	214	0	2.8	1.9	378	16936	222
08/15/78	68	11.40	3.41	209	0	2.9	2.0	361	15062	180
08/23/78	6	11.50	3.40	209	0	2.9	2.0	361	15062	180
08/30/78	6	11.50	3.40	209	0	2.9	2.0	361	15062	180
09/07/78	91	11.80	3.51	249	0	3.0	2.1	362	22865	276
09/13/78	97	9.70	3.48	272	0	3.0	2.1	362	17965	213
09/20/78	104	14.20	3.41	303	0	3.6	2.6	385	17965	213
09/27/78	111	18.00	3.49	303	0	3.6	2.6	385	17965	213
10/04/78	118	18.00	3.52	314	0	3.7	2.7	385	17965	213
10/11/78	126	18.00	3.52	314	0	3.7	2.7	385	17965	213
10/18/78	132	19.00	3.42	209	0	2.3	2.0	349	29426	314
10/25/78	139	19.00	3.42	209	0	2.3	2.0	349	29426	314
11/02/78	147	17.70	3.58	317	0	3.4	2.4	362	25117	269
11/09/78	154	17.00	3.51	317	0	3.4	2.4	362	25117	269
11/15/78	160	12.80	3.31	210	0	2.7	2.0	362	17965	213
11/22/78	167	12.80	3.31	210	0	2.7	2.0	362	17965	213
11/30/78	175	11.00	3.52	191	0	2.9	2.0	369	11639	180
12/06/78	181	11.90	3.49	208	0	3.1	1.6	282	13341	199
12/13/78	188	11.90	3.49	208	0	3.1	1.6	282	13341	199
12/20/78	195	19.80	3.52	177	0	3.1	1.6	282	13341	199
12/28/78	203	20.60	3.63	146	0	2.5	1.5	237	20597	250
01/04/79	210	26.30	3.63	146	0	2.5	1.5	237	20597	250
01/10/79	216	31.10	3.67	139	0	1.9	0.9	194	23100	218
01/17/79	223	17.70	3.61	129	0	1.9	0.9	194	23100	218
01/24/79	229	17.70	3.61	129	0	1.9	0.9	194	23100	218
02/07/79	244	15.71	3.60	145	0	1.7	1.3	229	2545	186
02/14/79	252	14.24	3.56	210	0	2.0	2.0	270	12119	159
02/21/79	259	15.53	3.71	100	0	1.7	1.7	241	8009	109
02/28/79	266	27.32	3.52	132	0	1.7	1.4	215	19459	251
03/07/79	273	35.98	3.50	132	0	1.7	1.4	215	19459	251
03/14/79	279	35.98	3.50	132	0	1.7	1.4	215	19459	251
03/21/79	286	15.53	3.71	100	0	1.7	1.7	241	8009	109
03/28/79	293	15.22	3.61	123	0	1.6	1.4	213	9447	131
04/04/79	300	14.25	3.61	123	0	1.6	1.4	213	9447	131
04/11/79	307	16.27	3.57	113	0	1.6	1.4	213	9447	131
04/18/79	314	18.27	3.57	113	0	1.6	1.4	213	9447	131
04/25/79	321	16.21	3.57	113	0	1.6	1.4	213	9447	131
05/02/79	328	20.42	3.57	134	0	1.5	0.8	248	14749	164
05/17/79	343	18.80	3.57	134	0	1.5	0.8	248	14749	164
05/31/79	358	28.56	3.22	172	0	1.5	1.1	261	13781	152
06/06/79	363	23.79	3.71	274	0	1.5	1.1	261	13781	152
06/13/79	378	17.23	3.54	182	0	1.5	1.1	261	13781	152
06/21/79	384	12.00	3.43	182	0	1.7	1.4	293	24889	200
06/27/79	384	12.00	3.43	182	0	1.7	1.4	293	24889	200
ANNUAL MEAN		17.0	3.67	187	0	2.8	1.5	292	16681	181.7

LEGEND:
 W - WINTER
 S - SPRING
 O - SUMMER
 F - FALL

SAMPLING PERIOD:
 JUNE 1978 - JUNE 1979
 DRAINAGE AREA: 6.45sq. mi.

AUDENRIED TUNNEL

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES

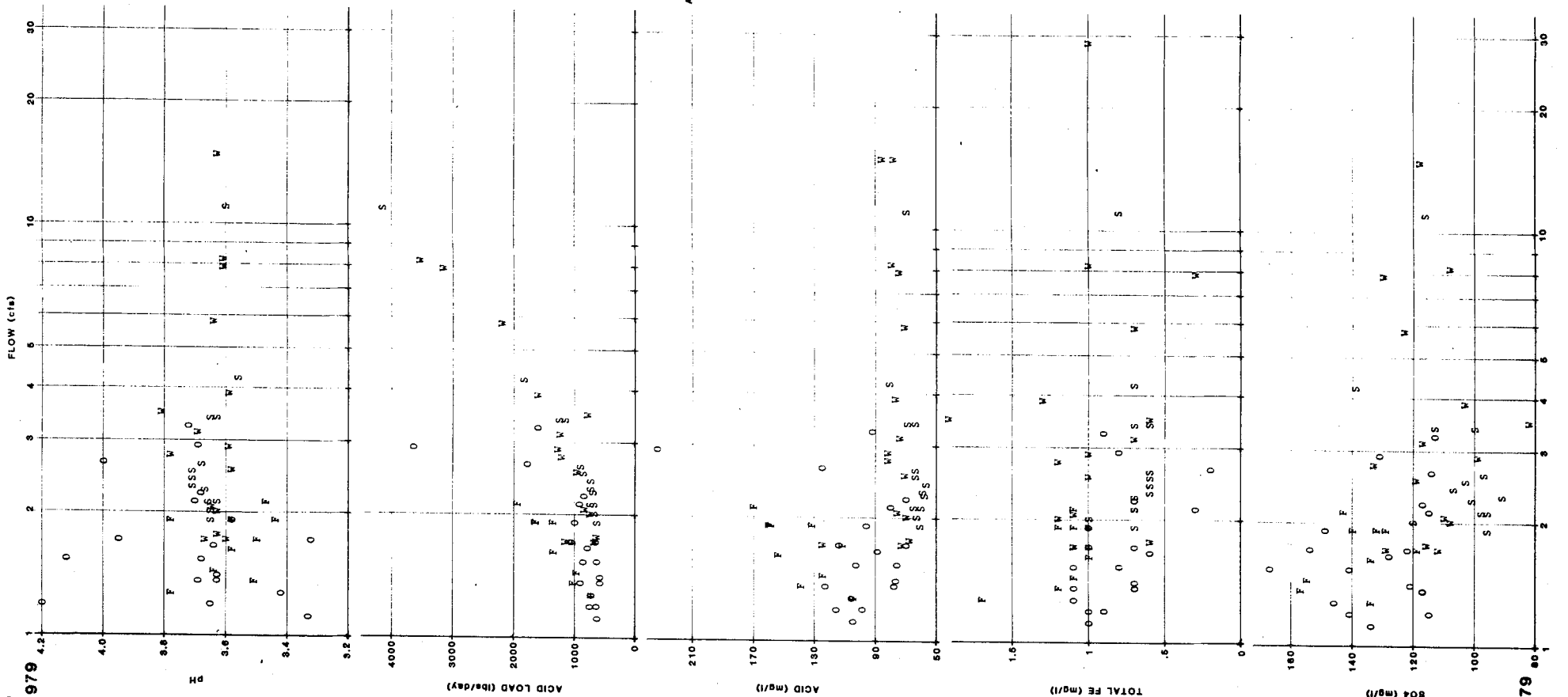
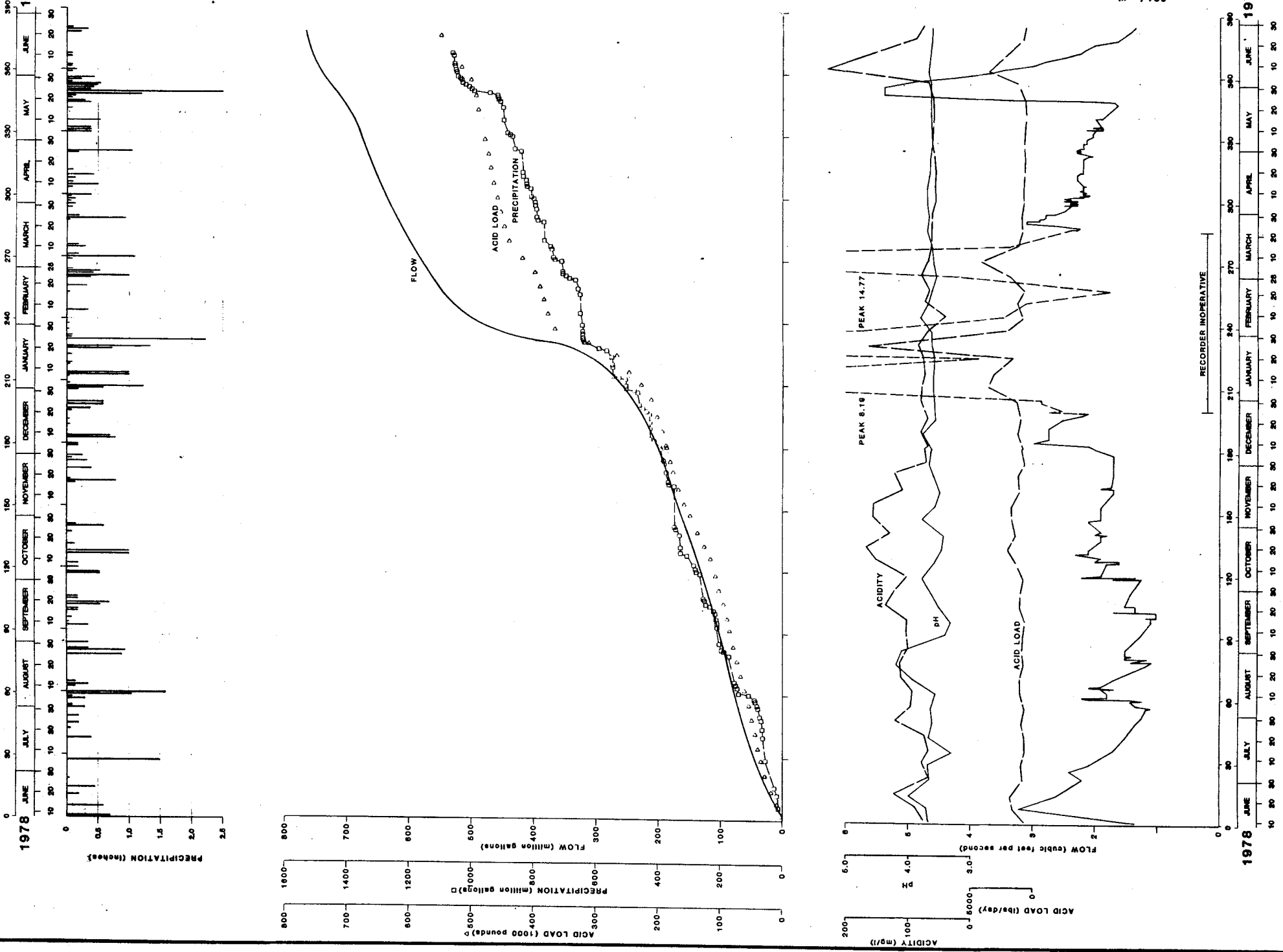
CATAWISSA CREEK
 PROJECT NO. SL 136-11
 SCHUYLKILL CO., PENNA.

GEO-TECHNICAL SERVICES
 CONSULTING ENGINEERS & GEOLOGISTS
 861 S. 18th STREET HARRISBURG, PENNA.

WATER QUALITY DATA

DATE: NOVEMBER, 1981

FIGURE 3



WATER QUALITY DATA --- CATAWISSA CREEK
SI-133-11

SAMPLING DATE	TIME FLOW cfs	ACID. mg/l	ALMA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lb./day
06/09/78	0	3.69	78	0.7	0.3	117	572
06/16/78	7	3.72	82	0.9	0.6	113	1602
06/23/78	13	3.72	82	0.2	0.1	114	1779
06/30/78	21	3.68	80	0.1	0.1	117	834
07/07/78	28	3.70	80	0.1	0.2	117	610
07/13/78	34	3.52	70	0.7	0.7	122	627
07/20/78	41	3.68	76	0.8	0.7	141	902
07/27/78	48	3.63	73	0.3	0.3	115	635
08/03/78	55	3.58	66	1.1	0.6	154	1058
08/10/78	62	3.95	114	1.0	0.6	141	744
08/17/78	66	4.20	116	1.0	0.6	157	1058
08/24/78	76	4.12	103	1.1	0.5	167	849
09/01/78	83	4.22	106	1.1	0.5	146	726
09/08/78	93	3.33	105	1.1	0.5	157	1058
09/14/78	97	3.51	139	1.2	0.5	155	970
09/21/78	104	3.64	125	1.1	0.5	157	1058
09/28/78	111	3.78	125	1.1	0.5	157	1058
10/05/78	118	3.47	120	1.0	0.6	134	719
10/12/78	123	3.47	120	1.0	0.6	134	719
10/19/78	132	3.44	120	1.0	0.6	134	719
10/26/78	147	3.78	100	1.0	0.6	134	719
11/03/78	159	3.58	139	1.0	0.6	134	719
11/10/78	168	3.60	125	1.0	0.6	134	719
11/17/78	173	3.67	76	1.1	0.6	134	719
11/24/78	180	3.65	76	1.1	0.6	134	719
12/01/78	181	3.63	70	1.2	0.9	108	535
12/08/78	181	3.63	70	1.2	0.9	108	535
12/15/78	195	3.58	71	1.2	0.9	133	755
12/22/78	203	3.59	82	1.0	0.8	139	819
01/05/79	210	3.61	80	1.0	0.8	108	535
01/11/79	216	3.61	75	1.3	0.5	103	516
01/18/79	224	3.59	77	1.0	0.7	118	587
01/25/79	224	3.57	76	1.0	0.7	118	587
02/01/79	237	3.64	71	1.1	0.7	162	788
02/08/79	244	3.48	81	1.0	0.7	162	788
02/15/79	251	3.11	74	1.0	0.6	116	1240
02/22/79	257	3.63	68	1.0	0.6	116	1240
03/01/79	260	3.60	70	1.0	0.6	116	1240
03/08/79	271	3.37	64	1.0	0.6	116	1240
03/15/79	276	3.71	64	1.0	0.6	116	1240
03/22/79	286	3.60	64	1.0	0.6	116	1240
03/29/79	293	3.60	64	1.0	0.6	116	1240
04/05/79	300	3.71	56	1.0	0.6	116	1240
04/12/79	314	3.25	56	1.0	0.6	116	1240
04/19/79	321	3.66	60	1.0	0.6	116	1240
04/26/79	328	3.10	65	1.0	0.6	116	1240
05/03/79	337	3.63	61	1.0	0.6	116	1240
05/10/79	346	3.63	61	1.0	0.6	116	1240
05/17/79	357	3.65	69	1.0	0.6	116	1240
06/01/79	363	3.65	233	1.0	0.6	116	1240
06/08/79	378	3.64	89	1.0	0.6	116	1240
06/15/79	384	3.64	89	1.0	0.6	116	1240
06/22/79	384	3.63	77	1.0	0.6	116	1240
06/28/79	384	3.63	83	1.0	0.6	116	1240
ANNUAL MEAN		3.66	83	0.67	0.54	121	1428

LEGEND:
 W - WINTER
 S - SPRING
 O - SUMMER
 F - FALL

SAMPLING PERIOD:
 JUNE 1978 - JUNE 1979
 DRAINAGE AREA: 1.17 sq. mi.

ONIEDA TUNNEL

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES

CATAWISSA CREEK
 PROJECT NO. 81 133-11
 SCHUYLKILL CO., PENNA.

GEO-TECHNICAL SERVICES
 CONSULTING ENGINEERS & GEOLOGISTS
 851 S. 19TH STREET HARRISBURG, PENNA.

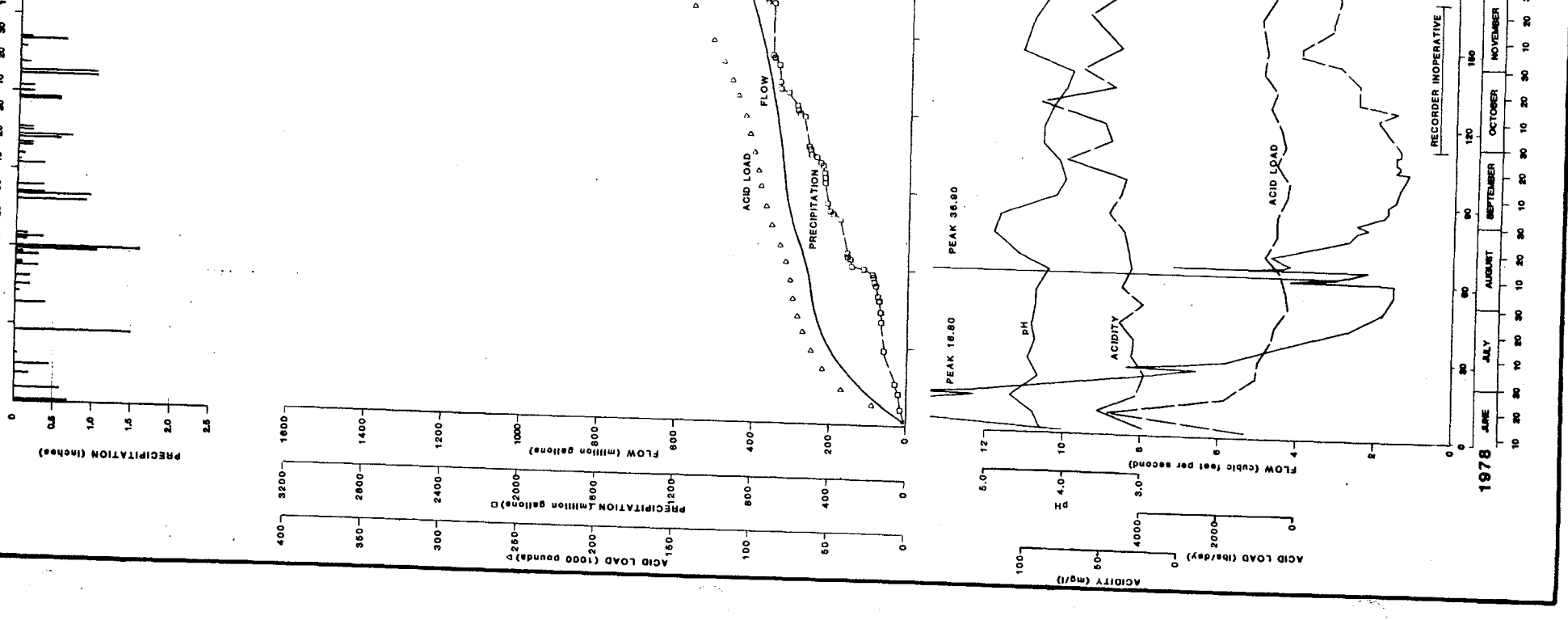
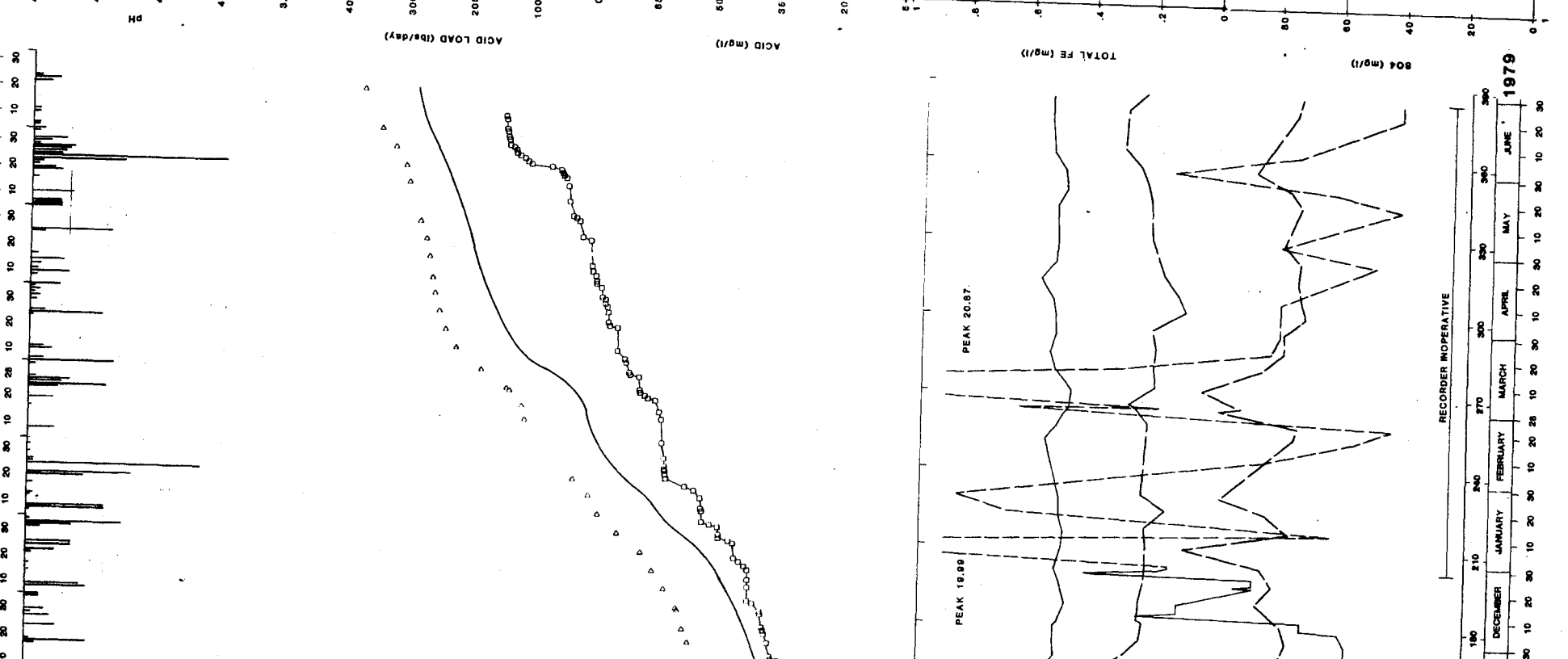
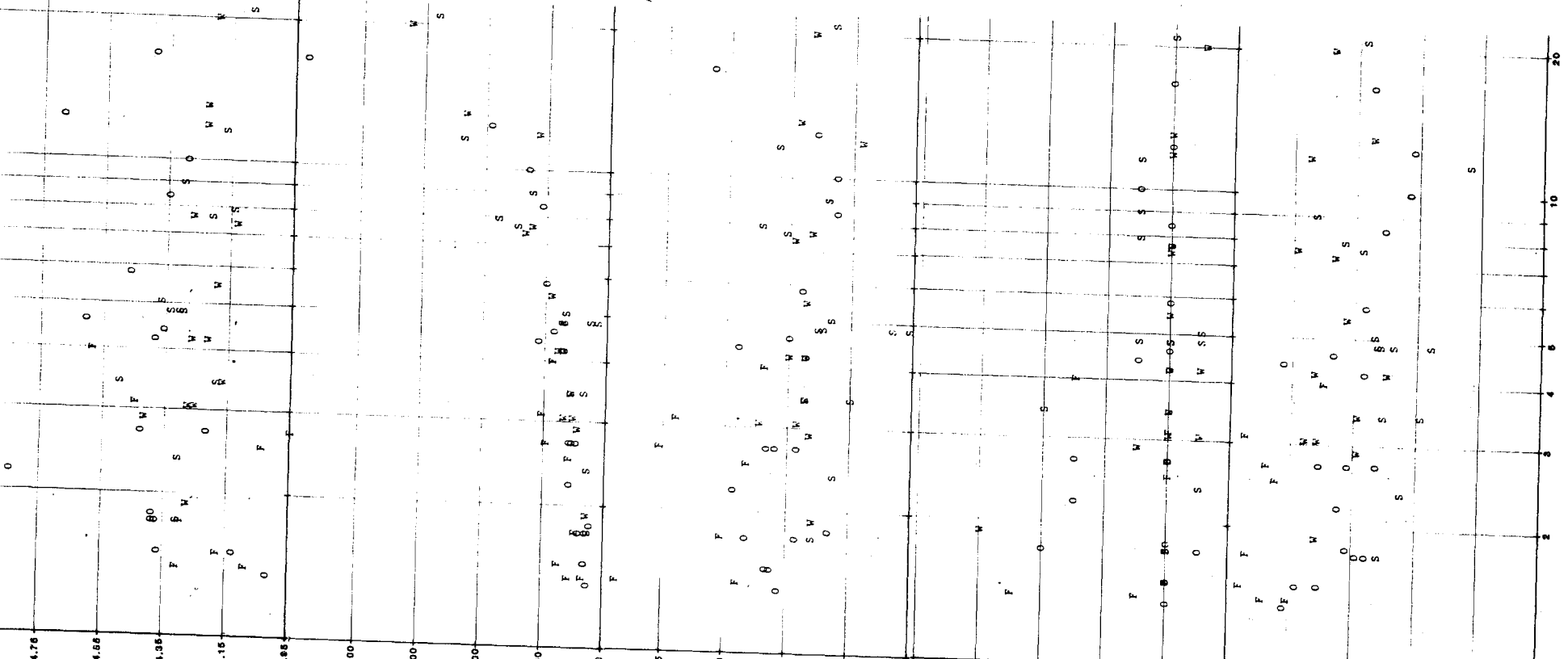
WATER QUALITY DATA

DATE: NOVEMBER, 1981

FIGURE 4

WATER QUALITY DATA --- CATAWISSA CREEK WLT #1

SAMPLING DATE	TIME	FLOW cfs	PH	ACID LBS./DAY	ALKA. MG/L	TOT. IRON MG/L	FE++ MG/L	SO4 MG/L	ACID LOAD LBS./DAY	IRON LOAD LBS./DAY
06/09/78	7	10.00	4.29	42.9	0	0.3	0.0	43	42.9	0
06/16/78	9	12.90	4.50	56.7	0	0.2	0.1	55	56.7	16
06/23/78	13	8.40	4.35	35.6	0	0.2	0.1	42	35.6	15
06/30/78	21	8.40	4.47	35.6	0	0.2	0.1	51	35.6	9
07/07/78	28	5.80	4.47	25.6	0	0.2	0.1	57	25.6	6
07/14/78	35	4.20	4.39	17.6	0	0.2	0.1	53	17.6	5
07/21/78	42	1.80	4.37	7.6	0	0.2	0.1	51	7.6	2
07/28/78	49	1.50	4.22	6.0	0	0.2	0.1	62	6.0	2
08/05/78	56	2.70	4.22	10.8	0	0.2	0.1	71	10.8	2
08/12/78	63	4.60	4.61	18.7	4	0.2	0.1	85	18.7	3
08/19/78	70	2.20	4.82	4.8	4	0.2	0.1	71	4.8	3
08/26/78	77	2.20	4.82	4.8	4	0.2	0.1	85	4.8	3
09/02/78	84	1.50	4.13	4.5	0	0.2	0.1	82	4.5	2
09/09/78	91	1.50	4.02	4.5	0	0.2	0.1	82	4.5	2
09/16/78	98	1.40	4.09	4.2	0	0.2	0.1	82	4.2	2
09/23/78	105	1.70	4.31	5.1	0	0.2	0.1	81	5.1	2
09/30/78	112	1.50	4.18	4.5	0	0.2	0.1	84	4.5	2
10/07/78	119	2.50	4.04	7.5	0	0.2	0.1	96	7.5	3
10/14/78	126	3.20	4.04	9.6	0	0.2	0.1	85	9.6	3
10/21/78	133	3.00	4.28	9.0	0	0.2	0.1	94	9.0	3
10/28/78	140	3.10	4.28	9.3	0	0.2	0.1	96	9.3	3
11/04/78	147	3.04	4.22	9.1	0	0.2	0.1	85	9.1	3
11/11/78	154	4.28	4.22	12.7	0	0.2	0.1	95	12.7	3
11/18/78	161	4.28	4.22	12.7	0	0.2	0.1	76	12.7	3
11/25/78	168	3.04	4.22	9.1	0	0.2	0.1	76	9.1	3
12/02/78	175	3.04	4.22	9.1	0	0.2	0.1	76	9.1	3
12/09/78	182	4.18	4.22	12.7	0	0.2	0.1	76	12.7	3
12/16/78	189	4.18	4.22	12.7	0	0.2	0.1	76	12.7	3
12/23/78	196	4.18	4.22	12.7	0	0.2	0.1	76	12.7	3
12/30/78	203	4.20	4.20	12.7	0	0.2	0.1	76	12.7	3
01/06/79	210	3.41	4.17	11.6	0	0.2	0.1	79	11.6	3
01/13/79	217	3.41	4.17	11.6	0	0.2	0.1	79	11.6	3
01/20/79	224	3.41	4.17	11.6	0	0.2	0.1	79	11.6	3
01/27/79	231	2.87	4.42	8.5	0	0.2	0.1	75	8.5	3
02/03/79	238	2.87	4.42	8.5	0	0.2	0.1	75	8.5	3
02/10/79	245	1.80	4.28	5.4	0	0.2	0.1	55	5.4	2
02/17/79	252	1.80	4.28	5.4	0	0.2	0.1	55	5.4	2
02/24/79	259	1.52	4.17	4.6	0	0.2	0.1	59	4.6	2
03/02/79	266	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
03/09/79	273	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
03/16/79	280	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
03/23/79	287	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
03/30/79	294	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
04/06/79	301	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
04/13/79	308	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
04/20/79	315	2.87	4.06	8.5	0	0.2	0.1	64	8.5	2
04/27/79	322	2.36	4.31	6.8	0	0.2	0.1	53	6.8	2
05/04/79	329	2.36	4.31	6.8	0	0.2	0.1	53	6.8	2
05/11/79	336	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
05/18/79	343	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
05/25/79	350	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
06/01/79	357	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
06/08/79	364	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
06/15/79	371	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
06/22/79	378	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
06/29/79	385	4.81	4.31	14.4	0	0.2	0.1	53	14.4	2
ANNUAL MEAN		6.87	4.31	38	0.17	0.26	0.17	64	38	6.8



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

CATAWISSA CREEK
PROJECT NO. 81 136-11
SCHUYLKILL CO., PENNA.

GEO-TECHNICAL SERVICES
CONSULTING ENGINEERS & GEOLOGISTS
951 S. 18TH STREET HARRISBURG, PENNA.

WATER QUALITY DATA

DATE _____

WLT #1

SAMPLING PERIOD:
JUNE 1978 - JUNE 1979
DRAINAGE AREA: 3.07 sq. mi.

LEGEND:
W - WINTER
S - SPRING
O - SUMMER
F - FALL

SAMPLING DATE	TIME	FLOW	PH	ACID	ALKA.	TOT. IRON	FEAS. IRON	SO ₄	ACID LOAD	IRON LOAD
DATE	days	cfs		lbs/day	mg/l	mg/l	mg/l	mg/l	lbs/day	lbs/day
06/08/78	0	0.66	3.87	32	0	0.5	0.3	66	185	2
06/16/78	8	1.24	3.81	57	0	0.5	0.5	70	381	3
06/22/78	14	0.70	4.06	65	0	0.5	0.6	77	381	3
06/28/78	20	0.76	3.77	58	0	0.5	0.5	86	233	3
07/05/78	28	1.24	3.82	68	0	0.6	0.5	83	454	4
07/11/78	34	0.72	3.79	61	0	0.3	0.4	83	380	3
07/18/78	40	0.66	3.72	42	0	0.5	0.2	80	237	2
08/02/78	55	0.62	3.72	54	0	0.6	0.2	88	180	2
08/09/78	62	0.77	3.68	74	0	0.7	0.3	127	307	3
08/13/78	66	0.70	3.34	82	0	0.6	0.2	100	313	3
08/23/78	76	0.70	4.28	113	0	0.7	0.3	126	317	3
09/07/78	91	0.70	3.59	92	0	0.7	0.3	167	345	3
09/13/78	97	0.62	3.45	70	0	0.9	0.3	97	244	2
09/27/78	111	0.62	3.72	111	0	0.6	0.4	108	370	3
10/04/78	118	0.62	3.87	113	0	0.6	0.4	108	370	3
10/12/78	126	0.62	3.80	114	0	0.6	0.4	102	364	3
10/13/78	127	0.62	3.80	91	0	0.7	0.4	102	364	3
10/15/78	129	0.83	3.52	60	0	0.5	0.5	84	413	4
10/25/78	137	0.83	3.52	60	0	0.5	0.5	100	311	3
11/02/78	147	0.80	3.99	80	0	0.5	0.2	110	382	3
11/09/78	154	0.85	3.72	83	0	0.5	0.2	110	382	3
11/15/78	160	0.77	3.60	92	0	0.5	0.4	110	382	3
11/22/78	167	0.77	3.68	89	0	0.5	0.4	110	382	3
11/30/78	175	0.85	3.88	92	0	0.5	0.4	110	382	3
12/06/78	181	1.02	3.86	66	0	0.3	0.3	66	374	3
12/13/78	188	1.56	3.97	45	0	0.4	0.2	74	377	3
12/20/78	195	1.24	3.83	49	0	0.4	0.2	74	377	3
12/28/78	203	3.75	3.88	22	0	0.4	0.3	74	377	3
01/05/79	210	3.05	3.88	22	0	0.4	0.3	74	377	3
01/10/79	216	3.05	3.82	47	0	0.6	0.5	78	468	4
01/18/79	224	1.91	3.82	47	0	0.6	0.5	78	468	4
01/23/79	229	3.32	3.80	55	0	0.5	0.5	63	740	6
01/31/79	237	3.05	3.28	45	0	0.5	0.5	74	431	4
02/07/79	244	1.28	3.75	77	0	0.9	0.9	81	490	4
02/13/79	250	1.06	3.82	49	0	0.9	0.9	50	250	2
02/23/79	260	1.06	3.82	49	0	0.9	0.9	50	250	2
03/01/79	266	2.87	3.84	42	0	0.4	0.4	62	494	4
03/08/79	273	1.91	3.88	48	0	0.4	0.4	108	827	8
03/15/79	280	1.91	3.88	48	0	0.4	0.4	108	827	8
03/21/79	286	2.92	3.81	50	0	0.3	0.2	63	277	2
03/28/79	293	1.98	3.81	50	0	0.3	0.2	63	277	2
04/04/79	300	1.76	3.90	55	0	0.5	0.5	74	431	4
04/11/79	307	1.84	3.92	46	0	0.5	0.5	74	431	4
04/18/79	314	1.62	3.87	40	0	0.6	0.5	74	431	4
04/25/79	321	1.62	3.87	40	0	0.6	0.5	74	431	4
05/02/79	328	1.62	3.87	40	0	0.6	0.5	74	431	4
05/17/79	343	1.62	3.87	40	0	0.6	0.5	74	431	4
05/23/79	349	1.39	3.82	39	0	0.4	0.2	51	422	4
06/06/79	362	2.92	3.87	32	0	0.7	0.7	78	592	5
06/13/79	369	1.24	3.87	32	0	0.7	0.7	78	592	5
06/21/79	378	1.24	3.87	32	0	0.7	0.7	78	592	5
06/27/79	384	1.10	3.76	83	0	0.5	0.3	105	391	3
ANNUAL MEAN		1.49	3.83	65	0	0.54	0.35	84	457	4.2

LEGEND:
W - WINTER
S - SPRING
O - SUMMER
F - FALL

SAMPLING PERIOD:
JUNE 1978 - JUNE 1979
DRAINAGE AREA: 1.00 sq. mi.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

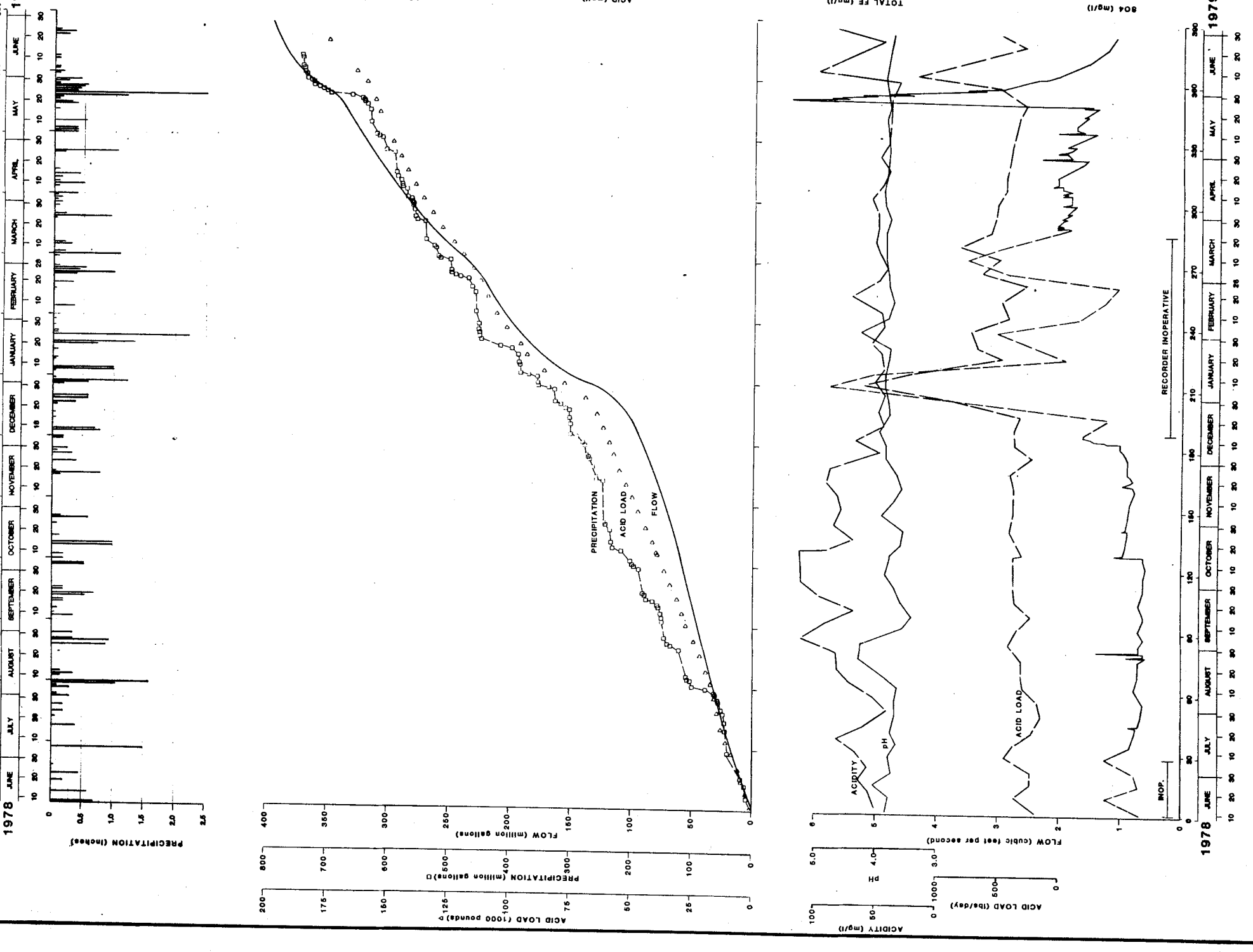
CATAWISSA CREEK
PROJECT NO. 81 135-11
SCHUYLKILL CO., PENNA.

GEO-TECHNICAL SERVICES
CONSULTING ENGINEERS & GEOLOGISTS
661 S. 19th STREET HARRISBURG, PENNA.

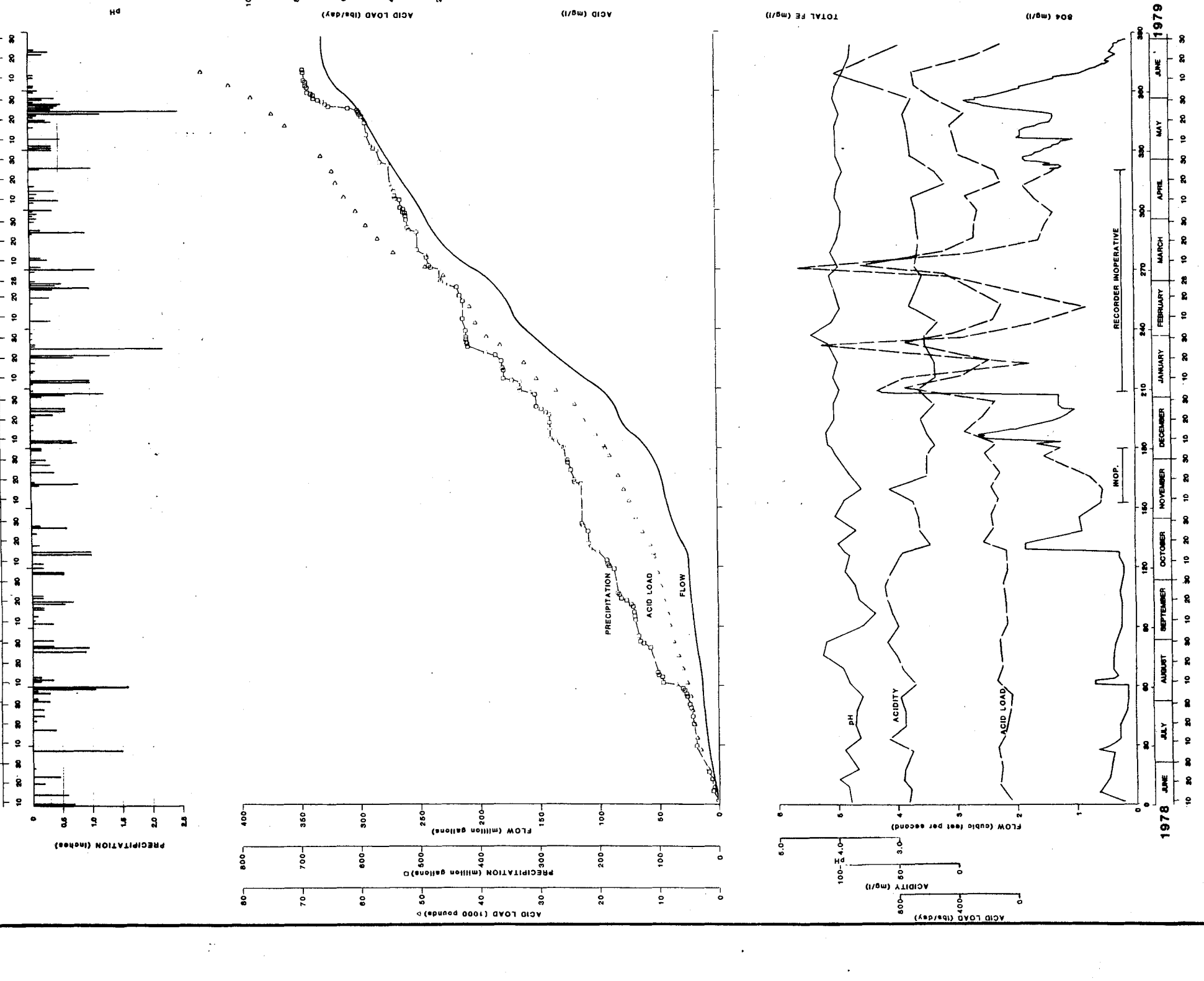
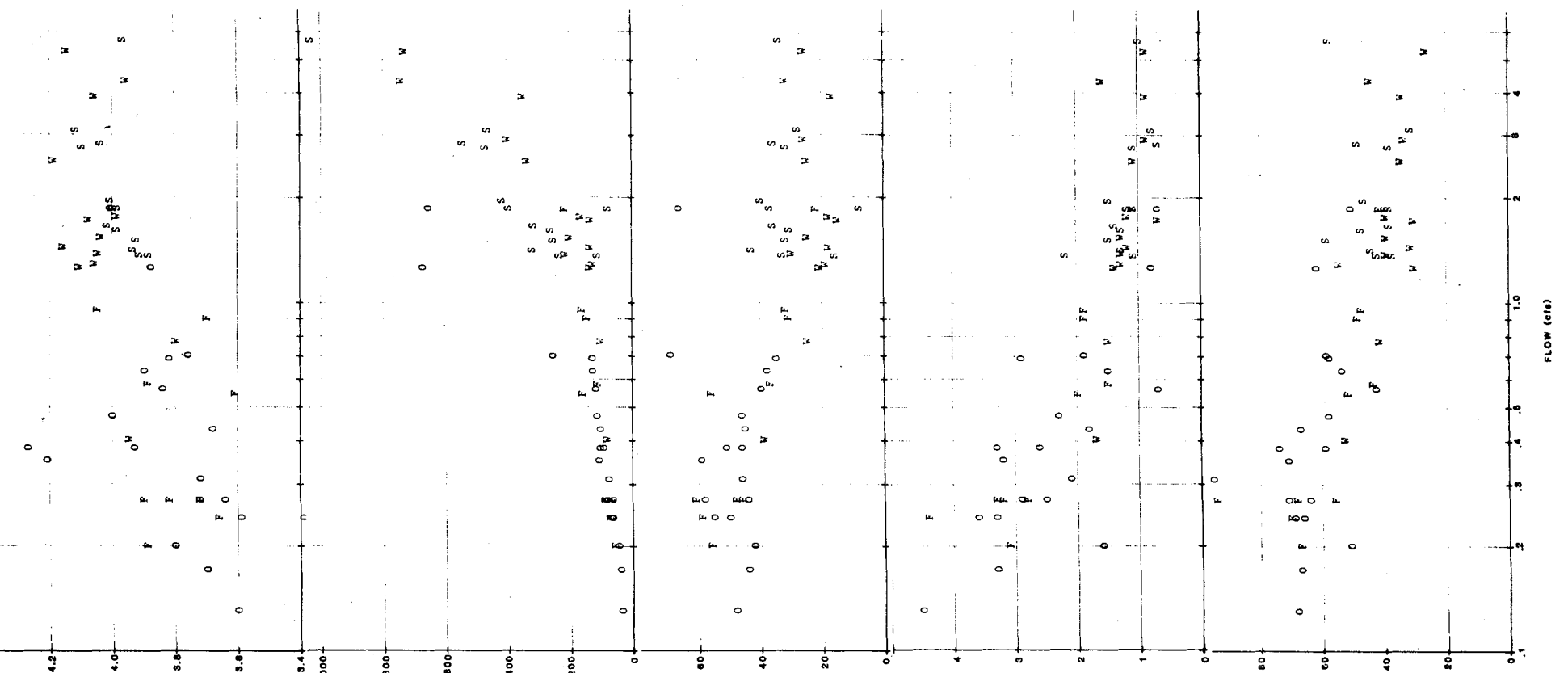
WATER QUALITY DATA

DATE: NOVEMBER, 1981

WLT #2



SAMPLING DATE	TIME	PH	ACID	ALKA.	TOT. IRON	FE ⁺⁺	504	ACID	IRON
DATE	days	ME/L	ME/L	ME/L	ME/L	ME/L	ME/L	LOAD	LOAD
								lbs./day	lbs./day
06/08/78	0	3.80	42	0	1.6	0.8	51	45	2
06/16/78	8	3.84	40	0	0.7	0.7	43	121	6
06/20/78	12	4.00	46	0	2.3	2.1	58	117	6
06/27/78	19	3.90	38	0	1.5	1.5	54	139	6
07/05/78	27	3.90	38	0	1.5	1.5	54	139	6
07/11/78	33	3.64	58	0	2.5	2.4	71	84	4
07/18/78	40	3.72	44	0	2.9	2.4	64	64	4
07/25/78	47	3.70	44	0	2.9	2.4	64	64	4
08/01/78	54	3.80	35	0	2.7	2.6	67	40	3
08/08/78	61	3.93	35	0	2.7	2.6	67	40	3
08/15/78	68	3.93	46	0	2.6	2.6	59	130	6
08/22/78	75	4.27	51	0	3.3	3.2	74	104	6
08/29/78	82	4.21	59	0	3.3	3.2	74	104	6
09/05/78	90	3.86	59	0	3.0	2.9	69	71	4
09/12/78	97	3.56	59	0	4.4	4.4	89	76	5
09/19/78	103	3.72	61	0	3.3	3.3	69	76	5
09/26/78	110	3.72	32	0	3.3	3.3	69	76	5
10/03/78	117	3.99	36	0	3.1	3.0	67	60	5
10/10/78	124	3.82	37	0	3.2	3.2	68	60	5
10/17/78	131	3.86	46	0	3.2	3.2	68	60	5
10/24/78	138	3.86	46	0	3.2	3.2	68	60	5
10/31/78	145	4.05	32	0	1.9	1.9	49	219	11
11/07/78	152	3.82	32	0	1.9	1.9	49	219	11
11/14/78	159	3.82	32	0	1.9	1.9	49	219	11
11/21/78	166	3.80	25	0	1.7	1.7	42	150	10
12/01/78	176	4.04	25	0	1.5	1.5	42	150	10
12/05/78	180	4.11	21	0	1.3	1.3	40	206	11
12/08/78	183	4.11	21	0	1.3	1.3	40	206	11
12/15/78	190	4.18	18	0	1.2	1.2	31	141	9
12/22/78	197	4.06	30	0	1.7	1.7	32	139	9
12/29/78	204	4.06	19	0	1.3	1.3	20	10	0
01/05/79	209	4.32	32	0	1.6	1.6	22	10	0
01/12/79	216	3.88	17	0	0.9	0.9	11	19	1
01/19/79	223	3.55	26	4	0.6	0.6	11	19	1
01/26/79	230	4.45	26	4	0.6	0.6	11	19	1
02/02/79	237	4.08	15	0	0.7	0.7	11	19	1
02/09/79	244	4.08	15	0	0.7	0.7	11	19	1
02/16/79	251	4.00	39	0	1.7	1.7	17	10	0
02/23/79	258	3.95	39	0	1.7	1.7	17	10	0
03/01/79	265	3.87	38	0	1.6	1.6	17	10	0
03/08/79	272	4.10	32	0	1.1	1.1	10	11	0
03/15/79	279	4.10	32	0	1.1	1.1	10	11	0
03/22/79	286	3.99	31	0	1.3	1.3	12	12	0
03/29/79	293	3.50	33	0	1.2	1.2	12	12	0
04/05/79	300	3.82	32	0	1.2	1.2	12	12	0
04/12/79	307	3.95	38	0	1.2	1.2	12	12	0
04/19/79	314	3.99	38	0	1.2	1.2	12	12	0
04/26/79	321	3.89	16	0	1.1	1.1	11	11	0
05/03/79	328	4.00	37	0	1.1	1.1	11	11	0
05/10/79	335	4.01	40	0	1.5	1.5	16	16	0
05/17/79	342	3.97	40	0	1.5	1.5	16	16	0
05/24/79	349	4.01	36	0	1.5	1.5	16	16	0
05/31/79	356	4.04	36	0	1.5	1.5	16	16	0
06/07/79	363	3.88	100	0	0.7	0.6	51	51	2
06/14/79	370	3.88	100	0	0.8	0.8	51	51	2
06/21/79	377	3.76	46	0	1.9	1.5	55	260	7
06/28/79	384	3.72	46	0	1.9	1.5	55	260	7
ANNUAL MEAN		3.82	39	7.1	1.8	1.6	62	299	8.5



LEGEND:
 W - WINTER
 S - SPRING
 O - SUMMER
 F - FALL

SAMPLING PERIOD:
 JUNE 1978 - JUNE 1979
 DRAINAGE AREA: .648 sq. mi.

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL RESOURCES

CATAWISSA CREEK
 PROJECT NO. 81 138-11
 SCHUYLKILL CO., PENNA.

GEO-TECHNICAL SERVICES
 CONSULTING ENGINEERS & GEOLOGISTS
 861 S. 19TH STREET HARRISBURG, PENNA.

WATER QUALITY DATA

DATE: NOVEMBER, 1981
 FIGURE 7

WATER QUALITY DATA --- CATAWISSA CREEK
 SL-135-11
 CC-1

SAMPLING DATE	TIME days	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l
06/08/78	0	3.82	110	0	1.5	1.5	183
06/16/78	8	3.91	106	0	0.8	0.8	164
06/22/78	14	4.21	81	0	1.1	1.1	136
06/25/78	17	3.94	72	0	1.1	1.1	113
07/05/78	27	3.99	163	0	1.0	1.0	223
07/11/78	33	4.04	62	0	2.8	1.9	152
07/18/78	40	3.92	79	0	2.4	2.1	170
07/25/78	47	3.86	85	0	2.5	2.1	191
08/01/78	54	3.89	90	0	2.0	1.0	197
08/08/78	61	4.08	85	0	0.8	0.7	189
08/15/78	68	4.22	100	0	1.0	1.0	220
08/22/78	75	4.69	112	4	3.8	3.1	208
08/29/78	82	4.44	104	0	1.2	0.7	181
09/06/78	90	3.76	109	0	2.8	2.7	220
09/12/78	96	3.79	112	0	1.0	0.9	193
09/19/78	103	4.39	47	0	0.5	0.4	81
09/26/78	110	4.12	116	0	1.0	1.0	239
10/03/78	117	4.18	138	0	0.6	0.6	211
10/11/78	125	4.15	92	0	0.6	0.6	202
10/13/78	127	3.98	100	0	0.8	0.8	218
10/17/78	131	4.19	81	0	0.3	0.3	106
10/24/78	138	3.88	152	0	0.5	0.4	217
10/31/78	145	4.11	142	0	0.4	0.3	133
11/08/78	153	3.98	145	0	0.6	0.4	153
11/14/78	159	3.87	144	0	0.7	0.6	228
11/21/78	166	3.89	75	0	0.4	0.3	171
11/28/78	173	4.15	85	0	0.6	0.5	158
12/05/78	180	4.21	89	0	0.5	0.5	154
12/12/78	187	4.33	59	0	0.6	0.3	122
12/19/78	194	4.22	84	0	0.6	0.3	142
12/27/78	202	4.21	95	0	0.5	0.3	194
01/03/79	209	4.29	53	0	0.4	0.2	114
01/09/79	215	4.14	55	0	0.3	0.3	107
01/17/79	223	4.26	72	0	0.5	0.5	154
01/26/79	232	4.29	49	0	0.3	0.2	94
01/31/79	237	4.48	74	0	0.4	0.3	121
02/06/79	243	4.28	64	0	0.5	0.5	125
02/14/79	251	4.19	87	0	1.3	1.1	119
02/22/79	259	4.17	88	0	0.6	0.4	149
02/27/79	264	4.24	54	0	0.5	0.4	89
03/06/79	271	4.28	38	0	0.5	0.5	76
03/13/79	278	4.30	63	0	0.4	0.4	103
03/20/79	285	4.19	64	0	0.6	0.4	134
03/27/79	292	4.18	70	0	0.5	0.5	149
04/03/79	299	4.15	82	0	0.5	0.5	155
04/10/79	306	4.20	63	0	1.6	1.4	116
04/17/79	313	4.16	65	0	0.5	0.4	125
04/24/79	320	4.19	61	0	0.1	0.6	128
05/01/79	327	4.20	70	0	0.5	0.5	136
05/16/79	342	4.21	68	0	0.4	0.3	129
05/22/79	348	4.15	66	0	0.8	0.6	135
05/30/79	356	4.14	69	0	0.4	0.2	141
06/05/79	362	4.20	110	0	1.0	0.6	182
06/12/79	369	4.03	198	0	1.2	1.0	217
06/20/79	377	4.99	52	6	1.6	1.4	231
06/26/79	383	4.13	133	0	0.5	0.3	249

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
CC-2

SAMPLING DATE	TIME da s	FLOW cf s	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./da s	IRON LOAD lbs./da s
06/08/78	0		4.28	22	0	1.5	1.5	58		
06/16/78	8		4.42	20	0	0.7	0.6	29		
06/25/78	17	0.8	4.28	18	0	0.7	0.5	31	82	3
07/05/78	27	1.3	4.42	17	0	0.8	0.7	30	123	6
07/11/78	33	0.4	4.17	15	0	1.3	1.3	50	36	3
07/18/78	40	0.3	4.35	17	0	3.3	2.6	34	28	5
07/25/78	47	0.2	4.31	17	0	1.5	1.5	28	19	2
08/01/78	54		4.40	12	0	1.3	1.6	23	4	0
08/08/78	61	2.2	4.35	14	0	1.0	0.7	38	170	12
08/15/78	68	0.8	4.57	21	0	1.4	0.8	31	102	7
08/22/78	75		5.32	11	6	6.4	6.1	25		
08/29/78	82	0.5	4.10	12	0	1.5	0.7	32	36	5
09/07/78	91		4.32	11	0	13.8	4.9	27		
09/12/78	96		4.31	12	0	7.1	3.4	27		
09/19/78	103	2.6	4.42	13	0	0.5	0.3	37	186	7
09/26/78	110		4.50	14	0	1.2	1.2	79		
10/03/78	117		4.49	21	0	1.7	1.5	28		
10/11/78	125		4.49	21	0	1.8	1.2	94		
10/17/78	131	0.8	4.25	18	0	0.6	0.6	46	78	3
10/24/78	138	0.4	4.01	19	0			46	45	0
10/31/78	145	0.7	4.39	16	0	22.5	5.2	38	62	87
11/08/78	153		4.22	18	0	10.9	3.0	45		
11/14/78	159		3.94	35	0	23.5	11.8	46		
11/21/78	166		4.09	17	0	4.4	1.3	50		
12/01/78	176		4.32	16	0	22.8	16.4	47		
12/05/78	180		4.35	17	0	16.6	6.8	34		
12/12/78	187		4.45	20	0	0.4	0.2	40		
12/19/78	194		4.42	18	0	0.5	0.3	35		
12/27/78	202		4.42	18	0	3.2	1.1	55		
01/03/79	209		4.30	20	0	39.0	7.1	41		
01/09/79	215		4.47	16	0	26.5	18.3	45		
01/17/79	223		4.66	15	2	22.8	22.0	25		
01/26/79	232	4.4	4.74	12	8	0.3	0.3	23	291	7
01/30/79	236	2.4	5.16	14	6	0.3	0.2	20	187	4
02/06/79	243		4.59	14	2	18.0	7.0	27		
02/14/79	251		4.78	15	4	0.2	0.2	30		
03/02/79	267	4.6	4.65	7	3	0.5	0.4	25	175	12
03/06/79	271	15.8	4.65	18	2	2.7	2.1	24	1538	231
03/13/79	278	7.7	4.80	22	6	0.5	0.4	23	923	21
03/20/79	285	3.0	4.70	13	1	0.6	0.6	24	214	10
03/27/79	292	1.8	4.50	22	0	0.9	0.8	43	218	9
04/03/79	299	1.8	4.49	21	0	1.2	1.0	33	209	12
04/10/79	306	2.0	4.58	17	8	1.8	1.3	91	192	20
04/17/79	313	2.7	4.50	16	0	1.3	1.1	31	234	19
04/24/79	320	0.3	4.50	15	0	1.1	0.8	52	30	2
05/01/79	327	1.8	4.44	17	0	0.7	0.6	35	167	7
05/16/79	342		4.36	15	0	3.6	2.8	48		
05/22/79	348		4.39	18	0	3.3	2.5	53		
05/30/79	356		4.66	15	3	0.2	0.1	42		
06/05/79	362	5.3	4.67	25	5	0.4	0.2	35	720	12
06/12/79	369		4.60	27	2	0.4	0.3	60		
06/21/79	378		4.51	25	2	0.8	0.5	69		
06/26/79	383		4.40	16	0	14.3	2.1	72		

WATER QUALITY DATA -- CATAWISSA CREEK
SL-135-11
CC-3

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0		4.35	16	0	0.4	0.2	39		
06/16/78	8		4.50	15	3	1.5	1.1	19		
06/22/78	14	1.1	4.50	22	0	0.6	0.5	33	137	4
06/25/78	17	1.6	4.35	15	0	0.4	0.3	35	135	4
07/05/78	27	1.6	4.45	19	0	0.4	0.4	27	167	4
07/11/78	33	0.8	4.27	15	0	0.4	0.3	39	66	2
07/18/78	40	0.6	4.40	15	0	0.3	0.3	34	55	1
07/25/78	47	0.2	4.45	13	0	0.5	0.3	25	14	1
08/01/78	54	0.6	4.53	12	2	0.4	0.3	23	40	1
08/08/78	61	3.2	4.41	14	0	0.7	0.5	27	242	12
08/15/78	68	1.2	4.60	15	0	0.7	0.5	31	101	5
08/22/78	75		5.11	17	4	0.7	0.4	21		
08/29/78	82	1.0	5.10	15	14	1.5	0.7	32	83	8
09/06/78	90	0.2	4.41	12	0	0.8	0.5	27	18	1
09/12/78	96	0.2	4.20	12	0	0.3	0.2	23	17	0
09/19/78	103	2.6	4.50	12	0	7.5	1.7	29	172	108
09/26/78	110	0.3	4.55	16	1	0.9	0.9	31	29	2
10/03/78	117	0.3	4.62	14	2	0.4	0.3	28	24	1
10/11/78	125	0.3	4.52	19	0	0.3	0.3	32	36	1
10/17/78	131	3.5	4.22	18	0	0.4	0.4	37	342	8
10/24/78	138	1.7	4.09	16	0	0.4	0.2	46	148	4
10/31/78	145	3.4	4.42	21	0	0.4	0.2	37	392	7
11/08/78	153	1.1	4.21	19	0	0.4	0.2	38	114	2
11/14/78	159	0.8	3.97	29	0	0.5	0.3	50	136	2
11/21/78	166	0.9	4.14	19	0	0.4	0.2	43	101	2
12/01/78	176	3.5	4.41	15	0	0.8	0.7	38	285	15
12/05/78	180	1.6	4.41	16	0	0.4	0.3	32	144	4
12/12/78	187	2.9	4.48	17	0	0.5	0.3	39	270	8
12/19/78	194	1.9	4.47	16	0	0.3	0.1	28	164	3
12/27/78	202	1.6	4.48	17	0	0.5	0.3	43	153	5
01/03/79	209		4.49	21	0	0.4	0.2	39		
01/09/79	215	11.0	4.57	14	2	0.2	0.2	39	834	12
01/17/79	223	9.7	4.70	14	2	0.1	0.1	24	737	5
01/26/79	232	30.1	4.73	13	8	3.7	3.4	24	2109	600
01/30/79	236	20.6	5.32	14	2	0.2	0.2	23	1561	22
02/06/79	243		4.56	15	3	0.2	0.2	24		
02/14/79	251		4.81	14	4	0.3	0.3	23		
03/02/79	267	7.0	4.70	15	2	0.3	0.3	33	570	11
03/06/79	271		4.64	19	2	1.3	1.0	27		
03/13/79	278	9.0	4.78	18	5	0.5	0.4	21	876	24
03/20/79	285	3.4	4.71	13	1	0.4	0.4	32	241	7
03/27/79	292	2.9	4.52	19	2	0.6	0.6	47	303	10
04/03/79	299	3.0	4.52	17	1	0.7	0.6	31	277	11
04/10/79	306	8.7	4.61	16	15	0.5	0.5	31	756	24
04/17/79	313	4.0	4.57	18	4	0.3	0.3	59	389	6
04/24/79	320	1.8	4.52	20	2	0.4	0.3	41	200	4
05/01/79	327	3.0	4.46	16	0	0.5	0.3	37	265	8
05/16/79	342		4.44	17	0	0.3	0.1	39		
05/22/79	348	2.9	4.38	21	0	0.4	0.2	42	338	6
05/30/79	356		4.65	16	2	0.2	0.1	43		
06/05/79	362	6.5	4.60	43	6	0.2	0.2	42	1518	7
06/12/79	369		4.59	22	2	0.4	0.3	62		
06/21/79	378	0.3	4.50	27	0	3.9	3.6	58	47	7
06/26/79	383	0.4	4.50	13	0	0.2	0.1	58	29	0

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
WLT-3

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0	0.20	3.80	42	0	1.6	0.8	51	45	2
06/16/78	8	0.56	3.84	40	0	0.7	0.7	43	121	2
06/20/78	12	0.47	4.00	46	0	2.3	2.1	58	117	6
06/25/78	17	0.43	3.68	45	0	1.8	1.3	67	104	4
07/05/78	27	0.63	3.90	38	0	1.5	1.5	54	129	5
07/11/78	33	0.27	3.64	58	0	2.5	2.4	71	84	4
07/18/78	40	0.27	3.72	44	0	2.9	2.4	64	64	4
07/25/78	47	0.17	3.70	44	0	3.3	2.6	67	40	3
08/01/78	54	0.13	3.60	48	0	4.5	2.9	68	34	3
08/08/78	61	0.69	3.82	35	0	2.9	2.7	58	130	11
08/15/78	68	0.38	3.93	46	0	2.6	2.0	59	94	5
08/22/78	75	0.38	4.27	51	0	3.3	2.8	74	104	7
08/29/78	82	0.35	4.21	59	0	3.2	2.5	71	111	6
09/06/78	90	0.24	3.59	50	0	3.3	2.8	66	65	4
09/12/78	96	0.24	3.39	55	0	3.6	3.0	69	71	5
09/19/78	103	0.24	3.66	59	0	4.4	2.5	70	76	6
09/26/78	110	0.27	3.72	61	0	3.3	3.3	94	89	5
10/03/78	117	0.20	3.89	56	0	3.1	3.0	67	60	3
10/11/78	125	0.27	3.82	48	0	2.8	2.7	68	70	4
10/13/78	127	0.27	3.90	46	0	3.2	2.9	56	67	5
10/17/78	131	1.85	4.00	22	0	1.1	1.1	42	219	11
10/24/78	138	0.90	3.70	31	0	1.9	1.9	49	150	9
10/31/78	145	0.95	4.05	32	0	1.9	1.7	48	164	10
11/08/78	153	0.58	3.89	37	0	1.5	1.3	44	116	5
11/14/78	159	0.54	3.61	56	0	2.0	1.7	52	163	6
11/21/78	166	0.77	3.80	25	0	1.5	1.3	42	104	6
12/01/78	176	1.53	4.04	25	0	1.3	1.1	40	206	11
12/05/78	180	1.25	4.11	21	0	1.4	0.8	31	141	9
12/06/78	181	1.43	4.16	18	0	1.2	0.0	32	139	9
12/12/78	187	2.53	4.19	25	0	1.1	0.7	35	341	15
12/19/78	194	1.37	4.05	30	0	1.3	0.8	40	222	10
12/27/78	202	1.28	4.06	19	0	1.3	0.9	55	131	9
01/03/79	209	4.32	3.96	32	0	1.6	0.8	45	745	37
01/09/79	215	3.88	4.06	17	0	0.9	0.9	35	356	19
01/17/79	223	1.75	3.99	18	0	1.2	1.0	40	170	11
01/26/79	232	5.25	4.15	26	4	0.9	0.8	27	736	25
01/30/79	236	2.90	4.43	26	0	0.9	0.8	34	406	14
02/06/79	243	1.71	4.08	15	0	0.7	0.7	31	138	6
02/14/79	251	0.40	3.95	39	0	1.7	1.7	53	84	4
03/02/79	267	3.10	4.12	28	0	0.8	0.8	32	468	13
03/06/79	271	5.65	3.97	34	0	1.0	0.9	58	1035	30
03/13/79	278	2.75	4.10	32	0	1.1	1.0	39	474	16
03/20/79	285	1.60	3.99	31	0	1.3	1.3	48	267	11
03/27/79	292	1.50	3.93	32	0	1.5	1.2	59	259	12
04/03/79	299	1.35	3.92	33	0	2.2	1.5	43	240	16
04/10/79	306	1.65	4.02	36	0	1.4	0.9	39	320	12
04/17/79	313	1.85	3.99	8	0	1.2	1.0	39	80	12
04/23/79	319	1.35	3.89	16	0	1.1	0.8	38	116	8
05/01/79	327	1.85	4.00	37	0	1.1	1.0	40	369	11
05/16/79	342	1.95	4.01	40	0	1.5	0.6	47	420	16
05/22/79	348	1.40	3.94	43	0	1.3	1.0	45	324	10
05/30/79	356	2.82	4.04	36	0	0.7	0.5	49	548	11
06/05/79	362	1.85	4.01	66	0	0.7	0.6	51	658	7
06/12/79	369	1.25	3.88	100	0	0.8	0.5	62	674	5
06/20/79	377	0.70	3.76	69	0	1.9	1.5	59	260	7
06/26/79	383	0.31	3.72	46	0	2.1	1.1	95	77	4

B4

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
CC-4

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0	0.28	4.22	22	0	0.3	0.1	27	33	0
06/16/78	8	0.89	6.41	4	6	0.2	0.1	14	19	1
06/22/78	14	0.24	6.20	7	4	0.1	0.1	12	9	0
06/28/78	20	0.51	6.08	0	6	0.1	0.1	19	0	0
07/06/78	28	0.57	5.71	4	6	0.1	0.1	28	12	0
07/12/78	34	0.46	5.84	8	8	0.3	0.3	20	20	1
07/19/78	41	0.36	4.19	23	0	0.2	0.0	37	45	0
07/26/78	48	0.26	6.10	0	10	0.5	0.2	14	0	1
08/02/78	55	0.33	6.12	0	12	0.2	0.1	18	0	0
08/09/78	62	0.65	6.28	2	20	0.7	0.5	13	7	2
08/15/78	68	0.38	4.38	25	0	0.2	0.1	42	51	0
08/23/78	76	0.22	7.01	0	10	0.4	0.4	33	0	0
08/30/78	83	0.36	6.93	0	17	0.6	0.5	19	0	1
09/07/78	91	0.24	6.15	0	4	0.3	0.2	19	0	0
09/13/78	97	0.26	5.71	0	8	2.2	2.0	15	0	3
09/20/78	104	0.54	6.02	4	6	0.8	0.6	15	12	2
09/27/78	111	0.38	6.52	0	6	0.4	0.3	31	0	1
10/04/78	118	0.56	6.09	2	6	0.4	0.4	15	6	1
10/12/78	126	0.42	6.52	3	6	0.1	0.1	52	7	0
10/13/78	127	0.42	4.17	19	0	0.0	0.0	35	43	0
10/18/78	132	0.71	5.92	7	5	1.1	0.8	20	27	4
10/25/78	139	0.36	5.35	8	6	0.2	0.1	9	16	0
11/02/78	147	0.33	6.19	2	4	0.0	0.0	20	4	0
11/09/78	154	0.22	5.92	7	4	0.6	0.3	19	8	1
11/15/78	160	0.19	5.85	2	4	0.0	0.0	17	2	0
11/22/78	167	0.38	6.19	2	4	0.1	0.1	15	4	0
11/30/78	175	0.51	6.48	3	42	0.0	0.0	18	8	0
12/06/78	181	0.54	6.51	3	5	0.0	0.0	16	0	0
12/13/78	188	1.37	6.41	4	5	0.0	0.0	19	30	0
12/20/78	195	0.89	6.54	0	6	0.0	0.0	20	0	0
12/28/78	203	0.89	6.67	6	6	0.0	0.0	24	29	0
01/04/79	210	5.20	5.66	6	2	0.0	0.0	19	168	0
01/10/79	216	4.71	6.21	6	6	0.0	0.0	16	152	0
01/18/79	224	1.62	6.48	10	4	0.0	0.0	16	87	0
01/23/79	229	2.62	6.23	8	10	0.0	0.0	13	113	0
01/31/79	237	3.38	6.63	7	6	0.0	0.0	18	128	0
02/07/79	244	1.91	6.36	6	6	0.0	0.0	15	62	0
02/15/79	252	5.75	6.36	7	6	0.0	0.0	22	217	0
02/23/79	260	0.54	6.04	10	6	0.1	0.1	24	29	0
03/01/79	266	3.38	6.29	10	8	0.0	0.0	21	182	0
03/08/79	273	7.38	6.07	10	5	0.0	0.0	23	398	0
03/14/79	279	3.81	6.31	12	6	0.0	0.0	18	246	0
03/21/79	286	1.42	4.45	17	0	0.0	0.0	27	130	0
03/28/79	293	1.37	6.27	22	6	0.2	0.1	22	162	1
04/04/79	300	1.07	3.27	8	6	0.0	0.0	19	46	0
04/11/79	307	1.39	6.20	8	7	0.0	0.0	30	60	0
04/18/79	314	1.62	6.29	7	8	0.0	0.0	18	61	0
04/25/79	321	0.94	6.34	9	8	0.0	0.0	19	46	0
05/02/79	328	1.37	6.18	7	7	0.0	0.0	20	52	0
05/17/79	343	1.16	6.18	7	6	0.0	0.0	22	44	0
05/23/79	349	1.58	5.83	8	6	0.3	0.2	28	68	3
06/01/79	358	2.19	5.90	10	4	0.0	0.0	28	118	0
06/06/79	363	1.54	6.30	49	7	0.1	0.0	38	407	1
06/12/79	369	0.95	0.00	0	0	0.0	0.0	0	0	0
06/21/79	378	0.56	6.17	21	9	0.1	0.0	32	63	0
06/27/79	384	0.50	6.30	0	4	0.1	0.1	51	0	0

B5

WATER QUALITY DATA --- CATAWISSA CREEK
 SL-135-11
 CC-5

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0	1.20	6.08	10	6	0.0	0.0	16	65	0
06/16/78	8	3.45	4.29	30	0	0.3	0.2	27	558	6
06/22/78	14	1.05	4.49	22	0	0.2	0.2	35	125	1
06/28/78	20	2.10	4.11	23	0	0.2	0.1	35	260	2
07/06/78	28	2.40	4.30	22	0	0.1	0.1	28	285	1
07/12/78	34	1.85	4.11	29	0	0.2	0.1	45	289	2
07/19/78	41	1.50	6.11	0	10	0.2	0.1	20	0	2
07/26/78	48	1.10	4.12	19	0	0.2	0.0	36	113	1
08/02/78	55	1.44	4.14	18	0	0.0	0.0	31	140	0
08/09/78	62	2.60	4.21	25	0	0.2	0.2	30	350	3
08/15/78	68	1.60	4.41	25	0	0.1	0.1	39	216	1
08/23/78	76	1.00	4.74	32	3	0.1	0.1	50	172	1
08/30/78	83	1.50	4.73	31	4	0.1	0.1	43	251	1
09/07/78	91	1.05	4.01	28	0	0.1	0.0	39	158	1
09/13/78	97	1.10	3.94	24	0	0.2	0.0	43	142	1
09/20/78	104	2.19	4.19	23	0	0.2	0.1	39	271	2
09/27/78	111	1.60	4.28	25	0	0.2	0.2	50	216	2
10/04/78	118	2.29	4.30	32	0	1.3	0.5	38	395	16
10/12/78	126	1.70	4.32	27	0	0.1	0.1	56	247	1
10/18/78	132	2.84	4.23	21	0	0.2	0.2	36	321	3
10/25/78	139	1.50	4.00	31	0	0.2	0.1	38	251	2
11/02/78	147	1.44	4.49	29	0	0.2	0.1	50	225	2
11/09/78	154	1.00	4.11	28	0	0.2	0.1	41	151	1
11/16/78	161	1.30	3.89	33	0	0.2	0.1	53	231	1
11/22/78	167	1.60	4.22	17	0	0.0	0.0	35	147	0
11/30/78	175	2.10	4.40	17	0	0.2	0.1	36	192	2
12/06/78	181	2.19	4.45	14	0	0.2	0.0	27	165	2
12/13/78	188	4.86	4.50	18	0	0.2	0.1	32	472	5
12/20/78	195	3.45	4.40	18	0	0.2	0.1	36	335	4
12/28/78	203	2.32	4.47	18	0	0.2	0.1	32	225	3
01/04/79	210	19.66	4.44	20	0	0.2	0.1	32	2119	21
01/10/79	216	17.10	4.44	16	0	0.3	0.2	26	1475	28
01/18/79	224	5.55	4.49	16	0	0.2	0.2	26	479	6
01/23/79	229	8.42	4.52	15	8	0.2	0.2	28	681	9
01/31/79	237	11.31	4.86	16	5	0.3	0.2	29	975	18
02/07/79	244	6.43	4.50	14	0	0.3	0.3	24	485	10
02/15/79	252	22.30	4.45	23	0	0.3	0.3	28	2765	36
02/23/79	260	2.19	4.46	23	0	0.2	0.1	35	271	2
03/01/79	266	11.31	4.50	18	0	0.4	0.4	29	1097	24
03/08/79	273	28.70	4.65	18	5	0.4	0.4	26	2784	62
03/14/79	279	13.00	4.57	17	8	0.3	0.3	27	1191	21
03/21/79	286	5.04	6.48	0	5	0.3	0.3	21	0	8
03/28/79	293	4.86	4.38	21	0	0.4	0.4	34	550	10
04/04/79	300	4.05	4.35	21	0	0.3	0.3	34	458	7
04/11/79	307	4.95	4.43	17	0	0.3	0.3	14	454	8
04/18/79	314	5.55	4.42	21	0	0.3	0.3	28	628	9
04/25/79	321	3.51	4.32	25	0	0.3	0.2	30	473	6
05/02/79	328	4.86	4.36	18	0	0.3	0.2	32	472	8
05/17/79	343	4.25	4.36	18	0	0.2	0.1	32	412	5
05/23/79	349	5.46	4.25	20	0	0.2	0.1	35	589	6
06/01/79	358	6.94	4.47	20	0	0.3	0.1	33	748	11
06/06/79	363	5.37	4.43	30	0	0.3	0.2	85	868	9
06/21/79	378	2.29	4.22	32	0	0.3	0.2	78	395	4
06/27/79	384	2.00	4.21	21	0	0.1	0.0	55	226	1

WATER QUALITY DATA -- CATAWISSA CREEK
SL-135-11
WLT-A

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0	9.30	3.60	184	0	2.0	0.8	265	9223	100
06/16/78	8	19.30	3.59	180	0	2.0	1.9	242	18725	208
06/21/78	13	16.20	3.80	184	0	2.1	1.6	279	16067	183
06/25/78	17	14.20	3.51	177	0	0.5	0.4	323	13547	38
07/06/78	28	17.20	3.57	189	0	2.5	2.5	337	17522	232
07/12/78	34	13.30	3.40	222	0	2.6	2.6	348	15915	186
07/19/78	41	11.50	3.49	219	0	2.6	1.8	336	13575	161
07/26/78	48	9.30	3.45	189	0	2.9	1.2	328	9474	145
08/02/78	55	9.30	3.45	182	0	2.8	0.9	333	9123	140
08/09/78	62	19.30	3.50	183	0	2.8	1.2	713	19037	291
08/15/78	68	14.70	3.70	214	0	2.8	1.3	378	16956	222
08/23/78	76	11.50	4.09	243	0	2.9	2.0	361	15062	180
08/30/78	83	15.90	4.08	270	0	2.0	1.0	370	23139	171
09/07/78	91	10.60	3.31	259	0	2.7	1.0	373	14798	154
09/13/78	97	9.70	3.18	272	0	3.0	1.3	363	14221	157
09/20/78	104	14.20	3.41	299	0	3.6	1.8	362	22885	276
09/27/78	111	11.00	3.49	303	0	3.6	1.8	385	17965	213
10/04/78	118	9.70	3.60	314	0	2.9	0.8	110	16417	152
10/12/78	126	10.60	3.52	321	0	3.5	1.7	368	18340	200
10/18/78	132	19.90	3.42	209	0	2.3	2.0	378	22418	247
10/25/78	139	16.20	3.29	337	0	3.6	2.5	349	29426	314
11/02/78	147	14.70	3.58	317	0	3.4	1.3	362	25117	269
11/07/78	152	13.30	3.48	325	0	2.6	2.4	352	23298	186
11/15/78	160	10.60	3.31	310	0	2.8	1.4	342	17712	160
11/22/78	167	12.80	3.36	200	0	3.4	2.5	312	13798	235
11/30/78	175	11.50	3.52	191	0	2.9	2.0	309	11839	180
12/06/78	181	11.90	3.49	208	0	3.1	1.4	298	13341	199
12/13/78	188	16.70	3.75	147	0	3.1	1.6	292	13232	279
12/20/78	195	13.80	3.52	170	0	2.5	1.6	280	12645	186
12/28/78	203	20.60	3.51	182	0	2.5	1.5	272	20208	278
01/04/79	210	26.30	3.63	146	0	2.5	1.5	237	20697	354
01/10/79	216	31.10	3.67	139	0	1.3	0.9	194	23300	218
01/18/79	224	17.23	3.61	129	0	1.8	1.3	228	11980	167
01/23/79	229	16.72	3.66	136	0	1.7	1.3	231	12256	153
02/07/79	244	15.71	3.60	143	0	0.7	0.5	250	12109	59
02/15/79	252	14.24	3.56	210	0	2.0	2.0	270	16118	154
02/23/79	260	8.12	3.52	183	0	2.5	2.4	241	8009	109
03/01/79	266	27.35	3.60	132	0	1.7	1.4	215	19459	251
03/08/79	273	62.04	3.73	100	0	1.7	1.4	165	33440	568
03/14/79	279	32.38	3.73	108	0	1.0	0.8	214	18849	175
03/21/79	286	19.33	3.71	131	0	1.4	1.4	218	13649	146
03/28/79	293	15.22	3.60	118	0	1.6	1.4	234	9680	131
04/04/79	300	14.25	3.61	123	0	1.7	1.4	213	9447	131
04/11/79	307	17.23	3.64	143	0	1.6	1.3	246	13280	149
04/18/79	314	18.27	3.57	119	0	1.6	1.6	192	11719	158
04/25/79	321	16.21	3.57	123	0	1.5	1.4	186	10747	131
05/02/79	328	20.42	3.57	134	0	1.5	0.8	248	14749	165
05/17/79	343	18.80	3.57	136	0	1.5	1.0	252	13781	152
05/23/79	349	19.87	3.55	142	0	1.5	1.1	261	15208	161
06/01/79	358	28.58	3.62	127	0	1.3	1.1	239	19564	200
06/06/79	363	23.79	3.71	274	0	1.5	1.3	253	35134	192
06/21/79	378	17.23	3.54	268	0	1.7	1.4	257	24889	158
06/27/79	384	12.00	3.43	182	0	2.1	0.9	293	11772	136

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
WLT-2

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0	0.66	3.87	52	0	0.6	0.3	66	185	2
06/16/78	8	1.24	3.81	57	0	0.5	0.5	67	381	3
06/22/78	14	0.70	4.06	65	0	0.5	0.5	70	245	2
06/28/78	20	0.76	3.77	58	0	0.7	0.6	86	238	3
07/06/78	28	1.24	3.82	68	0	0.6	0.5	83	454	4
07/12/78	34	0.85	3.69	83	0	0.5	0.4	83	380	2
07/18/78	40	0.72	3.79	61	0	0.5	0.1	90	237	2
07/26/78	48	0.66	3.72	42	0	0.6	0.2	86	149	2
08/02/78	55	0.62	3.72	54	0	0.5	0.2	88	180	2
08/09/78	62	0.77	3.68	74	0	0.7	0.3	127	307	3
08/15/78	68	0.70	3.94	83	0	0.6	0.2	100	313	2
08/23/78	76	0.70	4.31	84	0	0.6	0.5	86	317	2
08/30/78	83	0.70	4.28	213	0	0.7	0.4	120	804	3
09/07/78	91	0.70	3.59	92	0	0.7	0.3	97	347	3
09/13/78	97	0.62	3.45	70	0	0.7	0.3	97	234	2
09/20/78	104	0.70	3.62	98	0	0.9	0.3	116	370	3
09/27/78	111	0.62	3.72	113	0	0.8	0.4	108	378	3
10/04/78	118	0.62	3.87	113	0	0.6	0.2	81	378	2
10/12/78	126	0.62	3.80	114	0	0.6	0.6	99	381	2
10/13/78	127	0.62	3.80	91	0	0.7	0.4	102	304	2
10/18/78	132	0.93	3.62	70	0	0.5	0.5	100	351	3
10/25/78	139	0.89	3.58	86	0	0.5	0.4	84	413	2
11/02/78	147	0.89	3.93	80	0	0.5	0.2	86	384	2
11/09/78	154	0.85	3.72	83	0	0.5	0.3	85	380	2
11/15/78	160	0.77	3.60	92	0	0.6	0.2	110	382	2
11/22/78	167	0.85	3.68	89	0	0.5	0.4	75	408	2
11/30/78	175	0.89	3.86	48	0	0.5	0.3	72	230	2
12/06/78	181	1.02	3.86	68	0	0.5	0.2	66	374	3
12/13/78	188	1.56	3.97	45	0	0.5	0.4	64	378	4
12/20/78	195	1.24	3.83	49	0	0.4	0.2	74	327	3
12/28/78	203	3.76	3.83	44	0	0.5	0.3	74	892	10
01/04/79	210	5.77	3.88	52	0	0.4	0.3	75	1617	12
01/10/79	216	5.05	3.88	45	0	0.5	0.3	73	1225	14
01/18/79	224	1.91	3.82	47	0	0.6	0.4	68	484	6
01/23/79	229	2.32	3.80	55	0	0.6	0.5	74	688	8
01/31/79	237	3.05	4.28	45	0	0.5	0.5	63	740	8
02/07/79	244	1.70	3.84	47	0	0.1	0.1	74	431	1
02/15/79	252	1.28	3.75	71	0	0.0	0.0	81	490	0
02/23/79	260	1.06	3.82	49	0	0.5	0.4	96	280	3
03/01/79	266	2.87	3.84	42	0	0.8	0.7	50	650	12
03/08/79	273	1.91	3.88	48	0	0.4	0.4	62	494	4
03/14/79	279	2.95	3.88	52	0	0.5	0.4	108	827	8
03/21/79	286	2.14	3.88	50	0	0.5	0.5	63	577	6
03/28/79	293	1.98	3.81	50	0	0.5	0.4	86	534	5
04/04/79	300	1.76	3.90	55	0	0.5	0.2	75	522	5
04/11/79	307	1.84	3.92	46	0	0.5	0.4	74	456	5
04/18/79	314	2.06	3.87	40	0	0.6	0.5	82	444	7
04/25/79	321	1.63	3.85	48	0	0.5	0.3	81	422	4
05/02/79	328	1.84	3.83	41	0	0.5	0.4	73	407	5
05/17/79	343	1.63	3.88	39	0	0.4	0.2	75	343	4
05/23/79	349	1.39	3.82	39	0	0.5	0.2	78	292	4
06/01/79	358	2.95	3.87	32	0	0.7	0.6	71	509	11
06/06/79	363	2.23	3.90	99	0	0.8	0.6	89	1190	10
06/21/79	378	1.24	3.81	45	0	0.4	0.3	78	301	3
06/27/79	384	1.10	3.76	83	0	0.5	0.3	105	492	3

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
CC-6

SAMPLING DATE	TIME days	pH	ACID. mg/1	ALKA. mg/1	TOT. IRON mg/1	FE++ IRON mg/1	S04 mg/1
06/08/78	0	3.99	78	0	0.8	0.3	109
06/16/78	8	3.87	90	0	0.9	0.8	145
06/22/78	14	4.20	94	0	0.8	0.7	132
06/28/78	20	3.72	100	0	1.4	1.2	187
07/06/78	28	3.81	95	0	1.0	1.0	179
07/12/78	34	3.59	110	0	1.0	0.9	215
07/19/78	41	3.72	119	0	1.5	1.5	219
07/26/78	48	3.61	114	0	1.0	1.0	209
08/01/78	54	3.69	116	0	1.1	0.9	220
08/08/78	61	3.80	80	0	1.0	1.0	154
08/18/78	71	4.59	56	0	0.2	0.1	127
08/23/78	76	4.25	148	0	1.7	1.5	247
08/29/78	82	4.30	129	0	1.0	1.1	214
09/06/78	90	3.49	169	0	1.4	1.2	260
09/12/78	96	3.36	166	0	1.4	1.4	224
09/19/78	103	3.76	123	0	1.2	1.0	151
09/26/78	110	3.62	225	0	1.7	1.1	290
10/03/78	117	3.72	220	0	1.9	1.0	176
10/11/78	125	3.53	216	0	1.3	0.9	252
10/17/78	131	3.75	87	0	1.0	0.9	172
10/24/78	138	3.52	117	0	1.3	1.2	172
10/31/78	145	3.90	109	0	1.1	0.6	160
11/09/78	154	3.69	151	0	1.0	0.8	169
11/14/78	159	3.53	149	0	1.3	0.7	190
11/21/78	166	3.68	46	0	1.1	0.5	143
11/28/78	173	3.90	71	0	1.8	1.6	124
12/05/78	180	4.01	62	0	2.6	1.2	96
12/12/78	187	4.08	59	0	1.2	0.8	87
12/19/78	194	3.91	64	0	0.9	0.4	115
12/27/78	202	3.92	58	0	0.8	0.4	107
01/03/79	209	4.13	52	0	0.6	0.3	92
01/09/79	215	4.12	44	0	0.5	0.5	78
01/17/79	223	4.02	53	0	0.6	0.6	86
01/31/79	237	4.66	43	4	0.4	0.3	80
02/06/79	243	4.11	47	0	0.2	0.1	85
02/14/79	251	3.84	86	0	0.8	0.5	146
02/21/79	258	3.81	95	0	1.0	0.8	152
02/27/79	264	4.18	44	0	0.6	0.5	76
03/06/79	271	4.19	38	0	0.5	0.5	66
03/13/79	278	4.14	49	0	0.4	0.4	93
03/20/79	285	4.04	54	0	1.7	1.8	101
03/27/79	292	4.02	52	0	0.7	0.7	104
04/03/79	299	4.01	51	0	1.1	0.7	99
04/11/79	307	4.07	53	0	0.9	0.7	98
04/17/79	313	4.01	50	0	0.7	0.6	88
04/24/79	320	3.93	56	0	0.7	0.5	83
05/01/79	327	3.99	53	0	0.6	0.5	101
05/16/79	342	4.06	48	0	0.9	0.6	99
05/22/79	348	3.94	53	0	1.0	0.6	108
05/30/79	356	4.10	43	0	0.5	0.3	110
06/05/79	362	4.08	171	0	0.8	0.6	121
06/12/79	369	3.94	86	0	0.9	0.7	140
06/20/79	377	3.81	47	0	1.1	0.7	111
06/26/79	383	3.69	134	0	1.2	0.8	180

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
CC-7

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/08/78	0		4.16	52	0	0.8	0.4	97		
06/16/78	8		3.99	76	0	0.6	0.6	125		
06/22/78	14	53.3	4.22	79	0	0.6	0.5	123	22713	173
06/29/78	21	28.8	3.80	90	0	0.5	0.4	169	13976	78
07/06/78	28	31.3	3.90	90	0	0.6	0.6	163	15215	101
07/13/78	35	22.5	4.19	109	0	1.7	1.4	191	13249	207
07/19/78	41	20.2	3.79	126	0	0.6	0.6	189	13772	66
07/26/78	48	15.9	3.70	104	0	0.6	0.6	200	8968	52
08/02/78	55	14.9	3.77	115	0	0.6	0.6	189	9272	48
08/09/78	62	23.0	3.79	109	0	0.7	0.7	166	13570	87
08/16/78	69	22.8	4.11	90	0	0.6	0.5	162	11071	74
08/24/78	77	17.0	4.35	200	0	0.6	0.6	208	18335	55
08/30/78	83	23.0	4.39	113	0	1.5	0.5	203	14069	187
09/07/78	91	16.6	3.59	146	0	0.7	0.7	210	13103	63
09/13/78	97	15.1	3.42	146	0	0.8	0.8	212	11940	65
09/20/78	104	20.6	3.69	143	0	1.0	0.6	199	15932	111
09/27/78	111	20.6	3.71	194	0	3.3	1.3	255	21549	367
10/04/78	118	12.9	3.81	219	0	0.9	0.7	80	15292	63
10/12/78	126	12.8	3.68	174	0	0.8	0.5	226	12093	56
10/18/78	132	38.9	3.84	75	0	0.7	0.7	158	15742	147
10/25/78	139	20.7	3.57	117	0	1.3	1.2	156	13077	145
11/02/78	147	25.1	3.91	98	0	1.2	1.1	152	13275	163
11/15/78	160	18.5	3.60	121	0	1.2	0.7	137	12087	120
11/22/78	167	25.6	3.94	94	0	1.1	0.7	122	12974	152
11/28/78	173	25.6	4.07	62	0	3.0	0.8	117	8575	415
12/06/78	181	37.3	4.09	51	0	3.5	0.9	87	10264	704
12/13/78	188	58.4	4.24	45	0	1.0	0.7	75	14179	315
12/20/78	195	34.2	4.05	60	0	0.6	0.2	100	11080	111
12/28/78	203	12.9	4.06	54	0	0.9	0.7	86	3771	63
01/03/79	209		4.26	39	0	0.5	0.4	75		
01/10/79	216	109.6	4.40	27	0	0.6	0.5	55	15964	355
01/17/79	223	0.0	4.12	54	0	0.6	0.5	80		
01/23/79	229	37.5	4.15	43	0	0.5	0.4	78	8705	101
01/30/79	236	111.1	4.36	42	0	0.4	0.3	74	25168	240
02/07/79	244		4.00	55	0	0.6	0.4	108		
02/14/79	251		4.08	78	0	0.8	0.7	97		
02/22/79	259		3.90	80	0	0.8	0.7	135		
03/01/79	266	88.4	4.32	38	0	0.5	0.5	66	18113	238
03/09/79	274	113.1	4.25	41	0	0.4	0.4	72	25008	244
03/14/79	279	87.1	4.27	40	0	0.4	0.3	76	18784	188
03/21/79	286	48.3	4.14	53	0	0.6	0.5	91	13805	156
03/28/79	293	44.3	4.15	43	0	0.6	0.6	94	10285	144
04/04/79	300	44.2	4.12	47	0	0.6	0.4	91	11214	143
04/10/79	306	45.6	4.28	36	0	0.5	0.4	74	8853	123
04/18/79	314	49.5	4.12	46	0	0.6	0.5	75	12287	160
04/25/79	321	45.4	4.04	55	0	0.4	0.4	73	13481	98
05/11/79	337	44.4	4.11	40	0	0.5	0.5	88	9581	120
05/16/79	342		4.22	40	0	0.4	0.3	82		
05/23/79	349	44.2	4.13	43	0	0.4	0.3	83	10256	95
05/30/79	356		4.24	37	0	0.4	0.2	79		
06/06/79	363	51.8	4.20	100	0	0.5	0.4	83	27947	140
06/12/79	369		4.12	81	0	0.6	0.4	131		
06/21/79	378	12.8	3.91	81	0	0.4	0.3	84	5628	28
06/27/79	384	21.3	3.73	95	0	1.1	0.6	155	10907	126

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
CC-8

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lbs./day	IRON LOAD
06/09/78	0		4.45	30	0	0.6	0.3	66		
06/15/78	7		4.42	52	0	0.5	0.4	85		
06/21/78	13		5.31	20	4	1.3	0.8	56		
06/28/78	20	47.8	4.10	56	0	0.2	0.2	97	14430	52
07/09/78	31	39.6	4.30	56	0	0.2	0.2	117	11978	43
07/20/78	42	25.3	4.20	15	0	0.2	0.2	136	2053	27
07/27/78	49	27.7	4.40	51	0	0.1	0.1	113	7638	15
08/03/78	56	40.7	4.40	57	0	0.4	0.3	120	12508	88
08/10/78	63	45.6	4.22	68	0	0.3	0.2	124	16748	74
08/17/78	70	38.5	4.69	56	0	0.3	0.3	116	11624	62
08/24/78	77	31.5	4.80	92	4	0.6	0.6	147	15660	102
08/31/78	84		5.00	75	8	0.4	0.4	136		
09/03/78	87		4.02	78	0	0.2	0.2	144		
09/14/78	98	25.9	4.73	92	0	0.2	0.2	152	12890	28
09/21/78	105	65.9	4.61	23	3	1.3	0.9	73	8176	462
09/28/78	112	19.8	4.38	8	0	1.5	1.0	150	856	160
10/05/78	119	86.5	4.72	35	2	0.4	0.4	82	16323	187
10/19/78	133	55.2	4.30	58	0	0.3	0.3	121	17277	89
10/26/78	140		4.29	43	0	0.8	0.8	72		
11/16/78	161	33.2	4.00	69	0	1.3	0.7	141	12383	233
11/27/78	172	82.2	4.64	39	0	1.1	1.0	83	17295	488
12/07/78	182	76.6	4.07	27	0	1.8	1.1	65	11149	743
12/14/78	189	105.5	4.80	21	3	0.4	0.2	63	11948	228
12/21/78	196	77.3	4.67	29	4	0.0	0.0	63	12084	0
12/28/78	203		4.66	26	4	0.2	0.2	67		
01/04/79	210		4.70	30	4	0.2	0.2	54		
01/11/79	217	169.9	4.72	22	3	0.0	0.0	47	20152	0
01/18/79	224		4.60	37	4	0.3	0.2	74		
01/23/79	229	216.8	4.65	26	8	0.3	0.3	51	30392	351
02/01/79	238		4.63	33	2	0.3	0.2	43		
02/08/79	245		4.62	27	10	0.4	0.4	59		
02/15/79	252		4.51	45	0	0.4	0.4	81		
02/21/79	258		4.49	47	0	0.4	0.3	83		
02/26/79	263		4.80	24	4	0.4	0.3	49		
03/08/79	273	271.0	4.77	25	6	0.4	0.3	43	36524	584
03/15/79	280	173.4	4.77	28	5	0.2	0.2	66	26184	187
03/22/79	287	98.4	4.64	28	2	0.3	0.3	63	14859	159
03/29/79	294	119.5	4.65	29	2	0.4	0.4	62	18694	258
04/05/79	301	59.3	4.68	29	4	0.3	0.3	76	9271	96
04/11/79	307	53.4	4.77	25	6	0.2	0.2	59	7196	58
04/19/79	315	88.3	4.60	27	3	0.3	0.3	59	12861	143
04/26/79	322	86.5	4.60	28	2	0.3	0.2	60	13060	140
05/03/79	329	96.1	4.66	24	5	0.3	0.3	57	12441	156
05/17/79	343		4.58	25	4	0.4	0.2	58		
05/24/79	350		4.27	4	15	0.4	0.3	46		
05/30/79	356		4.76	20	8	0.4	0.2	53		
06/07/79	364	100.8	4.66	37	5	0.4	0.3	73	20120	218
06/18/79	375	65.9	4.46	42	0	0.3	0.2	75	14930	107
06/28/79	385	40.4	4.31	77	0	0.2	0.1	128	16776	44

WATER QUALITY DATA --- CATAWISSA CREEK
 SL-135-11
 CC-9

SAMPLING DATE	TIME days	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l
06/09/78	0	4.50	20	2	0.9	0.4	39
06/15/78	7	4.52	40	2	0.2	0.2	64
06/21/78	13	4.89	26	0	0.9	0.7	61
06/28/78	20	4.33	38	0	0.1	0.1	82
07/09/78	31	4.42	49	0	0.1	0.0	99
07/12/78	34	4.62	52	0	0.2	0.2	103
07/20/78	42	4.31	54	0	0.1	0.1	104
07/27/78	49	4.44	37	0	0.2	0.2	81
08/03/78	56	4.49	41	0	0.0	0.0	90
08/10/78	63	4.31	56	0	0.2	0.2	96
08/15/78	68	4.71	48	0	0.1	0.1	104
08/24/78	77	4.89	74	4	0.8	0.6	131
08/31/78	84	5.01	53	5	0.2	0.2	115
09/07/78	91	4.10	74	0	0.4	0.4	140
09/14/78	98	3.97	68	0	0.3	0.3	129
09/21/78	105	4.42	41	0	0.6	0.3	97
09/28/78	112	4.39	67	0	0.4	0.4	143
10/05/78	119	4.72	28	2	0.6	0.5	30
10/19/78	133	4.31	48	0	0.2	0.2	125
10/26/78	140	4.39	43	0	0.8	0.8	78
11/16/78	161	4.09	64	0	1.1	0.6	102
11/27/78	172	4.68	33	0	0.6	0.5	77
12/05/78	180	4.75	19	0	0.2	0.0	62
12/07/78	182	4.79	37	0	0.5	0.3	57
12/14/78	189	4.26	21	3	0.2	0.1	64
12/21/78	196	4.70	26	1	0.2	0.1	59
12/28/78	203	4.71	27	4	0.2	0.2	55
01/04/79	210	4.74	25	4	0.2	0.2	58
01/11/79	217	4.70	22	4	0.1	0.1	51
01/18/79	224	4.65	28	2	0.2	0.1	51
01/24/79	230	4.54	20	7	0.8	0.7	38
02/01/79	238	4.80	33	6	0.1	0.0	74
02/08/79	245	4.51	29	0	0.3	0.3	62
02/15/79	252	4.72	39	2	0.2	0.2	75
02/21/79	258	4.44	39	0	0.3	0.2	81
02/26/79	263	4.81	20	4	0.3	0.2	23
03/08/79	273	4.78	16	6	0.0	0.0	39
03/15/79	280	4.90	26	5	0.2	0.1	56
03/21/79	286	4.68	35	2	0.2	0.2	63
03/29/79	294	4.71	27	2	0.4	0.4	51
04/05/79	301	4.73	21	14	0.3	0.3	48
04/12/79	308	4.92	19	1	0.1	0.1	51
04/19/79	315	4.65	23	3	0.5	0.4	54
04/26/79	322	4.67	28	2	0.5	0.3	52
05/03/79	329	4.89	23	5	0.3	0.2	55
05/17/79	343	4.63	25	5	0.2	0.1	54
05/24/79	350	5.04	6	9	0.5	0.2	45
05/30/79	356	4.83	25	4	0.3	0.2	56
06/07/79	364	4.68	51	6	0.4	0.3	65
06/18/79	375	4.54	50	8	0.1	0.1	63
06/28/79	385	4.36	47	0	0.1	0.0	91

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
S-2

SAMPLING DATE	TIME days	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l
06/09/78	0	5.50	8	6	0.2	0.0	16
06/15/78	7	6.08	16	5	0.2	0.2	20
06/20/78	12	6.10	11	6	0.1	0.1	16
07/06/78	28	5.73	9	6	0.1	0.0	19
07/12/78	34	5.60	8	6	0.0	0.0	18
07/26/78	48	5.82	4	8	0.3	0.2	13
08/02/78	55	5.79	6	8	0.2	0.0	19
08/09/78	62	6.00	6	6	0.1	0.1	18
08/16/78	69	6.15	9	4	0.0	0.0	18
08/23/78	76	6.53	3	6	0.0	0.0	16
08/30/78	83	6.39	9	8	0.1	0.1	19
09/07/78	91	5.95	4	2	0.0	0.0	23
09/13/78	97	5.81	5	4	0.2	0.1	15
09/20/78	104	5.90	6	3	0.2	0.0	15
09/27/78	111	6.02	8	4	0.3	0.3	19
10/04/78	118	5.75	7	3	0.3	0.1	20
10/12/78	126	6.00	10	3	0.1	0.1	19
10/18/78	132	5.80	5	6	0.1	0.0	15
10/25/78	139	5.50	6	6	0.2	0.2	22
11/01/78	146	6.19	10	4	0.2	0.2	22
11/07/78	152	5.61	5	6	0.2	0.1	20
11/15/78	160	5.60	8	3	0.3	0.1	21
11/23/78	168	6.60	6	2	0.2	0.1	18
11/28/78	173	6.94	6	7	0.2	0.1	16
12/06/78	181	6.48	5	5	0.1	0.1	17
12/13/78	188	6.17	4	5	0.3	0.2	20
12/20/78	195	6.39	8	5	0.2	0.1	36
12/28/78	203	5.85	8	6	0.4	0.3	23
01/04/79	210	5.93	8	6	0.4	0.2	28
01/10/79	216	6.13	5	6	0.0	0.0	18
01/18/79	224	6.27	7	4	0.0	0.0	17
01/24/79	230	5.56	10	8	0.1	0.0	19
01/31/79	237	5.68	8	4	0.0	0.0	20
02/07/79	244	5.79	9	6	0.1	0.0	23
02/14/79	251	5.90	8	6	0.1	0.0	20
02/20/79	257	5.80	8	6	0.1	0.0	20
02/27/79	264	5.77	13	5	0.1	0.0	15
03/06/79	271	5.08	12	5	0.0	0.0	22
03/14/79	279	5.79	16	6	0.1	0.0	35
03/21/79	286	6.07	7	5	0.1	0.1	23
03/28/79	293	5.83	10	6	0.2	0.2	28
04/04/79	300	5.81	10	6	0.1	0.1	24
04/11/79	307	5.92	8	4	0.0	0.0	20
04/18/79	314	5.84	8	10	0.3	0.1	20
04/25/79	321	5.97	10	6	0.3	0.2	20
05/02/79	328	5.90	11	8	0.2	0.2	100
05/23/79	349	5.81	10	4	0.8	0.6	101
05/31/79	357	5.65	10	6	0.0	0.0	98
06/06/79	363	5.93	16	7	0.1	0.0	55
06/21/79	378	5.63	18	6	0.0	0.0	54
06/27/79	384	5.84	20	5	0.1	0.0	31

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
WLT-0

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/09/78	0	1.36	3.69	78	0	0.7	0.3	117	572	5
06/16/78	7	3.23	3.72	92	0	0.9	0.6	113	1602	16
06/22/78	13	2.64	4.00	125	0	0.2	0.1	114	1779	3
06/30/78	21	2.21	3.68	70	0	0.7	0.6	117	834	8
07/06/78	28	2.11	3.70	80	0	0.3	0.2	115	910	3
07/12/78	34	1.71	3.32	70	0	0.7	0.7	122	645	6
07/19/78	41	1.53	3.68	76	0	0.8	0.7	141	627	7
07/26/78	48	1.36	3.63	123	0	1.1	0.5	117	902	8
08/02/78	55	1.19	3.65	99	0	0.9	0.3	115	635	6
08/09/78	62	1.91	3.58	96	0	1.0	0.9	149	988	10
08/16/78	69	1.71	3.95	114	0	1.0	0.6	154	1051	9
08/23/78	76	1.19	4.20	116	0	1.0	0.4	141	744	6
08/30/78	83	1.53	4.12	103	0	1.1	1.1	167	849	9
09/07/78	91	1.27	3.42	106	0	1.1	0.4	146	726	8
09/13/78	97	1.11	3.33	105	0	1.0	0.5	134	628	6
09/20/78	104	1.36	3.51	139	0	1.2	0.9	157	1019	9
09/27/78	111	1.44	3.64	125	0	1.1	0.5	155	970	9
10/04/78	118	1.27	3.78	105	0	1.7	0.6	134	719	12
10/12/78	126	1.62	3.58	154	0	1.0	1.0	134	1345	9
10/18/78	132	2.11	3.47	170	0	1.1	0.3	143	1933	13
10/25/78	139	1.91	3.44	132	0	1.0	1.0	140	1359	10
11/02/78	147	1.91	3.78	160	0	1.2	0.6	129	1647	12
11/08/78	153	1.91	3.58	159	0	1.1	0.4	132	1637	11
11/15/78	160	1.71	3.50	112	0	1.0	0.5	119	1032	9
11/23/78	168	1.71	3.60	125	0	1.1	0.3	129	1152	10
11/28/78	173	1.71	3.67	73	0	1.1	1.1	112	673	10
12/05/78	180	2.05	3.65	76	0	1.1	0.0	110	840	12
12/06/78	181	2.00	3.63	70	0	1.2	0.9	108	755	13
12/13/78	188	2.75	3.78	82	0	1.2	0.9	133	1215	18
12/20/78	195	2.53	3.58	71	0	1.0	0.4	119	968	14
12/28/78	203	2.87	3.59	82	0	1.0	0.3	99	1268	15
01/04/79	210	8.19	3.61	80	0	1.0	0.8	108	3532	44
01/10/79	216	7.82	3.61	75	0	0.3	0.2	130	3161	13
01/18/79	224	3.87	3.59	77	0	1.3	0.5	103	1606	27
01/24/79	230	14.77	3.63	86	0	1.0	0.7	118	6846	80
01/31/79	237	5.76	3.64	71	0	0.7	0.5	123	2204	22
02/07/79	244	3.48	3.81	42	0	0.6	0.3	82	788	11
02/14/79	251	3.11	3.69	74	0	0.7	0.5	117	1240	12
02/20/79	257	1.75	3.63	68	0	0.6	0.6	116	641	6
02/27/79	264	4.20	3.56	81	0	0.7	0.6	139	1834	16
03/06/79	271	11.00	3.60	70	0	0.8	0.5	116	4150	47
03/14/79	279	3.37	3.63	64	0	0.6	0.5	113	1164	11
03/21/79	286	2.50	3.71	64	0	0.6	0.6	103	862	8
03/28/79	293	2.60	3.68	64	0	0.6	0.4	97	897	8
04/04/79	300	2.40	3.71	57	0	0.6	0.5	107	737	8
04/11/79	307	2.30	3.71	59	0	0.6	0.3	91	731	7
04/18/79	314	2.25	3.67	58	0	0.7	0.6	101	703	8
04/25/79	321	2.10	3.66	60	0	0.7	0.6	98	679	8
05/02/79	328	2.10	3.63	65	0	0.7	0.5	96	736	8
05/16/79	342	1.90	3.65	61	0	0.7	0.5	96	625	7
05/23/79	349	2.00	3.65	63	0	1.0	0.8	120	679	11
05/31/79	357	3.37	3.65	69	0	0.7	0.5	100	1255	13
06/06/79	363	2.90	3.69	233	0	0.8	0.6	131	3642	13
06/21/79	378	1.65	3.64	89	0	0.6	0.3	128	792	5
06/27/79	384	1.40	3.63	77	0	0.7	0.3	121	581	5

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
S-1

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lbs./day	IRON LOAD day
06/09/78	0		4.20	24	0	0.4	0.1	44		
06/15/78	7		4.52	28	3	0.5	0.4	38		
06/21/78	13	8.8	4.72	33	2	0.2	0.2	38	1582	10
06/29/78	21	8.5	4.48	23	0	0.3	0.3	40	1056	14
07/06/78	28	6.3	4.50	26	0	0.1	0.1	45	892	3
07/12/78	34	6.4	4.36	25	0	0.2	0.0	49	874	7
07/19/78	41	4.3	4.50	27	0	0.2	0.2	60	629	5
07/26/78	48	3.6	4.45	27	0	0.1	0.1	53	532	2
08/02/78	55	3.8	4.47	28	0	0.2	0.1	51	577	4
08/09/78	62	5.0	4.32	25	0	0.2	0.2	49	682	5
08/15/78	68	3.8	4.70	27	0	0.5	0.4	51	557	10
08/27/78	80	4.1	5.00	34	4	0.2	0.1	61	758	4
08/30/78	83	6.0	5.01	24	4	0.3	0.3	43	777	10
09/07/78	91		4.21	55	0	0.2	0.2	63		
09/13/78	97	3.1	4.11	31	0	0.2	0.1	46	533	3
09/20/78	104	3.5	4.29	32	0	0.3	0.2	50	611	6
09/27/78	111	3.2	4.44	31	0	0.3	0.3	54	537	5
10/04/78	118	3.1	4.49	31	0	0.6	0.6	52	529	10
10/12/78	126	2.9	4.35	66	0	0.1	0.1	52	1035	2
10/18/78	132	4.8	4.31	41	0	0.1	0.1	45	1065	3
10/25/78	139	3.2	4.12	31	0	0.2	0.1	52	544	4
10/29/78	143	4.0	4.85	16	2	0.0	0.0	42	352	0
11/15/78	160	3.3	3.99	37	0	0.6	0.3	53	670	11
11/23/78	168	6.0	4.55	20	0	0.1	0.0	36	653	3
11/28/78	173	3.1	4.49	23	0	0.0	0.0	40	385	0
12/06/78	181	6.3	4.53	18	0	0.0	0.0	40	615	0
12/13/78	188	10.5	4.47	18	0	0.2	0.2	38	1025	11
12/20/78	195	9.9	4.47	19	0	0.1	0.0	63	1019	5
12/28/78	203		4.45	22	0	0.1	0.0	19		
01/04/79	210		4.45	21	0	0.0	0.0	35		
01/10/79	216	22.4	4.34	22	0	0.1	0.1	36	2660	12
01/18/79	224		4.40	24	0	0.1	0.1	36		
01/24/79	230	33.6	4.43	19	0	0.1	0.0	32	3445	18
01/31/79	237		4.46	22	0	0.1	0.0	34		
02/07/79	244		4.40	24	0	0.0	0.0	43		
02/15/79	252		4.51	23	0	0.2	0.1	51		
02/20/79	257		4.45	24	0	0.2	0.2	46		
02/27/79	264	24.7	4.40	26	0	0.1	0.1	35	3469	13
03/06/79	271		4.34	20	0	0.1	0.1	36		
03/14/79	279	19.1	4.48	24	0	0.3	0.2	62	2471	31
03/21/79	286	11.4	4.54	21	0	0.1	0.1	36	1295	6
03/28/79	293	11.5	4.52	23	2	0.2	0.3	35	1428	12
04/04/79	300	15.9	4.52	21	3	0.1	0.1	36	1804	9
04/11/79	307	12.2	4.55	17	0	0.1	0.0	35	1126	7
04/18/79	314	11.7	4.50	20	0	0.2	0.1	39	1264	13
04/25/79	321	7.7	4.47	18	0	0.1	0.0	37	757	4
05/02/79	328	8.9	4.52	19	2	0.2	0.1	24	912	10
05/17/79	343		4.50	21	0	0.3	0.1	28		
05/23/79	349	24.7	4.56	20	2	1.2	1.0	38	2669	160
05/30/79	356		4.41	20	0	0.2	0.1	26		
06/06/79	363	10.4	4.46	40	0	0.4	0.3	57	2259	23
06/21/79	378	3.1	4.45	38	0	0.5	0.2	59	647	9
06/27/79	384	5.3	4.46	34	0	0.2	0.1	63	975	6

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
TC-4

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lbs./day	IRON LOAD
06/09/78	0		4.60	12	4	0.7	0.2	19		
06/15/78	7		4.81	18	4	0.5	0.4	19		
06/21/78	13		4.99	10	2	0.5	0.4	19		
06/29/78	21	2.1	4.68	13	5	0.7	0.7	21	148	8
07/06/78	28	1.6	4.69	13	0	0.2	0.2	19	115	2
07/12/78	34	1.2	4.31	12	0	0.1	0.0	23	78	1
07/19/78	41	0.5	4.67	13	4	0.8	0.8	20	39	2
07/26/78	48	0.7	4.60	10	3	0.5	0.5	20	39	2
08/02/78	55	0.8	4.67	15	4	0.2	0.2	21	65	1
08/09/78	62	2.0	4.62	13	2	0.3	0.3	19	141	3
08/16/78	69	1.4	4.92	13	2	0.5	0.4	19	104	4
08/27/78	80	0.4	5.25	13	4	0.2	0.1	19	31	0
08/30/78	83	3.3	5.28	14	4	0.5	0.5	19	254	9
09/07/78	91		4.48	13	0	0.3	0.3	23		
09/13/78	97	0.6	4.41	11	0	0.1	0.1	20	38	0
09/20/78	104	2.5	4.78	10	0	0.4	0.2	22	136	5
09/27/78	111	1.6	4.84	10	2	0.3	0.3	23	87	3
10/04/78	118	2.0	4.80	11	2	0.2	0.1	20	122	2
10/12/78	126	1.8	4.71	8	2	0.1	0.1	23	80	1
10/12/78	126		4.69	12	3	0.1	0.1	34		
10/18/78	132	3.3	4.62	12	3	0.1	0.1	20	216	2
10/25/78	139	2.1	4.41	16	0	0.1	0.1	23	181	1
11/02/78	147	2.6	4.89	12	2	0.0	0.0	24	168	0
11/15/78	160	2.3	4.15	15	0	0.1	0.1	20	187	1
11/23/78	168	4.7	4.87	10	1	0.0	0.0	20	255	0
11/28/78	173	2.0	4.92	6	0	0.0	0.0	22	66	0
12/06/78	181	4.5	4.89	10	0	0.1	0.0	20	244	2
12/13/78	188	6.2	4.77	10	8	0.1	0.1	20	335	3
12/20/78	195	5.8	4.75	12	4	0.1	0.0	23	379	3
12/27/78	202	2.0	4.78	12	4	0.0	0.0	22	133	0
01/03/79	209		4.78	12	4	0.0	0.0	22		
01/10/79	216	13.5	4.60	11	2	0.0	0.0	21	803	0
01/17/79	223		4.69	14	3	0.0	0.0	23		
01/23/79	229	5.8	4.61	12	6	0.1	0.0	19	379	3
01/31/79	237		4.64	15	2	0.0	0.0	22		
02/07/79	244		4.63	8	6	0.0	0.0	20		
02/15/79	252		5.00	14	7	0.1	0.1	23		
02/20/79	257		4.79	16	3	0.0	0.0	20		
02/27/79	264	12.9	4.77	16	5	0.1	0.1	20	1114	7
03/06/79	271	25.9	4.64	15	6	0.1	0.0	23	2095	14
03/14/79	279	9.9	4.78	14	2	0.0	0.0	24	753	0
03/21/79	286	5.6	5.06	12	2	0.0	0.0	21	366	0
03/28/79	293	6.6	4.82	22	2	0.2	0.2	23	791	7
04/04/79	300	8.1	4.83	14	13	0.0	0.0	21	617	0
04/10/79	306	8.2	4.81	8	2	0.0	0.0	21	356	0
04/18/79	314	4.9	4.82	10	6	0.1	0.0	22	267	3
04/25/79	321	3.7	4.84	8	6	0.0	0.0	20	163	0
05/02/79	328	4.4	4.87	10	5	0.1	0.1	12	238	2
05/17/79	343		4.83	12	4	0.2	0.1	25		
05/23/79	349	13.5	4.71	14	6	1.2	0.9	37	1022	88
05/30/79	356		4.63	10	8	0.2	0.1	23		
06/06/79	363	5.8	4.67	19	4	0.2	0.1	28	601	6
06/21/79	378	2.0	4.68	20	5	0.1	0.0	30	221	1
06/27/79	384	0.8	4.70	20	2	1.2	0.7	55	91	5

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
WLT-1

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l	ACID LOAD lbs./day	IRON LOAD
06/09/78	0	10.00	4.29	24	0	0.3	0.0	43	1294	16
06/16/78	7	16.80	4.40	54	0	0.2	0.2	55	4890	18
06/22/78	13	12.30	4.69	29	0	0.2	0.1	42	1923	13
06/30/78	21	8.40	4.35	24	0	0.2	0.2	51	1087	9
07/07/78	28	5.80	4.47	32	0	0.2	0.2	57	1000	6
07/14/78	35	4.20	4.39	31	0	0.2	0.0	57	702	5
07/20/78	41	2.70	4.43	40	0	0.5	0.5	53	582	7
07/27/78	48	1.80	4.39	25	0	0.2	0.2	62	243	2
08/03/78	55	1.50	4.37	39	0	0.2	0.1	71	315	2
08/10/78	62	2.70	4.22	33	0	0.2	0.1	62	480	3
08/16/78	68	4.60	4.61	35	0	0.2	0.1	67	868	5
08/24/78	76	2.70	4.92	38	4	0.2	0.1	71	553	3
08/31/78	83	2.20	4.85	48	4	0.5	0.5	65	569	6
09/08/78	91	1.50	4.13	40	0	0.2	0.2	78	323	2
09/14/78	97	1.35	4.02	37	0	0.2	0.2	82	269	1
09/21/78	104	1.40	4.09	76	0	0.7	0.2	89	573	5
09/28/78	111	1.40	4.31	47	0	0.3	0.3	81	355	2
10/05/78	118	1.75	4.30	51	0	0.2	0.2	94	481	2
10/13/78	126	1.50	4.18	93	0	0.2	0.1	96	752	2
10/19/78	132	2.50	4.04	45	0	0.2	0.1	85	606	3
10/26/78	139	2.70	3.95	66	0	0.2	0.2	88	960	3
11/03/78	147	4.00	4.59	41	1	0.5	0.4	70	884	11
11/16/78	160	3.10	4.45	62	0	0.2	0.2	95	1036	3
11/24/78	168	3.04	4.26	42	0	0.2	0.1	76	688	3
11/29/78	173	3.04	4.28	33	0	0.1	0.1	72	541	2
12/06/78	180	4.19	4.27	31	0	0.1	0.0	50	700	2
12/07/78	181	4.19	4.22	35	0	0.2	0.1	73	790	5
12/14/78	188	7.37	4.13	34	0	0.2	0.2	67	1351	8
12/21/78	195	5.46	4.19	31	0	0.2	0.1	63	912	6
12/28/78	202	7.62	4.27	30	0	0.2	0.1	79	1232	8
01/04/79	209	19.99	4.20	30	0	0.1	0.1	68	3232	11
01/11/79	216	3.41	4.17	31	0	0.2	0.2	59	570	4
01/18/79	223	11.83	4.23	18	0	0.2	0.2	75	1148	13
01/24/79	229	13.07	4.23	33	0	0.2	0.1	55	2325	14
02/01/79	237	8.94	4.68	12	4	0.0	0.0	19	578	0
02/08/79	244	5.24	4.26	27	0	0.0	0.0	59	763	0
02/16/79	252	2.87	4.42	30	0	0.3	0.2	59	464	5
02/21/79	257	1.89	4.28	29	0	0.8	0.7	72	295	8
02/27/79	263	11.52	4.17	38	0	0.3	0.3	24	2360	19
02/28/79	264	7.88	4.14	42	0	0.3	0.2	64	1784	13
03/07/79	271	20.87	4.09	25	0	0.2	0.1	58	2812	22
03/15/79	279	8.94	4.30	26	0	0.3	0.2	73	1253	14
03/22/79	286	5.03	4.37	25	0	0.1	0.1	54	678	3
03/29/79	293	4.81	4.30	27	0	0.3	0.2	36	700	8
04/05/79	300	4.81	4.31	6	0	0.2	0.2	53	156	5
04/11/79	306	4.81	4.34	10	0	0.1	0.1	48	259	3
04/19/79	314	3.41	4.50	20	0	0.2	0.1	39	368	4
04/26/79	321	2.36	4.31	24	0	0.1	0.1	45	305	1
05/03/79	328	4.81	4.30	28	0	0.2	0.1	52	726	5
05/18/79	343	1.74	4.31	29	0	0.2	0.0	52	272	2
05/24/79	349	3.41	4.19	31	0	0.6	0.3	51	570	11
05/31/79	356	7.62	4.21	36	0	0.2	0.1	58	1479	8
06/07/79	363	4.39	4.36	47	0	0.3	0.2	83	1112	7
06/22/79	378	1.74	4.39	45	0	0.1	0.0	56	422	1
06/28/79	384	1.74	4.38	33	0	0.6	0.3	59	309	6

WATER QUALITY DATA --- CATAWISSA CREEK
 SL-135-11
 TC-3

SAMPLING DATE	TIME days	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l
06/09/78	0	4.39	12	0	0.5	0.2	27
06/15/78	7	4.49	31	0	0.3	0.3	32
06/21/78	13	4.77	23	2	0.3	0.3	37
06/28/78	20	4.43	22	0	0.4	0.3	39
07/06/78	28	4.55	21	0	0.2	0.2	46
07/12/78	34	4.52	23	0	0.1	0.0	50
07/19/78	41	4.48	27	0	0.2	0.1	57
07/26/78	48	4.47	25	0	0.1	0.1	45
08/02/78	55	4.46	25	0	0.2	0.0	51
08/09/78	62	4.33	27	0	0.2	0.2	47
08/15/78	68	4.70	31	0	0.3	0.2	55
08/23/78	76	4.98	34	4	0.2	0.2	62
08/30/78	83	5.02	26	4	0.3	0.3	54
09/07/78	91	4.22	36	0	0.2	0.2	65
09/13/78	97	4.10	31	0	0.2	0.1	62
09/20/78	104	4.31	41	0	0.3	0.2	50
09/27/78	111	4.48	31	0	0.3	0.3	62
10/04/78	118	4.50	26	0	0.2	0.1	19
10/12/78	126	4.31	37	0	0.1	0.1	53
10/18/78	132	4.32	27	0	0.1	0.1	41
10/25/78	139	4.16	23	0	0.1	0.1	38
11/02/78	147	4.62	25	2	0.1	0.1	56
11/15/78	160	4.02	31	0	0.2	0.1	57
11/23/78	168	4.62	17	0	0.1	0.1	36
11/28/78	173	4.55	23	0	0.1	0.0	40
12/06/78	181	4.52	18	0	0.1	0.0	36
12/13/78	188	4.49	21	0	0.1	0.0	36
12/20/78	195	4.46	19	0	0.1	0.0	36
12/28/78	203	4.47	22	0	0.1	0.0	28
01/04/79	210	4.49	22	0	0.1	0.1	31
01/10/79	216	4.34	22	0	0.1	0.0	36
01/18/79	224	4.37	22	0	0.1	0.1	38
01/24/79	230	4.44	19	0	0.1	0.1	31
01/31/79	237	4.38	21	0	0.1	0.1	42
02/07/79	244	4.21	10	0	0.0	0.0	39
02/15/79	252	4.50	27	0	0.1	0.1	46
02/20/79	257	4.43	23	0	0.1	0.1	44
02/27/79	264	4.41	2	0	0.2	0.2	39
03/06/79	271	4.34	24	0	0.1	0.1	36
03/14/79	279	4.48	22	0	0.1	0.1	42
03/21/79	286	4.60	19	2	0.1	0.1	43
03/28/79	293	4.50	18	0	0.1	0.1	38
04/04/79	300	4.50	18	0	0.1	0.1	35
04/12/79	308	4.55	17	0	0.0	0.0	39
04/18/79	314	4.50	20	0	0.3	0.2	34
04/25/79	321	4.48	20	0	0.2	0.1	35
05/02/79	328	4.54	36	7	0.4	0.3	38
05/17/79	343	4.53	36	6	0.3	0.1	39
05/23/79	349	4.50	35	0	1.4	1.1	48
05/30/79	356	4.44	38	0	0.2	0.2	40
06/06/79	363	4.50	37	0	0.2	0.1	61
06/21/79	378	4.45	36	0	1.0	0.6	67
06/27/79	384	4.46	58	0	0.1	0.1	69

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
TC-2

SAMPLING DATE	TIME days	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	S04 mg/l
06/09/78	0	4.28	20	0	0.5	0.2	39
06/15/78	7	4.40	32	0	0.2	0.2	36
06/21/78	13	4.73	23	2	0.2	0.2	38
06/28/78	20	4.45	24	0	1.3	1.3	46
07/06/78	28	4.50	20	0	0.2	0.2	53
07/20/78	42	4.43	25	0	0.1	0.1	57
07/27/78	49	4.45	20	0	0.1	0.1	50
08/03/78	56	4.40	20	0	1.1	0.8	48
08/10/78	63	4.33	29	0	0.5	0.4	47
08/15/78	68	4.62	29	0	0.0	0.0	58
08/24/78	77	4.91	53	4	0.3	0.2	63
08/31/78	84	4.99	32	4	0.5	0.5	54
09/07/78	91	4.19	38	0	0.5	0.4	78
09/14/78	98	4.00	35	0	0.2	0.2	65
09/21/78	105	4.22	41	0	1.0	0.8	55
09/28/78	112	4.40	34	0	0.9	0.7	77
10/05/78	119	4.35	36	0	0.5	0.5	32
10/12/78	126	4.21	50	0	0.2	0.2	62
10/19/78	133	4.22	37	0	0.1	0.1	56
10/26/78	140	4.09	33	0	0.3	0.2	58
11/02/78	147	4.48	43	0	0.2	0.2	73
11/16/78	161	4.32	42	0	0.2	0.2	61
11/27/78	172	4.46	23	0	0.9	0.8	54
12/07/78	182	4.46	23	0	0.9	0.8	43
12/14/78	189	4.52	30	2	0.2	0.1	43
12/21/78	196	4.49	23	0	0.1	0.1	20
12/27/78	202	4.50	20	0	0.2	0.1	39
01/03/79	209	4.50	21	0	0.2	0.1	26
01/11/79	217	4.35	22	0	0.0	0.0	37
01/17/79	223	4.39	22	0	0.2	0.0	36
01/23/79	229	4.46	18	0	0.3	0.2	29
02/01/79	238	4.42	34	0	0.2	0.1	42
02/08/79	245	4.18	22	0	0.0	0.0	47
02/14/79	251	4.54	24	6	0.1	0.1	47
02/21/79	258	4.42	28	0	0.2	0.2	47
02/26/79	263	4.39	24	0	0.3	0.2	35
03/08/79	273	4.33	24	0	0.3	0.2	39
03/15/79	280	4.43	42	0	0.2	0.2	45
03/22/79	287	4.50	22	0	0.1	0.0	40
03/29/79	294	4.47	23	0	0.3	0.3	43
04/05/79	301	4.94	14	8	0.3	0.3	32
04/12/79	308	4.58	19	1	0.2	0.2	39
04/19/79	315	4.44	20	0	0.2	0.1	35
04/25/79	321	4.48	20	0	0.1	0.1	35
05/02/79	328	4.49	23	0	0.2	0.2	40
05/16/79	342	4.50	20	0	0.2	0.2	42
05/23/79	349	4.47	19	0	1.3	1.0	49
05/30/79	356	4.60	18	5	0.3	0.1	39
06/07/79	364	4.47	35	6	0.4	0.3	63
06/18/79	375	4.73	22	8	0.9	0.6	72
06/28/79	385	4.30	39	0	0.2	0.1	78

WATER QUALITY DATA --- CATAWISSA CREEK
SL-135-11
TC-1

SAMPLING DATE	TIME days	FLOW cfs	pH	ACID. mg/l	ALKA. mg/l	TOT. IRON mg/l	FE++ IRON mg/l	SO4 mg/l	ACID LOAD lbs./day	IRON LOAD
06/09/78	0		5.00	12	4	0.6	0.2	27		
06/15/78	7		4.99	16	3	0.1	0.1	27		
06/21/78	13	28.6	5.19	16	6	0.2	0.2	34	2469	31
06/28/78	20	16.3	5.73	17	10	0.2	0.2	44	1496	18
07/09/78	31	12.6	4.71	19	0	0.4	0.4	41	1291	27
07/12/78	34	10.5	4.40	17	0	0.0	0.0	43	968	0
07/20/78	42	7.5	4.70	19	4	0.2	0.0	39	776	8
07/27/78	49	8.1	5.05	10	7	0.1	0.1	38	438	4
08/03/78	56	13.7	5.12	9	9	3.9	3.8	40	666	288
08/10/78	63	10.7	4.70	19	4	0.1	0.1	40	1099	6
08/17/78	70	6.7	5.00	19	2	0.1	0.1	44	690	4
08/24/78	77	6.3	5.22	24	6	0.1	0.1	54	827	3
08/31/78	84	11.0	5.39	17	4	0.4	0.4	47	1012	24
09/03/78	87		4.58	17	0	0.2	0.2	54		
09/14/78	98	7.4	4.31	19	0	0.1	0.0	54	763	4
09/21/78	105	21.0	4.80	12	2	0.3	0.2	45	1364	34
09/28/78	112	6.2	4.82	19	2	0.4	0.4	65	637	13
10/05/78	119	30.8	4.85	19	2	0.6	0.6	34	3164	100
10/19/78	133	9.8	4.50	25	0	0.3	0.3	53	1332	16
10/26/78	140		4.68	16	3	0.3	0.3	41		
11/16/78	161	7.5	4.11	25	0	0.3	0.2	61	1019	12
11/27/78	172	9.8	4.93	13	0	0.4	0.3	47	693	21
12/07/78	182	18.2	4.99	14	0	0.4	0.3	36	1375	39
12/14/78	189	24.8	4.88	14	6	0.2	0.2	38	1873	27
12/21/78	196	21.4	4.86	14	4	0.1	0.0	36	1617	12
12/28/78	203		4.90	16	5	0.1	0.1	16		
01/04/79	210		4.88	15	5	0.1	0.1	18		
01/11/79	217	44.3	4.89	14	4	0.0	0.0	31	3348	0
01/18/79	224		4.91	18	3	0.2	0.0	36		
01/23/79	229	48.4	4.89	14	8	0.4	0.3	27	3659	105
02/01/79	238		4.97	18	4	0.1	0.0	60		
02/08/79	245		4.49	18	0	0.0	0.0	36		
02/15/79	252		5.10	21	22	0.1	0.1	43		
02/21/79	258		5.45	8	8	0.1	0.0	50		
02/26/79	263	46.8	4.87	18	2	0.2	0.2	31	4548	51
03/08/79	273	63.9	4.75	20	2	0.3	0.2	50	6889	103
03/15/79	280	46.4	5.03	18	5	0.2	0.1	41	4502	50
03/22/79	287	22.2	4.94	17	3	0.1	0.1	44	2039	12
03/29/79	294	34.5	4.88	17	2	0.3	0.3	36	3166	56
04/05/79	301	59.3	4.94	14	8	0.3	0.3	32	4476	96
04/11/79	307	34.6	5.12	12	3	0.3	0.3	39	2240	56
04/19/79	315	22.0	5.08	16	6	0.1	0.1	32	1898	12
04/26/79	322	30.8	4.93	18	3	0.2	0.1	34	2997	33
05/03/79	329	27.2	4.91	17	8	0.3	0.2	32	2498	44
05/17/79	343		4.86	18	6	0.0	0.0	28		
05/24/79	350		5.46	10	6	0.4	0.2	30		
05/30/79	356		5.09	10	8	0.2	0.1	32		
06/07/79	364	20.8	4.90	35	5	0.3	0.3	56	3931	34
06/18/79	375	30.8	4.35	37	0	0.2	0.1	62	6154	33
06/28/79	385	9.8	4.82	40	3	0.1	0.0	73	2113	5