

WATER QUALITY TEST DATA

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SAMPLE LOCATION 5901

JOHNSON RUN

DRAINAGE AREA

373.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	3.70	32.0	14.0	0.0	80.	1.79		0.82	141.
11	29	68	4.00	27.0	10.0	0.0	86.	0.28		1.02	149.
12	11	68	3.85	25.0	15.0	0.0	56.	0.91		0.49	66.
12	21	68	3.90	21.0	5.7	0.0	45.	0.23		0.30	33.
1	8	69	4.00	21.0	3.4	0.0	45.	0.86		0.34	39.
1	14	69	4.05	18.0	3.4	0.0	48.	0.70		0.20	19.
1	24	69	3.80	33.0	13.0	0.0	57.	1.79		1.31	233.
2	4	69	4.05	20.0	1.0	0.0	44.	0.71		1.02	110.
2	12	69	4.35	20.0	6.0	0.0	48.	0.28	1.2	0.34	37.
2	25	69	4.25	21.0	4.0	0.0	53.	0.63		0.16	18.
3	7	69	4.10	19.0	7.0	0.0	51.	1.24	0.8	0.10	10.
3	20	69	3.75	26.0	14.0	0.0	57.	3.76		0.57	80.
3	21	69	3.75	31.0	14.0	0.0	64.	1.79	1.0	1.60	267.
4	2	69	3.80	31.0	18.0	0.0	57.	4.32	0.6	2.54	425.
4	17	69	4.05	21.0	8.0	0.0	41.	0.42	0.5	0.53	60.
4	19	69	4.10	24.0	11.0	0.0	50.	0.42		0.82	106.
4	30	69	4.05	20.0	9.5	0.0	46.	0.24		0.49	53.
5	15	69	3.90	21.0	14.0	0.0	52.	2.44		0.57	65.
6	13	69	3.60	23.0	16.0	0.0	56.	1.79		0.07	9.
6	27	69	3.75	25.0	15.0	0.0	58.	1.32		0.08	11.
7	24	69	3.40	58.0	35.0	0.0	84.	4.42	1.6	0.05	17.
8	17	69	3.40	47.0	25.0	0.0	103.	4.79		0.13	32.
9	5	69	3.50	46.0	21.0	0.0	107.	4.51		0.04	10.
10	9	69	3.70	36.0	18.0	0.0	82.	4.61		0.02	5.
10	24	69	3.85	26.0	14.5	0.0	84.	4.98		0.03	4.
11	19	69	4.00	38.0	20.0	0.0	95.	2.40		1.11	227.
12	18	69	4.20	25.0	13.0	0.0	49.	1.17		0.33	45.

MINIMUM 18.0
 MAXIMUM 58.0
 AVERAGE 28.0

1.0 0.0 41.
 35.0 0.0 107.
 12.9 0.0 63.

0.23
 4.98
 1.96

AP 4

SAMPLE LOCATION 5902
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 12.6 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	3.30	380.0	100.0	0.0	1700.	12.22	72.0	0.06	120.
11	28	68	3.50	460.0	61.0	0.0	2100.	13.16	69.0	0.04	109.
12	11	68	3.60	430.0	32.0	0.0	2000.	2.35	83.0	0.04	81.
12	21	68	3.40	505.0	74.0	0.0	2493.	1.17	80.0	0.02	57.
1	8	69	3.45	385.0	68.0	0.0	1719.	3.01	64.0	0.02	51.
1	14	69	3.50	430.0	84.0	0.0	1934.	3.38	32.	0.01	32.
1	24	69	3.00	505.0	230.0	0.0	1332.	20.68	254.	0.09	254.
2	4	69	3.50	310.0	67.0	0.0	1203.	3.95	122.	0.07	122.
2	12	69	3.70	290.0	115.0	0.0	1203.	2.91	54.0	0.02	38.
2	25	69	3.10	700.0	220.0	0.0	1590.	17.86	46.0	0.01	43.
3	7	69	3.20	580.0	220.0	0.0	1676.	11.28	50.0	0.01	23.
3	20	69	3.35	375.0	110.0	0.0	1547.	4.61	83.	0.04	83.
3	21	69	3.20	760.0	160.0	0.0	1461.	13.16	49.0	0.11	466.
4	2	69	3.00	630.0	200.0	0.0	1160.	35.72	39.0	0.18	614.
4	17	69	3.55	780.0	250.0	0.0	1633.	10.34	55.0	0.04	159.
4	19	69	3.25	610.0	300.0	0.0	859.	10.34	192.	0.06	192.
4	30	69	3.60	430.0	225.0	0.0	1891.	2.35	58.0	0.04	81.
5	15	69	3.50	455.0	245.0	0.0	1805.	2.54	100.	0.04	100.
6	13	69	3.60	420.0	170.0	0.0	2020.	3.76	11.	0.00	11.
6	26	69	3.50	89.0	51.0	0.0	425.	3.85	3.	0.01	3.
7	24	69	3.55	524.0	158.0	0.0	1719.	5.08	68.0	0.00	11.
8	17	69	3.45	480.0	130.0	0.0	1504.	6.02	23.	0.01	23.
9	5	69	3.40	470.0	112.0	0.0	2664.	5.08	7.	0.00	7.
10	9	69	3.50	465.0	210.0	0.0	1444.	3.95	4.	0.00	4.
10	24	69	3.40	602.0	280.0	0.0	1762.	6.96	7.	0.00	7.
11	19	69	3.20	698.0	147.0	0.0	1289.	11.75	296.	0.08	296.

MINIMUM	3.00	89.0	32.0	0.0	425.	1.17
MAXIMUM	3.70	780.0	300.0	0.0	2664.	35.72
AVERAGE	3.40	490.9	154.6	0.0	1621.	8.36

SAMPLE LOCATION 5903
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 180.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD	
11	20	68	3.05	275.0	120.0	0.0	1650.	20.68	49.0	1.06	1571.	
11	28	68	3.25	265.0	120.0	0.0	1950.	36.66	54.0	0.79	1135.	
12	11	68	3.20	405.0	100.0	0.0	2650.	20.68	61.0	0.64	1388.	
12	21	68	3.00	395.0	90.0	0.0	1891.	26.32	68.0	0.38	812.	
1	8	69	3.20	415.0	105.0	0.0	1461.	13.16	62.0	0.45	996.	
1	14	69	3.10	365.0	105.0	0.0	1848.	21.62	500.	0.25	500.	
1	24	69	3.10	360.0	195.0	0.0	1139.	30.08	3290.	1.70	3290.	
2	4	69	3.10	380.0	170.0	0.0	1375.	38.54	2713.	1.32	2713.	
2	12	69	3.35	510.0	260.0	0.0	1203.	43.24	1223.	0.45	1223.	
2	25	69	3.00	475.0	235.0	0.0	1676.	34.78	47.0	0.21	529.	
3	7	69	3.00	480.0	215.0	0.0	1633.	28.20	51.0	0.13	343.	
3	20	69	3.10	330.0	130.0	0.0	1186.	20.68	1319.	0.74	1319.	
3	21	69	3.20	360.0	110.0	0.0	1246.	21.62	31.0	2.07	4009.	
4	2	69	3.05	325.0	120.0	0.0	739.	22.56	19.0	3.28	5754.	
4	17	69	3.20	590.0	190.0	0.0	1160.	18.80	37.0	0.69	2190.	
4	19	69	3.20	520.0	190.0	0.0	1203.	18.80	46.0	1.06	2970.	
4	30	69	3.20	590.0	180.0	0.0	1418.	20.68	2022.	0.64	2022.	
5	15	69	3.25	450.0	165.0	0.0	1418.	22.56	1799.	0.74	1799.	
5	29	69	3.15	530.0	178.0	0.0	1504.	14.10	44.0	0.34	984.	
6	13	69	3.20	475.0	155.0	0.0	1547.	13.16	231.	0.09	231.	
6	26	69	3.15	359.0	175.0	0.0	1805.	17.86	205.	0.11	205.	
7	24	69	3.15	482.0	115.0	0.0	1547.	15.98	179.	0.07	179.	
8	17	69	3.10	505.0	165.0	0.0	1504.	17.86	447.	0.16	447.	
9	5	69	3.15	610.0	270.0	0.0	1590.	20.68	172.	0.05	172.	
10	9	69	3.15	625.0	205.0	0.0	1547.	14.57	107.	0.03	107.	
10	24	69	3.25	655.0	175.0	0.0	1633.	12.22	135.	0.04	135.	
11	19	69	3.20	405.0	98.0	0.0	1186.	10.62	3123.	1.43	3123.	
12	18	69	3.15	607.0	134.0	0.0	1504.	14.01	1404.	0.43	1404.	
				MINIMUM	265.0	90.0	0.0	739.	10.62			
				MAXIMUM	655.0	270.0	0.0	2650.	43.24			
				AVERAGE	455.1	159.6	0.0	1508.	21.81			

ABT 6

SAMPLE LOCATION 5904
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 22.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
2	4	69	3.35	102.0	65.0	0.0	679.	15.98		0.16	89.
2	12	69	3.35	160.0	98.0	0.0	1100.	42.30	28.0	0.05	47.
2	25	69	3.05	180.0	105.0	0.0	1461.	36.66	32.0	0.03	25.
3	7	69	2.95	240.0	195.0	0.0	1246.	51.70	27.0	0.02	21.
3	20	69	3.10	175.0	110.0	0.0	945.	29.14		0.09	86.
3	21	69	3.20	170.0	94.0	0.0	799.	22.56	16.0	0.25	231.
4	2	69	3.25	80.0	50.0	0.0	593.	7.05	8.5	0.40	173.
4	17	69	3.20	160.0	105.0	0.0	817.	25.38	23.0	0.08	73.
4	19	69	3.15	305.0	165.0	0.0	791.	25.38		0.13	213.
4	30	69	3.15	135.0	105.0	0.0	817.	24.44	20.0	0.08	57.
5	15	69	3.20	146.0	99.0	0.0	851.	19.74		0.09	71.
6	13	69	3.05	210.0	175.0	0.0	1031.	38.54		0.01	12.
7	24	69	3.10	210.0	130.0	0.0	1117.	30.08	27.0	0.01	10.
8	17	69	3.05	232.0	162.0	0.0	1117.	39.48		0.02	25.
9	5	69	3.10	310.0	175.0	0.0	1289.	29.14		0.01	11.
10	9	69	3.15	320.0	165.0	0.0	1074.	1.32		0.00	7.
10	24	69	3.20	235.0	118.0	0.0	1117.	1.41		0.00	6.
11	19	69	3.20	185.0	108.0	0.0	937.	1.20		0.17	174.

AB-7

MINIMUM	80.0	50.0	0.0	593.	1.20
MAXIMUM	320.0	195.0	0.0	1461.	51.70
AVERAGE	197.5	123.6	0.0	988.	24.53

SAMPLE LOCATION 5905
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 79.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
2	12	69	4.05	88.0	19.0	0.0	524.	0.85	27.0	0.20	93.
2	25	69	3.70	130.0	32.0	0.0	559.	0.65	21.0	0.09	64.
3	7	69	3.70	130.0	52.0	0.0	731.	0.70	26.0	0.06	41.
3	20	69	3.80	70.0	19.0	0.0	533.	1.97		0.33	123.
3	21	69	3.85	92.0	18.0	0.0	413.	0.75	14.0	0.91	450.
4	2	69	3.85	48.0	12.0	0.0	241.	0.70	8.0	1.44	373.
4	17	69	3.85	78.0	23.0	0.0	395.	0.66	17.0	0.30	127.
4	19	69	3.90	65.0	19.0	0.0	387.	0.66		0.47	163.
4	30	69	3.90	57.0	24.0	0.0	413.	0.61	2.3	0.28	86.
5	15	69	3.85	64.0	27.0	0.0	438.	0.69		0.33	112.
6	13	69	3.50	105.0	38.0	0.0	511.	1.03		0.04	22.
7	24	69	3.75	81.0	29.0	0.0	541.	1.41		0.03	13.
8	17	69	3.35	115.0	49.0	0.0	507.	6.67		0.07	45.
9	5	69	3.30	128.0	61.0	0.0	619.	6.49		0.02	16.
10	9	69	3.70	135.0	68.0	0.0	520.	1.27		0.01	10.
10	24	69	3.60	118.0	52.0	0.0	550.	2.21		0.02	11.
11	19	69	3.65	88.0	24.0	0.0	520.	1.24		0.63	298.

MINIMUM
 MAXIMUM
 AVERAGE

3.30
 4.05
 3.72
 48.0
 135.0
 93.6
 12.0
 68.0
 33.3
 0.0
 0.0
 0.0
 241.
 731.
 494.
 0.61
 6.67
 1.68

SAMPLE LOCATION 5906
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 27.0 ACRES

MO. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11 20 68	3.45	75.0	27.0	0.0	490.	5.08	13.0	0.17	69.
11 28 68	3.60	54.0	23.0	0.0	410.	1.50	9.0	0.13	37.
12 11 68	3.60	55.0	16.0	0.0	455.	1.22	9.0	0.10	30.
12 21 68	3.40	60.0	26.0	0.0	623.	1.64		0.06	20.
1 24 69	3.60	43.0	19.0	0.0	249.	2.82		0.27	63.
2 4 69	3.65	38.0	16.0	0.0	249.	2.07		0.21	43.
2 12 69	3.65	58.0	28.0	0.0	378.	3.76	11.0	0.07	22.
2 25 69	3.25	94.0	36.0	0.0	627.	5.55	12.0	0.03	17.
3 7 69	3.15	110.0	56.0	0.0	774.	7.61	17.0	0.02	13.
3 20 69	3.50	56.0	30.0	0.0	421.	5.08		0.12	36.
3 21 69	3.60	50.0	22.0	0.0	352.	2.91	6.5	0.33	89.
4 2 69	3.60	41.0	18.0	0.0	292.	2.26	13.0	0.53	116.
4 17 69	3.60	54.0	28.0	0.0	378.	1.83		0.11	32.
4 19 69	3.35	120.0	61.0	0.0	344.	1.83		0.17	110.
4 30 69	3.50	54.0	29.0	0.0	352.	2.26	8.6	0.10	30.
5 15 69	3.60	44.0	28.0	0.0	370.	1.69		0.12	28.
6 13 69	3.35	123.0	54.0	0.0	340.	1.97		0.01	10.
6 27 69	3.40	152.0	66.0	0.0	533.	1.83		0.02	14.
7 24 69	3.30	90.0	44.0	0.0	559.	6.39		0.01	5.
8 17 69	3.20	149.0	68.0	0.0	520.	4.70	37.0	0.03	21.
9 5 69	3.30	152.0	71.0	0.0	619.	4.51		0.01	7.
10 9 69	3.25	280.0	85.0	0.0	494.	4.32		0.01	8.
10 24 69	3.40	82.0	40.0	0.0	499.	3.71		0.01	3.
11 19 69	3.55	72.0	31.5	0.0	374.	2.56		0.23	89.
MINIMUM	3.15	38.0	16.0	0.0	249.	1.22			
MAXIMUM	3.65	280.0	85.0	0.0	774.	7.61			
AVERAGE	3.45	87.8	38.4	0.0	446.	3.30			

AB-9

SAMPLE LOCATION 5907
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 93.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	3.50	105.0	31.0	0.0	1300.	4.42	26.0	0.55	310.
11	28	68	3.75	94.0	24.0	0.0	1150.	1.74	21.0	0.41	208.
12	11	68	3.45	145.0	36.0	0.0	2200.	2.68	42.0	0.33	257.
12	21	68	3.35	145.0	45.0	0.0	1934.	2.96	46.0	0.20	154.
1	24	69	3.60	115.0	26.0	0.0	795.	1.97		0.88	543.
2	4	69	3.60	230.0	34.0	0.0	2106.	2.91		0.68	848.
2	12	69	3.65	215.0	53.0	0.0	1977.	4.61	52.0	0.23	266.
2	25	69	3.30	325.0	74.0	0.0	2063.	5.17	48.0	0.11	187.
3	7	69	3.30	375.0	105.0	0.0	2106.	6.02	29.0	0.07	138.
3	20	69	3.40	225.0	64.0	0.0	1719.	4.04		0.38	465.
3	21	69	3.55	185.0	34.0	0.0	1014.	3.20	2.1	1.07	1065.
4	2	69	3.55	110.0	220.0	0.0	541.	1.60	3.5	1.70	1006.
4	17	69	3.60	120.0	30.0	0.0	1891.	1.55	9.0	0.36	230.
4	19	69	3.60	165.0	64.0	0.0	1461.	1.55		0.55	487.
4	30	69	3.60	260.0	93.0	0.0	1805.	3.67	28.0	0.33	460.
5	15	69	3.55	165.0	74.0	0.0	1676.	3.48		0.38	341.
5	29	69	3.35	270.0	94.0	0.0	1934.	3.01	38.0	0.18	259.
6	13	69	3.50	250.0	61.0	0.0	1891.	2.63		0.05	63.
6	27	69	3.55	255.0	58.0	0.0	2106.	3.01		0.05	75.
7	24	69	3.25	206.0	72.0	0.0	1547.	3.95		0.04	40.
8	17	69	3.20	290.0	85.0	0.0	1504.	4.98	37.0	0.08	133.
9	5	69	3.20	318.0	98.0	0.0	1633.	6.30		0.03	46.
10	9	69	3.35	245.0	62.0	0.0	1375.	4.51		0.02	22.
10	24	69	3.35	268.0	78.0	0.0	1590.	5.55		0.02	28.
11	19	69	3.40	182.0	30.5	0.0	945.	2.33		0.74	725.
12	18	69	3.50	288.0	46.0	0.0	1461.	5.17		0.22	344.

MINIMUM 3.20
 MAXIMUM 3.75
 AVERAGE 3.46

24.0
 220.0
 65.1

0.0
 0.0
 0.0

541.
 2200.
 1605.

1.55
 6.30
 3.58

SAMPLE LOCATION 5908
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 288.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	4.25	20.0	6.2	0.0	90.	0.21	2.7	1.47	158.
11	28	68	4.25	18.0	1.6	0.0	87.	0.16	1.8	1.10	107.
12	11	68	4.40	22.0	1.0	0.0	91.	0.13	1.7	0.88	105.
12	21	68	4.25	20.0	4.2	0.0	99.	0.07		0.53	57.
1	24	69	4.25	19.0	4.5	0.0	74.	0.07		2.35	241.
2	4	69	4.25	17.0	3.5	0.0	60.	0.04		1.84	168.
2	12	69	4.50	20.0	2.0	0.0	66.	0.06	1.7	0.62	67.
2	25	69	4.25	22.0	6.0	0.0	107.	0.06		0.29	34.
3	7	69	4.25	21.0	5.5	0.0	90.	0.05	1.6	0.18	21.
3	20	69	4.20	29.0	8.0	0.0	142.	0.06		1.03	161.
3	21	69	4.25	22.0	4.5	0.0	91.	0.05	1.9	2.87	340.
4	2	69	4.15	19.0	5.0	0.0	64.	0.08		4.56	466.
4	17	69	4.30	16.0	7.0	0.0	62.	0.04		0.96	82.
4	19	69	4.25	15.0	5.5	0.0	17.	0.04		1.47	119.
4	30	69	4.20	18.0	8.5	0.0	77.	0.03		0.88	86.
5	15	69	4.20	15.0	6.5	0.0	73.	0.04		1.03	83.
6	13	69	4.55	7.0	1.0	0.0	90.	0.02		0.12	5.
6	26	69	4.55	10.5	1.5	0.0	113.	0.04		0.15	8.
7	24	69	4.20	18.0	5.5	0.0	74.	0.03		0.10	9.
8	17	69	4.40	8.0	1.0	0.0	69.	0.02		0.23	10.
9	5	69	4.45	8.5	1.0	0.0	83.	0.05		0.07	3.
10	9	69	4.45	8.0	1.5	0.0	67.	0.14		0.04	2.
10	24	69	4.10	28.0	7.0	0.0	125.	0.23		0.05	8.
11	19	69	4.35	15.5	7.5	0.0	83.	0.12		1.98	166.

MINIMUM
 MAXIMUM
 AVERAGE

4.10
 4.55
 4.30
 7.0
 29.0
 17.4
 1.0
 8.5
 4.4
 0.0
 0.0
 0.0
 17.
 142.
 83.
 0.02
 0.23
 0.07

SAMPLE LOCATION 5909
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 462.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	3.45	36.0	8.4	0.0	300.	1.22	6.5	1.81	352.
11	28	68	4.25	27.0	4.2	0.0	260.	0.45	5.6	1.36	198.
12	11	68	3.95	48.0	8.8	0.0	440.	0.41	8.3	1.09	281.
12	21	68	3.65	51.0	12.5	0.0	666.	0.59		0.65	179.
1	24	69	4.00	37.0	5.0	0.0	180.	0.50		2.90	579.
2	4	69	3.90	80.0	12.0	0.0	705.	1.03		2.27	977.
2	12	69	3.90	105.0	34.0	0.0	774.	2.35	19.0	0.76	431.
2	25	69	3.60	160.0	58.0	0.0	842.	2.44	19.0	0.35	305.
3	7	69	3.55	129.0	44.0	0.0	988.	3.20	20.0	0.23	158.
3	20	69	3.80	73.0	18.0	0.0	602.	2.07		1.27	499.
3	21	69	4.00	32.0	10.0	0.0	232.	0.90	5.8	3.54	610.
4	2	69	4.10	25.0	8.5	0.0	146.	0.54	3.5	5.62	757.
4	17	69	3.85	110.0	32.0	0.0	318.	1.36		1.18	699.
4	19	69	4.00	43.0	14.0	0.0	284.	1.36		1.81	420.
4	30	69	3.85	68.0	31.0	0.0	774.	1.41	12.0	1.09	399.
5	15	69	3.80	62.0	26.0	0.0	348.	1.79		1.27	424.
6	13	69	3.50	180.0	55.0	0.0	352.	1.55		0.15	150.
6	26	69	3.50	187.0	54.0	0.0	632.	2.63		0.18	183.
7	24	69	3.60	61.0	21.0	0.0	490.	0.68	9.1	0.12	39.
8	17	69	3.35	146.0	51.0	0.0	490.	4.51		0.28	221.
9	5	69	3.25	115.0	70.0	0.0	511.	4.75		0.09	56.
10	9	69	3.65	72.0	31.0	0.0	447.	3.38		0.05	21.
10	24	69	3.65	55.0	23.0	0.0	507.	3.52		0.07	19.
11	19	69	3.90	61.5	24.0	0.0	245.	1.15		2.45	811.
12	18	69	3.80	137.0	16.0	0.0	430.	1.93		0.73	542.

MINIMUM 3.25
 MAXIMUM 4.25
 AVERAGE 3.75

FREE ACID 4.2
 ALK. 0.0
 SO4 146.
 TOTAL IRON 0.41
 MN 4.75
 FLOW 479.
 ACID PPD 1.83

AB-12

SAMPLE LOCATION 5910

JOHNSON RUN

DRAINAGE AREA 2387.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	28	68	3.95	48.0	12.0	0.0	240.	2.07		6.32	1636.
12	11	68	3.70	65.0	12.0	0.0	380.	1.73		5.06	1772.
12	21	68	3.55	67.0	18.0	0.0	335.	0.39		3.04	1096.
1	14	69	3.65	68.0	19.0	0.0	421.	4.23		2.02	742.
1	24	69	3.80	41.0	12.0	0.0	135.	1.32		13.49	2981.
2	4	69	3.65	61.0	24.0	0.0	241.	3.67		10.54	3465.
2	12	69	3.70	100.0	33.0	0.0	292.	6.11	8.4	3.54	1909.
2	25	69	3.45	96.0	26.0	0.0	374.	4.61	9.2	1.64	851.
3	7	69	3.60	69.0	39.0	0.0	387.	5.08	12.0	1.05	392.
3	20	69	3.60	66.0	24.0	0.0	395.	5.17		5.90	2100.
3	21	69	3.65	57.0	21.0	0.0	228.	3.20	6.0	16.44	5051.
4	2	69	3.75	34.0	15.0	0.0	146.	2.26	5.2	26.14	4790.
4	17	69	3.70	74.0	36.0	0.0	284.	2.73	8.4	5.48	2186.
4	19	69	3.85	32.0	17.0	0.0	159.	2.73		8.43	1454.
4	30	69	3.80	64.0	33.0	0.0	275.	2.73	6.3	5.06	1745.
5	15	69	3.75	62.0	28.0	0.0	288.	2.54		5.90	1972.
6	13	69	3.40	145.0	51.0	0.0	284.	2.16		0.72	560.
6	26	69	3.45	112.0	50.0	0.0	572.	1.97		0.84	509.
7	24	69	3.55	73.0	26.0	0.0	318.	2.40	8.0	0.55	216.
8	17	69	3.30	121.0	65.0	0.0	309.	5.08		1.31	852.
9	5	69	3.30	105.0	43.0	0.0	348.	3.95		0.42	236.
10	9	69	3.55	88.0	37.0	0.0	305.	3.71		0.25	120.
10	24	69	3.65	112.0	32.0	0.0	335.	3.20		0.30	183.
11	19	69	3.85	62.0	31.0	0.0	228.	2.89		11.38	3804.
12	18	69	3.80	96.5	24.0	0.0	275.	3.10		3.41	1776.

AB-13

MINIMUM	MAXIMUM	AVERAGE
3.30	3.95	3.64
32.0	145.0	76.7
12.0	65.0	29.1
0.0	0.0	0.0
135.	572.	302.
0.39	6.11	3.16

SAMPLE LOCATION 5911
 JOHNSON RUN
 DRAINAGE AREA 5319.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
1	24	69	4.05	25.0	6.5	0.0	112.	0.57		33.40	4501.
3	7	69	3.90	48.0	20.0	0.0	301.	1.02	7.2	2.61	675.
6	13	69	3.95	65.0	29.0	0.0	219.	0.61		1.77	622.
9	6	69	3.60	62.0	25.0	0.0	268.	2.02		2.40	802.
11	19	69	4.00	40.5	11.5	0.0	213.	0.71		28.18	6152.

MINIMUM	3.60	25.0	6.5	0.0	112.	0.57
MAXIMUM	4.05	65.0	29.0	0.0	301.	2.02
AVERAGE	3.90	48.1	18.4	0.0	223.	0.99

SAMPLE LOCATION 5912
 WEST BRANCH SWAMP CREEK
 DRAINAGE AREA 147.0 ACRES

MO.	DAY	YR.	TOTAL ACID MG/L	PH	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	1100.0	2.80	810.0	0.0	1330.	45.12		0.69	4062.
12	11	68	1100.0	2.60	695.0	0.0	1650.	319.60		0.33	1950.
12	21	68	720.0	2.65	500.0	0.0	705.	183.30		0.20	766.
1	24	69	370.0	2.85	185.0	0.0	266.	67.68		0.88	1749.
2	4	69	540.0	2.80	360.0	0.0	524.	136.30		0.69	1994.
2	12	69	530.0	3.30	380.0	0.0	400.	98.70	2.5	0.23	658.
2	25	69	490.0	2.95	320.0	0.0	559.	117.50	2.2	0.11	282.
3	7	69	620.0	2.80	370.0	0.0	713.	98.70	1.8	0.07	229.
3	20	69	320.0	3.00	240.0	0.0	327.	77.08		0.38	662.
3	21	69	440.0	2.95	190.0	0.0	473.	95.88	1.3	1.07	2535.
4	2	69	270.0	3.05	205.0	0.0	266.	60.16	1.3	1.70	2473.
4	17	69	740.0	2.80	580.0	0.0	627.	108.10	1.0	0.36	1421.
4	19	69	340.0	3.00	250.0	0.0	331.	108.10		0.55	1004.
4	30	69	1010.0	3.25	770.0	0.0	988.	263.20	3.5	0.33	1790.
5	15	69	990.0	2.80	820.0	0.0	817.	244.40		0.38	2047.
6	13	69	170.0	3.05	123.0	0.0	172.	39.48		0.05	43.
6	27	69	320.0	3.00	210.0	0.0	456.	62.98		0.05	95.
7	24	69	372.0	2.85	290.0	0.0	408.	83.66	2.2	0.04	71.
9	5	69	1450.0	2.80	950.0	0.0	2063.	258.50		0.03	212.
10	8	69	1840.0	2.70	1210.0	0.0	1805.	305.50		0.02	228.
10	24	69	465.0	3.10	285.0	0.0	533.	136.30		0.02	49.
11	19	69	380.0	3.15	197.0	0.0	374.	87.42		0.74	1515.
12	18	69	1598.0	2.95	1010.0	0.0	1375.	385.40		0.22	1912.

MINIMUM	2.60	170.0	123.0	0.0	172.	39.48
MAXIMUM	3.30	1840.0	1210.0	0.0	2063.	385.40
AVERAGE	2.92	703.3	476.1	0.0	746.	147.09

SAMPLE LOCATION 5913
 EAST BRANCH SWAMP CREEK
 DRAINAGE AREA 50.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	3.45	70.0	30.0	0.0	160.	2.26		0.10	37.80
11	29	68	3.50	133.0	69.0	0.0	260.	3.38	3.8	0.13	89.60
1	14	69	3.65	58.0	15.0	0.0	112.	0.74		0.02	7.60
1	24	69	3.65	53.0	22.0	0.0	81.	4.70		0.16	45.80
2	4	69	3.45	121.0	62.0	0.0	202.	13.16		0.13	81.60
2	12	69	3.65	96.0	27.0	0.0	301.	6.11	2.7	0.04	21.80
2	25	69	3.25	104.0	35.0	0.0	189.	6.86	4.5	0.02	11.00
3	7	69	3.45	62.0	32.0	0.0	133.	4.98	2.8	0.01	4.20
3	20	69	3.50	61.0	38.0	0.0	103.	3.48		0.07	23.00
3	21	69	3.60	62.0	32.0	0.0	90.	1.50	2.7	0.20	65.20
4	2	69	3.75	45.0	22.0	0.0	72.	3.29	1.6	0.31	75.20
4	17	69	3.10	185.0	130.0	0.0	189.	8.84	3.7	0.07	64.80
4	19	69	3.35	130.0	79.0	0.0	159.	8.84		0.10	70.20
4	30	69	3.20	185.0	125.0	0.0	241.	17.86	4.0	0.06	59.80
5	15	69	3.20	130.0	105.0	0.0	155.	6.58		0.07	49.00
7	24	69	2.95	289.0	187.0	0.0	361.	18.33		0.01	10.20
9	5	69	3.20	175.0	120.0	0.0	262.	22.56		0.00	4.60
10	8	69	3.15	192.0	43.0	0.0	297.	24.44		0.00	4.40
10	24	69	3.45	98.0	46.0	0.0	254.	14.29		0.00	2.00
11	19	69	3.40	95.5	42.0	0.0	206.	8.18		0.00	69.60
12	18	69	3.30	232.0	140.0	0.0	297.	31.96		0.14	50.60
MINIMUM				45.0	15.0	0.0	72.	0.74			
MAXIMUM				289.0	187.0	0.0	361.	31.96			
AVERAGE				122.7	66.7	0.0	196.	10.11			

SAMPLE LOCATION 5914
 WEST BRANCH SWAMP CREEK
 DRAINAGE AREA 783.0 ACRES

MO. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11 28 68	3.05	205.0	130.0	0.0	335.	24.44	6.2	1.61	1783.
12 11 68	3.05	190.0	92.0	0.0	450.	26.32	21.0	1.29	1322.
12 21 68	3.10	150.0	58.0	0.0	340.	14.10		0.77	626.
1 14 69	3.35	135.0	40.0	0.0	387.	7.05		0.52	376.
1 24 69	3.45	71.0	36.0	0.0	107.	12.22		3.44	1317.
2 4 69	3.50	91.0	42.0	0.0	232.	10.34		2.69	1319.
2 12 69	3.75	120.0	32.0	0.0	258.	4.32	20.0	0.90	584.
2 25 69	3.35	140.0	37.0	0.0	550.	8.74	16.0	0.42	317.
3 7 69	3.20	145.0	58.0	0.0	365.	6.30	19.0	0.27	210.
3 21 69	3.55	74.0	38.0	0.0	120.	9.02	5.5	4.19	1673.
4 1 69	3.60	41.0	23.0	0.0	82.	5.17	2.8	1.51	333.
4 17 69	3.05	240.0	180.0	0.0	292.	27.26	7.0	1.40	1809.
4 19 69	3.35	95.0	61.0	0.0	163.	5.83		2.15	1101.
4 30 69	3.45	105.0	57.0	0.0	266.	5.83	6.0	1.29	730.
5 15 69	3.40	82.0	47.0	0.0	241.	7.33		1.51	666.
5 29 69	3.50	92.0	42.0	0.0	288.	1.41	17.0	0.70	347.
6 13 69	3.45	80.0	38.0	0.0	266.	2.54		0.18	79.
6 26 69	3.35	80.0	33.0	0.0	382.	9.40		0.22	93.
7 24 69	3.25	100.0	60.0	0.0	262.	4.61	13.0	0.14	75.
8 17 69	3.35	105.0	40.0	0.0	236.	1.50		0.33	189.
9 5 69	3.35	115.0	42.0	0.0	275.	2.54		0.11	66.
10 8 69	3.00	210.0	132.0	0.0	258.	3.85		0.09	102.
10 24 69	3.30	202.0	105.0	0.0	288.	4.61		0.08	84.
11 19 69	3.25	145.0	62.0	0.0	249.	7.94		2.90	2270.
12 18 69	3.05	235.0	134.0	0.0	361.	14.76		0.87	1103.

AB-17

MINIMUM	MAXIMUM	AVERAGE
3.00	3.75	3.32
41.0	240.0	129.9
23.0	180.0	64.8
0.0	0.0	0.0
82.	550.	282.
1.41	27.26	9.10

SAMPLE LOCATION 5915
 EAST BRANCH SWAMP CREEK
 DRAINAGE AREA 1575.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	28	68	3.70	58.0	19.0	0.0	165.	6.49	3.8	3.25	1015.
12	11	68	3.45	110.0	32.0	0.0	500.	4.61	11.0	2.60	1539.
12	21	68	3.30	112.0	36.0	0.0	404.	7.99		1.56	940.
1	14	69	3.25	130.0	39.0	0.0	550.	8.37		1.04	728.
1	24	69	3.65	55.0	18.0	0.0	150.	4.51		6.92	2052.
2	4	69	3.45	130.0	53.0	0.0	352.	11.28		5.41	3790.
2	12	69	3.55	160.0	65.0	0.0	378.	11.28	13.0	1.82	1567.
2	25	69	3.45	108.0	29.0	0.0	559.	8.74	14.0	0.84	491.
3	7	69	3.35	132.0	65.0	0.0	713.	6.96	19.0	0.54	385.
3	21	69	3.45	66.0	41.0	0.0	189.	9.87	3.8	8.44	3002.
4	2	69	3.75	35.0	16.0	0.0	82.	3.95	3.3	13.41	2530.
4	17	69	3.60	90.0	49.0	0.0	198.	4.42	6.4	2.81	1364.
4	19	69	3.60	61.0	35.0	0.0	155.	4.42		4.33	1423.
4	30	69	3.60	83.0	42.0	0.0	335.	4.51	9.5	2.60	1161.
5	15	69	3.55	71.0	38.0	0.0	215.	3.67		3.03	1159.
5	29	69	3.40	165.0	79.0	0.0	537.	4.61	14.0	1.41	1251.
6	13	69	3.40	160.0	56.0	0.0	494.	4.23		0.37	317.
6	26	69	3.45	141.0	46.0	0.0	748.	5.36		0.43	329.
7	24	69	3.40	121.0	43.0	0.0	602.	4.79	3.3	0.28	183.
8	17	69	3.50	98.0	47.0	0.0	533.	4.14		0.67	354.
9	5	69	3.55	79.0	31.0	0.0	679.	3.99		0.21	91.
10	8	69	3.55	63.0	32.0	0.0	567.	4.89		0.18	62.
10	24	69	3.65	97.0	39.0	0.0	370.	5.03		0.16	81.
11	19	69	3.70	64.0	29.0	0.0	245.	4.14		5.84	2015.
12	18	69	3.50	96.0	22.5	0.0	331.	5.83		1.75	907.

AB 18

MINIMUM	3.25	35.0	16.0	0.0	82.	3.67
MAXIMUM	3.75	165.0	79.0	0.0	748.	11.28
AVERAGE	3.51	99.4	40.1	0.0	402.	5.92

SAMPLE LOCATION 5916
 SWAMP CREEK
 DRAINAGE AREA 2407.0 ACRES

MG.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD	
11	28	68	3.40	86.0	43.0	0.0	220.	6.67	4.6	4.96	2299.	
12	11	68	3.30	122.0	39.0	0.0	425.	5.92	15.0	3.96	2609.	
12	21	68	3.25	120.0	38.0	0.0	370.	8.84	16.0	2.38	1540.	
1	14	69	3.40	130.0	40.0	0.0	473.	5.26		1.58	1112.	
1	24	69	3.55	63.0	26.0	0.0	103.	4.89		10.58	3593.	
2	4	69	3.45	110.0	49.0	0.0	309.	11.28	14.0	8.27	4901.	
2	12	69	3.55	125.0	52.0	0.0	309.	8.46	13.0	2.77	1872.	
2	25	69	3.40	130.0	32.0	0.0	541.	6.96	16.0	1.29	904.	
3	7	69	3.20	140.0	58.0	0.0	602.	5.83		0.82	624.	
3	21	69	3.50	71.0	38.0	0.0	138.	8.18	4.4	12.90	4935.	
4	2	69	3.65	37.0	19.0	0.0	86.	3.20	2.9	20.50	4088.	
4	17	69	3.20	140.0	95.0	0.0	258.	12.22	6.7	4.30	3244.	
4	19	69	3.45	82.0	51.0	0.0	163.	12.22		6.62	2923.	
4	30	69	3.45	89.0	52.0	0.0	305.	4.79	7.0	3.96	1903.	
5	15	69	3.50	74.0	30.0	0.0	232.	4.98		4.63	1846.	
6	13	69	3.45	180.0	62.0	0.0	340.	3.20		0.56	545.	
6	26	69	3.40	115.0	40.0	0.0	477.	7.71		0.67	410.	
7	24	69	3.35	118.0	50.0	0.0	516.	4.14		0.43	273.	
8	17	69	3.25	98.0	68.0	0.0	365.	12.50		1.02	542.	
9	5	69	3.40	88.0	38.0	0.0	511.	3.01		0.32	155.	
10	8	69	3.25	132.0	71.0	0.0	434.	3.71		0.28	198.	
10	24	69	3.40	128.0	54.0	0.0	348.	4.79		0.24	165.	
11	19	69	3.55	89.0	48.0	0.0	241.	3.71		8.93	4282.	
12	18	69	3.35	140.0	56.0	0.0	357.	14.10		2.68	2021.	
				37.0	19.0	0.0	86.	3.01				
MINIMUM				180.0	95.0	0.0	602.	14.10				
MAXIMUM				108.6	47.9	0.0	338.	6.94				
AVERAGE												

SAMPLE LOCATION 5917
 TRIBUTARY SWAMP CREEK
 DRAINAGE AREA 42.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	22	68	3.85	86.0	18.0	0.0	490.	4.98	17.0	0.07	34.
11	28	68	4.15	63.0	8.0	0.0	400.	0.89	14.0	0.07	25.
12	11	68	4.00	69.0	8.5	0.0	430.	0.70	16.0	0.06	22.
12	21	68	4.00	53.0	6.0	0.0	559.	0.30		0.04	10.
1	24	69	4.45	27.0	0.5	0.0	232.	0.24		0.16	23.
2	4	69	4.10	75.0	8.5	0.0	361.	0.49		0.12	50.
2	12	69	4.30	95.0	8.5	0.0	473.	0.49	19.0	0.04	21.
2	25	69	4.10	95.0	11.0	0.0	834.	0.58	23.0	0.02	10.
3	7	69	4.00	131.0	28.0	0.0	834.	1.03	25.0	0.01	9.
3	21	69	4.20	52.0	6.0	0.0	258.	0.61	8.5	0.19	54.
4	2	69	4.15	35.0	9.0	0.0	172.	0.28	7.5	0.31	58.
4	17	69	4.05	90.0	26.0	0.0	627.	0.68	16.0	0.06	31.
4	19	69	4.15	43.0	14.0	0.0	301.	0.68		0.10	23.
4	30	69	4.10	81.0	25.0	0.0	550.	0.33	16.0	0.06	26.
5	15	69	4.05	52.0	30.0	0.0	438.	0.36		0.07	19.
6	13	69	3.70	48.0	28.0	0.0	447.	0.29		0.01	2.
6	26	69	3.90	51.0	26.0	0.0	679.	0.35		0.01	3.
7	24	69	3.55	75.0	31.0	0.0	774.	3.10	24.0	0.01	3.
8	16	69	3.40	87.0	44.0	0.0	735.	6.30		0.01	5.
9	5	69	3.40	92.0	48.0	0.0	765.	5.73		0.00	2.
10	9	69	3.50	74.0	29.0	0.0	718.	3.85		0.00	1.
10	24	69	3.65	72.0	30.0	0.0	597.	0.39		0.00	1.
11	19	69	3.95	31.5	8.5	0.0	262.	0.68		0.13	23.

AB-20

MINIMUM	MAXIMUM	AVERAGE
3.40	4.45	3.94
27.0	131.0	68.6
0.5	48.0	19.6
0.0	0.0	0.0
172.	834.	519.
0.24	6.30	1.45

SAMPLE LOCATION 5918

SWAMP CREEK

DRAINAGE AREA 3143.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	28	68	3.50	68.0	34.0	0.0	195.	12.22	3.7	8.33	3052.
12	11	68	3.40	115.0	35.0	0.0	390.	3.38	9.6	6.66	4129.
12	21	68	3.35	102.0	28.0	0.0	361.	5.26		4.00	2197.
1	8	69	3.55	90.0	33.0	0.0	344.	4.98	9.8	4.66	2262.
1	14	69	3.50	120.0	33.0	0.0	438.	3.48		2.66	1723.
1	24	69	3.55	62.0	26.0	0.0	138.	4.42		17.76	5936.
2	4	69	3.55	98.0	41.0	0.0	297.	6.86		13.88	7330.
2	12	69	3.70	96.0	38.0	0.0	266.	4.61	12.0	4.66	2413.
2	25	69	3.35	135.0	30.0	0.0	430.	3.20	12.0	2.16	1575.
3	7	69	3.45	130.0	47.0	0.0	490.	2.54	11.0	1.39	972.
3	20	69	3.50	72.0	27.0	0.0	249.	4.42		7.77	3016.
3	21	69	3.70	49.0	21.0	0.0	125.	4.61	4.0	21.65	5718.
4	2	69	3.70	39.0	19.0	0.0	103.	3.20		34.42	7234.
4	17	69	3.50	96.0	51.0	0.0	258.	5.36	7.2	7.22	3734.
4	19	69	3.60	61.0	34.0	0.0	150.	5.36		11.10	3650.
4	30	69	3.55	63.0	39.0	0.0	215.	3.48	6.8	6.66	2262.
5	15	69	3.60	52.0	30.0	0.0	155.	3.10		7.77	2178.
6	13	69	3.55	120.0	41.0	0.0	232.	4.61		0.94	610.
6	26	69	3.50	118.0	38.0	0.0	322.	6.67		1.11	706.
7	27	69	3.50	85.0	55.0	0.0	438.	2.54		18.87	8647.
8	17	69	3.45	85.0	33.0	0.0	309.	3.57		1.72	788.
9	5	69	3.45	81.0	30.0	0.0	262.	2.26		0.55	240.
10	8	69	3.40	117.0	58.0	0.0	331.	2.63		0.47	294.
10	24	69	3.45	109.0	50.0	0.0	222.	3.52		0.40	235.
11	19	69	3.55	82.0	46.0	0.0	236.	2.58		14.99	6624.

MINIMUM

MAXIMUM

AVERAGE

3.35	39.0	19.0	0.0	103.	2.26
3.70	135.0	58.0	0.0	490.	12.22
3.52	89.8	36.7	0.0	278.	4.35

SAMPLE LOCATION 5919

BORGARDY RUN

DRAINAGE AREA 214.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	3.70	47.0	14.0	0.0	180.	2.26	13.0	0.46	117.
11	28	68	3.90	51.0	13.0	0.0	195.	0.99	5.5	0.35	95.
12	11	68	3.95	29.0	7.4	0.0	135.	0.89	4.9	0.28	43.
12	12	68	3.90	30.0	6.0	0.0	132.	0.42		0.28	45.
1	8	69	3.90	34.0	6.0	0.0	153.	1.32	6.9	0.19	36.
1	14	69	3.95	32.0	6.0	0.0	189.	1.13		0.11	19.
1	24	69	3.90	44.0	11.0	0.0	95.	0.74		0.74	175.
2	4	69	3.95	32.0	8.0	0.0	143.	0.55		0.58	100.
2	12	69	4.15	37.0	8.0	0.0	139.	0.54	12.0	0.19	39.
2	25	69	3.95	54.0	16.0	0.0	275.	0.70	11.0	0.09	26.
3	7	69	3.95	58.0	17.0	0.0	241.	1.43	12.0	0.06	18.
3	21	69	3.95	40.0	11.0	0.0	138.	0.64	5.6	0.90	194.
4	2	69	3.85	43.0	11.0	0.0	120.	0.79	5.6	1.43	332.
4	17	69	3.90	84.0	28.0	0.0	223.	0.99	13.0	0.30	136.
4	19	69	3.90	56.0	24.0	0.0	206.	0.99		0.46	139.
4	30	69	3.95	61.0	27.0	0.0	266.	0.50	5.5	0.28	91.
5	15	69	3.90	42.0	23.0	0.0	150.	0.71		0.32	73.
6	13	69	3.95	36.0	18.0	0.0	172.	0.76		0.04	8.
6	26	69	4.05	38.0	21.0	0.0	193.	0.97		0.05	9.
7	24	69	3.70	46.0	23.0	0.0	232.	3.38		0.03	7.
8	16	69	3.65	29.0	13.0	0.0	219.	5.36		0.05	7.
9	5	69	3.60	102.0	39.0	0.0	610.	5.36		0.02	13.
10	8	69	3.65	44.0	18.0	0.0	202.	2.77		0.02	5.
10	24	69	3.80	51.0	29.0	0.0	189.	1.23		0.02	5.
11	21	69	3.75	63.0	32.0	0.0	110.	0.49		0.37	125.
12	18	69	3.90	52.0	9.0	0.0	142.	1.64		0.19	52.

MINIMUM 3.60

MAXIMUM 4.15

AVERAGE 3.87

MINIMUM 6.0

MAXIMUM 39.0

AVERAGE 16.9

MINIMUM 0.0

MAXIMUM 0.0

AVERAGE 0.0

MINIMUM 95.

MAXIMUM 610.

AVERAGE 194.

MINIMUM 0.42

MAXIMUM 5.36

AVERAGE 1.44

SAMPLE LOCATION 5920

YONKERS RUN

DRAINAGE AREA

476.0 ACRES

MD.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	4.80	8.4	0.0	0.0	59.	0.75	2.4	2.10	0.
12	11	68	4.60	9.5	0.2	0.0	47.	0.11	2.4	1.01	52.
12	21	68	4.75	8.0	0.2	0.0	50.	0.04		0.61	26.
1	14	69	4.70	7.6	0.0	0.0	49.	0.04		0.40	17.
1	24	69	4.55	9.5	0.5	0.0	56.	0.32		2.69	138.
2	4	69	4.55	8.0	0.5	0.0	46.	0.04		2.10	91.
2	12	69	4.85	9.0	0.0	0.0	36.	0.03	1.6	0.71	0.
2	25	69	4.80	6.5	0.0	0.0	55.	0.04		0.33	0.
3	7	69	4.85	8.0	0.2	0.0	59.	0.05		0.21	0.
3	21	69	4.70	9.0	0.2	0.0	49.	0.12		3.28	159.
4	2	69	4.55	10.0	1.0	0.0	47.	0.17		5.21	281.
4	17	69	4.70	9.0	1.5	0.0	52.	0.08		1.09	53.
4	19	69	4.55	9.5	0.5	0.0	52.	0.08		1.68	86.
4	30	69	4.75	7.0	0.2	0.0	49.	0.04		1.01	38.
5	15	69	4.60	9.0	1.5	0.0	45.	0.08		1.18	57.
6	13	69	4.75	8.0	0.2	0.0	47.	0.04		0.14	6.
6	26	69	4.80	9.0	0.0	0.0	53.	0.06		0.17	0.
7	23	69	4.70	8.0	0.5	0.0	77.	0.03		0.12	5.
8	16	69	4.55	8.0	0.5	0.0	73.	0.03		0.17	7.
9	5	69	4.65	7.5	0.5	0.0	75.	0.08		0.08	3.
10	8	69	4.65	8.0	0.5	0.0	65.	0.14		0.07	3.
10	23	69	4.70	7.5	0.5	0.0	62.	0.09		0.07	3.
11	20	69	4.65	9.0	0.5	0.0	55.	0.20		1.68	82.

MINIMUM

MAXIMUM

AVERAGE

4.55 6.5 0.0 0.0 0.0 0.0 36. 0.03

4.85 10.0 1.5 0.0 0.0 0.0 77. 0.75

4.68 8.4 0.4 0.0 0.0 0.0 55. 0.11

SAMPLE LOCATION 5921
TRIBUTARY YONKERS RUN
DRAINAGE AREA 140.0 ACRES

MO.	DAY	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	3.50	96.0	28.0	0.0	575.	1.32	31.0	0.37	190.
11	29	3.65	85.0	26.0	0.0	525.	1.17	37.0	0.46	211.
12	11	3.55	108.0	23.0	0.0	650.	1.46	33.0	0.22	129.
12	21	3.40	158.0	38.0	0.0	817.	2.11	64.0	0.13	113.
1	8	3.35	170.0	36.0	0.0	834.	1.88	49.0	0.15	142.
1	14	3.30	162.0	38.0	0.0	988.	2.40		0.09	77.
1	24	3.45	104.0	32.0	0.0	408.	1.69		0.59	330.
2	4	3.50	102.0	30.0	0.0	567.	1.79		0.46	253.
2	12	3.60	180.0	53.0	0.0	765.	2.63	61.0	0.15	150.
2	25	3.30	310.0	82.0	0.0	1160.	3.34	73.0	0.07	120.
3	7	3.15	470.0	128.0	0.0	1547.	3.29	88.0	0.05	117.
3	21	3.45	150.0	40.0	0.0	602.	1.69	29.0	0.72	580.
4	2	3.50	80.0	27.0	0.0	301.	0.94	17.0	1.14	492.
4	17	3.50	195.0	62.0	0.0	653.	1.60	40.0	0.24	252.
4	19	3.50	135.0	55.0	0.0	499.	1.60		0.37	268.
4	30	3.45	220.0	73.0	0.0	756.	1.60	41.0	0.22	262.
5	15	3.45	175.0	64.0	0.0	619.	1.41		0.26	243.
6	13	3.35	355.0	54.0	0.0	1203.	3.85		0.03	60.
6	26	3.60	350.0	145.0	0.0	1117.	2.54		0.04	69.
7	23	3.25	350.0	85.0	0.0	1160.	2.35	72.0	0.03	49.
8	16	3.30	325.0	98.0	0.0	1117.	2.26		0.04	64.
9	5	3.25	315.0	69.0	0.0	1117.	3.01		0.02	31.
10	8	3.25	320.0	62.0	0.0	1100.	2.96		0.02	27.
10	23	3.40	485.0	138.0	0.0	894.	2.77		0.01	38.
11	21	3.35	185.0	52.0	0.0	464.	0.97		0.29	294.
12	19	3.50	265.0	51.0	0.0	584.	3.29		0.13	192.

MINIMUM	3.15	80.0	23.0	0.0	301.	0.94
MAXIMUM	3.65	485.0	145.0	0.0	1547.	3.85
AVERAGE	3.42	225.0	61.1	0.0	809.	2.15

SAMPLE LOCATION 5922

YONKERS RUN

DRAINAGE AREA 655.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	4.40	21.0	2.0	0.0	110.	0.08	5.9	2.89	327.
12	11	68	4.25	22.0	1.4	0.0	160.	0.19	5.4	1.39	165.
12	21	68	4.00	36.0	5.5	0.0	206.	0.36		0.83	162.
1	8	69	3.95	40.0	8.0	0.0	210.	0.27		0.97	209.
1	14	69	3.90	44.0	7.4	0.0	318.	0.41		0.56	132.
1	24	69	4.15	25.0	7.0	0.0	86.	0.70		3.70	499.
2	4	69	4.10	23.0	4.5	0.0	138.	0.30		2.89	359.
2	12	69	4.10	63.0	8.5	0.0	168.	0.39	12.0	0.97	330.
2	25	69	3.90	76.0	14.0	0.0	309.	0.47	19.0	0.45	185.
3	7	69	3.75	116.0	30.0	0.0	335.	0.45	21.0	0.29	181.
3	21	69	4.05	35.0	6.0	0.0	142.	0.27	6.5	4.51	851.
4	2	69	4.15	19.0	5.0	0.0	81.	0.25	4.1	7.17	734.
4	17	69	4.10	37.0	12.0	0.0	150.	0.29		1.50	300.
4	19	69	3.95	45.0	17.0	0.0	198.	0.29		2.31	561.
4	30	69	4.00	56.0	21.0	0.0	206.	0.48	15.0	1.39	419.
5	15	69	4.05	37.0	15.0	0.0	142.	0.35		1.62	323.
6	13	69	3.85	78.0	18.0	0.0	314.	0.49		0.20	83.
6	26	69	3.85	75.0	20.0	0.0	322.	0.40		0.23	94.
7	23	69	3.75	91.0	32.0	0.0	447.	0.54		0.16	79.
8	16	69	3.70	93.0	32.0	0.0	365.	0.41		0.23	116.
9	5	69	3.65	120.0	47.0	0.0	473.	0.23		0.11	74.
10	8	69	3.70	95.0	33.0	0.0	477.	0.57		0.10	50.
10	23	69	3.80	113.0	37.0	0.0	284.	0.51		0.09	55.
11	20	69	4.05	37.0	7.0	0.0	125.	0.27		2.31	461.
12	18	69	4.10	42.0	7.0	0.0	155.	0.45		0.94	212.

MINIMUM	3.65	19.0	1.4	0.0	81.	0.08
MAXIMUM	4.40	120.0	47.0	0.0	477.	0.70
AVERAGE	3.97	57.6	15.9	0.0	237.	0.38

SAMPLE LOCATION 5923

SEVEN MILE RUN

DRAINAGE AREA

5096.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	5.70	3.6	0.0	1.2	14.	0.04		20.00	0.
11	29	68	5.55	2.0	0.0	2.5	12.	0.06		25.00	-67.
12	11	68	5.75	1.4	0.0	1.8	12.	0.04		12.00	-26.
1	8	69	5.00	2.4	0.0	1.0	3.	0.04		8.40	0.
1	15	69	5.60	1.8	0.0	2.3	6.	0.04		4.40	-12.
1	25	69	4.95	4.0	0.0	0.0	6.	0.09		44.00	0.
2	4	69	5.25	1.5	0.0	0.5	6.	0.06		25.00	0.
2	13	69	5.80	1.0	0.0	1.5	4.	0.05		7.60	-20.
2	25	69	6.10	1.5	0.0	2.5	6.	0.02		3.90	-21.
3	8	69	6.05	1.5	0.0	3.0	7.	0.12		2.50	-20.
3	22	69	5.20	2.5	0.0	0.5	8.	0.02		27.00	0.
4	2	69	4.80	5.0	0.0	0.0	8.	0.09		62.00	0.
4	17	69	5.35	1.5	0.0	1.0	7.	0.03		13.00	0.
4	30	69	6.05	2.5	0.0	1.5	3.	0.02		12.00	0.
5	15	69	5.80	1.5	0.0	1.0	4.	0.03		14.00	0.
6	12	69	6.30	0.5	0.0	4.0	3.	0.04		2.00	-38.
6	26	69	6.45	1.0	0.0	2.0	4.	0.03		2.00	-11.
7	23	69	6.20	0.5	0.0	5.0	6.	0.04		1.40	-34.
8	16	69	6.40	2.5	0.0	3.0	7.	0.05		2.00	-5.
9	4	69	6.45	3.0	0.0	4.5	8.	0.03		0.85	-7.
10	8	69	5.65	2.5	0.0	1.0	6.	0.08		0.84	0.
10	23	69	5.70	1.5	0.0	3.0	9.	0.07		0.78	-6.
MINIMUM											
MAXIMUM											
AVERAGE											

SAMPLE LOCATION 5924

FIVEMILE RUN

DRAINAGE AREA

4073.0 ACRES

MD.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	4.70	5.8	1.0	0.0	13.	0.08		14.39	450.
11	29	68	5.00	3.8	0.0	1.0	13.	0.08		17.98	0.
12	11	68	5.40	1.4	0.0	1.0	12.	0.08		8.63	0.
1	8	69	5.20	2.2	0.0	1.6	6.	0.03		6.04	0.
1	15	69	5.45	2.0	0.0	1.4	6.	0.07		3.17	0.
1	25	69	4.70	4.0	0.2	0.0	6.	0.17		31.65	682.
2	4	69	4.80	3.0	0.0	0.0	6.	0.08		17.98	0.
2	13	69	5.50	2.0	0.0	1.0	3.	0.05		5.47	0.
2	25	69	5.57	1.5	0.0	2.5	7.	0.04		2.81	-15.
3	8	69	6.10	1.5	0.0	2.5	7.	0.09		1.80	-10.
3	22	69	4.90	4.0	0.0	0.0	9.	0.07		19.42	0.
4	2	69	4.60	7.0	1.0	0.0	8.	0.08		44.60	1683.
4	17	69	5.25	3.0	0.0	0.5	6.	0.03		9.35	0.
4	30	69	5.65	3.0	0.0	1.0	3.	0.01		8.63	0.
5	15	69	5.20	2.5	0.0	0.5	4.	0.03		10.07	0.
6	12	69	6.25	1.0	0.0	4.0	4.	0.02		1.44	-23.
6	26	69	6.30	1.0	0.0	2.5	5.	0.04		1.44	-12.
7	23	69	6.20	0.5	0.0	4.0	3.	0.13		1.01	-19.
8	16	69	6.25	2.0	0.0	3.5	6.	0.09		1.44	-12.
9	4	69	6.25	2.5	0.0	3.5	9.	0.11		0.61	-3.
10	8	69	5.55	2.5	0.0	0.5	7.	0.11		0.60	0.
10	23	69	5.55	3.5	0.0	1.5	9.	0.09		0.56	0.

MINIMUM	4.60	0.5	0.0	0.0	0.01
MAXIMUM	6.30	7.0	4.0	13.	0.17
AVERAGE	5.47	2.7	1.5	7.	0.07

SAMPLE LOCATION 5925
 SUGAR RUN
 DRAINAGE AREA 473.0 ACRES

MD.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SD4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
12	20	68	5.65	2.1	0.0	1.2	4.	0.03		0.90	0.
2	5	69	5.25	1.5	0.0	0.5	3.	0.03		2.34	0.
4	3	69	5.20	3.0	0.0	0.2	5.	0.02		5.01	0.
4	18	69	5.45	3.0	0.0	1.0	6.	0.03		1.34	0.
5	1	69	5.40	2.5	0.0	0.5	5.	0.02		1.23	0.
5	16	69	5.40	2.5	0.0	1.0	5.	0.02		1.34	0.
6	11	69	6.40	1.5	0.0	1.0	6.	0.02		0.22	0.

MINIMUM	5.20	1.5	0.0	0.2	3.	0.02
MAXIMUM	6.40	3.0	0.0	1.2	6.	0.03
AVERAGE	5.54	2.3	0.0	0.8	5.	0.02

SAMPLE LOCATION 5926
 TRIBUTARY SMITH RUN
 DRAINAGE AREA 356.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	4.40	9.8	1.4	0.0	13.	0.15		1.68	89.
11	29	68	4.60	9.0	0.2	0.0	13.	0.10		2.10	102.
12	11	68	4.55	6.5	0.4	0.0	9.	0.12		1.01	35.
12	21	68	4.55	6.3	0.2	0.0	7.	0.11		0.60	20.
1	15	69	4.65	5.4	0.2	0.0	5.	0.09		0.37	11.
1	25	69	4.35	8.0	0.5	0.0	4.	0.23		3.69	159.
2	4	69	4.30	7.5	0.5	0.0	5.	0.12		2.10	85.
2	13	69	4.50	6.5	1.0	0.0	6.	0.08		0.64	22.
2	26	69	4.75	4.5	0.0	0.0	6.	0.06		0.32	8.
3	8	69	4.80	5.0	0.0	0.0	8.	0.08		0.21	0.
3	22	69	4.50	8.0	1.0	0.0	7.	0.08		2.26	98.
4	3	69	4.45	8.0	1.0	0.0	9.	0.12		3.77	163.
4	17	69	4.75	6.0	0.5	0.0	9.	0.08		1.09	35.
5	1	69	4.70	6.0	0.5	0.0	7.	0.06		0.92	30.
5	16	69	4.50	5.5	1.0	0.0	9.	0.08		1.01	30.
6	12	69	5.05	3.0	0.0	0.0	9.	0.07		0.17	0.
6	28	69	5.35	1.5	0.0	1.5	9.	0.06		0.29	0.
7	23	69	4.80	4.0	0.0	0.0	3.	0.23		0.12	0.
8	15	69	4.75	4.5	0.2	0.0	8.	0.18		0.13	3.
9	4	69	4.95	5.5	0.0	0.0	11.	0.23		0.07	0.
10	8	69	4.65	5.0	0.5	0.0	7.	0.11		0.07	2.
10	23	69	4.40	8.0	1.0	0.0	10.	0.14		0.07	3.

BB-29

MINIMUM
 MAXIMUM
 AVERAGE

4.30	1.5	0.0	0.0	0.06	
5.35	9.8	1.4	1.5	0.23	
4.65	6.1	0.5	0.1	0.12	

SAMPLE LOCATION 5927

TRIBUTARY SMITH RUN

DRAINAGE AREA 61.5 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	5.20	1.6	0.0	1.2	4.	0.03		0.33	0.
12	21	68	5.30	2.2	0.0	0.8	3.	0.03		0.10	0.
1	8	69	4.95	2.4	0.0	0.5	3.	0.02		0.11	0.
1	15	69	5.20	2.2	0.0	0.9	3.	0.04		0.06	0.
1	25	69	4.80	4.0	0.0	0.0	5.	0.03		0.58	0.
2	5	69	4.80	1.5	0.0	0.0	3.	0.03		0.28	0.
2	13	69	5.10	1.5	0.0	0.0	3.	0.03		0.10	0.
2	26	69	5.50	2.0	0.0	1.0	5.	0.03		0.05	0.
3	8	69	5.45	2.0	0.0	1.5	4.	0.05		0.03	0.
3	22	69	5.05	2.0	0.0	0.2	3.	0.07		0.36	0.
4	3	69	4.80	2.0	0.0	0.8	3.	0.03		0.60	0.
4	17	69	5.10	2.5	0.0	0.2	3.	0.01		0.17	0.
5	1	69	5.25	2.0	0.0	0.5	4.	0.02		0.15	0.
5	16	69	5.75	2.0	0.0	0.5	3.	0.03		0.16	0.
6	12	69	5.55	1.5	0.0	1.5	4.	0.04		0.03	0.
6	26	69	5.65	1.0	0.0	1.0	4.	0.04		0.03	0.
7	23	69	5.65	0.5	0.0	1.0	3.	0.05		0.02	-0.
8	15	69	5.55	3.5	0.0	0.5	5.	0.04		0.02	0.
9	4	69	5.70	3.5	0.0	1.0	7.	0.03		0.01	0.
10	8	69	5.25	1.0	0.0	0.5	3.	0.04		0.01	0.
10	23	69	5.00	2.5	0.0	0.0	6.	0.05		0.01	0.
MINIMUM				0.5	0.0	0.0	3.	0.01			
MAXIMUM				4.0	0.0	1.5	7.	0.07			
AVERAGE				2.1	0.0	0.6	4.	0.03			

SAMPLE LOCATION 5928
ANDERSON MINE SEAL SEEPAGE

MO. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	S04 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11 20 68	3.55	34.0	22.0	0.0	75.	0.58		0.172	-
11 29 68	3.70	29.0	18.0	0.0	63.	0.55		0.094	14.
12 11 68	3.50	27.0	18.0	0.0	55.	0.13	0.5	0.077	10.
12 21 68	3.55	24.0	15.0	0.0	48.	1.32		0.109	16.
1 8 69	3.40	27.0	15.0	0.0	42.	0.42		0.054	8.
1 15 69	3.40	28.0	17.0	0.0	44.	0.39		0.152	21.
1 25 69	3.50	26.0	16.0	0.0	44.	0.37		0.187	25.
2 5 69	3.50	25.0	16.0	0.0	38.	0.31		0.094	12.
2 13 69	3.40	24.0	14.0	0.0	31.	0.29	0.6	0.043	6.
2 26 69	3.40	27.0	18.0	0.0	52.	0.36		0.032	5.
3 8 69	3.45	30.0	18.0	0.0	58.	0.51	0.8	0.306	43.
3 22 69	3.35	26.0	17.0	0.0	52.	0.41	0.7	0.850	101.
4 3 69	3.45	22.0	16.0	0.0	43.	0.31		0.160	19.
4 17 69	3.80	22.0	16.0	0.0	33.	0.23		0.134	14.
5 1 69	3.65	20.0	14.0	0.0	37.	0.32		0.160	19.
5 16 69	3.60	22.0	15.0	0.0	35.	0.28		0.082	11.
5 29 69	3.65	24.0	15.0	0.0	42.	0.25	0.7	0.061	8.
6 12 69	3.60	23.0	14.0	0.0	41.	0.29		0.025	4.
6 26 69	3.60	26.0	17.0	0.0	38.	0.38		0.017	4.
7 23 69	3.45	41.0	19.0	0.0	74.	0.49	1.2	-	-
8 15 69	3.50	52.0	21.0	0.0	81.	0.44		0.013	4.
9 4 69	3.45	55.0	24.0	0.0	90.	0.52		0.019	5.
10 8 69	3.40	51.0	20.0	0.0	70.	0.57		0.021	6.
10 23 69	3.50	53.0	33.0	0.0	44.	0.39			

MINIMUM	3.35	20.0	14.0	0.0	31.	0.13			
MAXIMUM	3.80	55.0	33.0	0.0	90.	1.32			
AVERAGE	3.51	31.0	18.0	0.0	51.	0.50			

SAMPLE LOCATION 5929
 TRIBUTARY SMITH RUN
 DRAINAGE AREA 393.0 ACRES

MO. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11 20 68	4.55	7.4	1.0	0.0	17.	0.26		1.70	68.
11 29 68	4.55	7.8	1.0	0.0	15.	0.15		2.12	89.
12 12 68	4.40	7.2	0.6	0.0	16.	0.30		1.02	40.
1 8 69	4.30	6.0	0.8	0.0	11.	0.24		0.71	23.
1 15 69	4.35	7.0	0.6	0.0	12.	0.23		0.37	14.
1 25 69	4.40	6.5	0.5	0.0	9.	0.23		3.73	131.
2 5 69	4.10	7.0	1.5	0.0	9.	0.16		1.78	67.
2 13 69	4.30	6.0	1.0	0.0	5.	0.15		0.64	21.
2 26 69	4.50	5.5	0.5	0.0	13.	0.52		0.32	10.
3 8 69	4.65	5.5	0.5	0.0	11.	0.36		0.21	6.
3 22 69	4.45	7.5	1.5	0.0	11.	0.13		2.29	93.
4 20 69	4.20	7.5	2.0	0.0	11.	0.04		3.82	154.
4 17 69	4.60	7.0	1.0	0.0	10.	0.08		1.10	42.
5 1 69	4.50	5.5	1.0	0.0	12.	0.08		0.93	28.
5 16 69	4.40	7.0	1.5	0.0	11.	0.09		1.02	38.
6 12 69	4.50	5.0	1.0	0.0	13.	0.08		0.17	5.
6 26 69	4.55	5.0	1.0	0.0	14.	0.11		0.17	5.
7 23 69	4.75	3.0	0.2	0.0	8.	0.55		0.12	2.
8 15 69	4.70	3.5	0.2	0.0	15.	0.58		0.14	3.
9 4 69	4.85	3.5	0.0	0.0	21.	0.57		0.07	0.
10 8 69	4.75	5.5	0.2	0.0	9.	0.45		0.07	2.
10 23 69	4.45	6.0	2.0	0.0	14.	0.35		0.07	2.
MINIMUM	4.10	3.0	0.0	0.0	5.	0.04			
MAXIMUM	4.85	7.8	2.0	0.0	21.	0.58			
AVERAGE	4.49	6.0	0.9	0.0	12.	0.26			

SAMPLE LOCATION 5930

SMITH RUN

DRAINAGE AREA 2127.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SD4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
12	20	69	5.15	2.8	0.0	0.5	6.	0.55		3.04	0.
2	5	69	4.80	2.0	0.0	0.0	5.	0.06		7.89	0.
4	3	69	4.65	4.5	0.5	0.0	6.	0.04		16.90	410.
4	18	69	4.95	2.5	0.0	0.0	6.	0.04		4.51	0.
5	1	69	5.00	3.0	0.0	0.0	7.	0.04		4.13	0.
5	16	69	5.15	2.5	0.0	0.2	6.	0.04		4.51	0.
6	11	69	5.80	2.0	0.0	1.0	5.	0.03		0.75	0.
7	23	69	5.90	2.0	0.0	2.0	4.	0.03		0.53	0.

MINIMUM	4.65	2.0	0.0	4.	0.03
MAXIMUM	5.90	4.5	2.0	7.	0.55
AVERAGE	5.17	2.7	0.5	6.	0.10

SAMPLE LOCATION 5931

COLD SPRING RUN

DRAINAGE AREA 405.0 ACRES

NO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	20	68	4.90	4.2	0.0	0.8	12.	0.06		1.88	0.
11	29	68	5.00	3.6	0.0	0.5	11.	0.03		2.34	0.
12	12	68	5.00	3.8	0.0	0.6	9.	0.03		1.13	0.
1	8	69	4.70	2.3	0.2	0.0	5.	0.03		0.79	10.
1	15	69	4.85	3.0	0.0	0.2	7.	0.03		0.41	0.
1	25	69	4.70	5.0	0.2	0.0	6.	0.06		4.13	111.
2	5	69	4.80	1.0	0.0	0.0	5.	0.05		1.97	0.
2	13	69	4.80	3.5	0.0	0.0	4.	0.04		0.71	0.
2	26	69	5.15	3.0	0.0	1.0	8.	0.35		0.36	0.
3	8	69	5.30	3.0	0.0	1.0	6.	0.23		0.23	0.
3	22	69	4.85	4.0	0.0	0.0	7.	0.04		2.53	0.
4	3	69	4.70	4.0	0.5	0.0	8.	0.03		4.22	91.
4	17	69	5.00	4.0	0.0	0.0	5.	0.03		1.22	0.
5	1	69	4.95	4.0	0.0	0.0	9.	0.02		1.03	0.
5	16	69	4.85	3.0	0.0	0.0	8.	0.03		1.13	0.
6	12	69	5.15	1.5	0.0	0.2	9.	0.02		0.19	0.
6	26	69	5.25	1.0	0.0	0.5	8.	0.04		0.19	0.
7	23	69	5.15	2.0	0.0	0.5	4.	0.03		0.13	0.
8	15	69	5.25	2.0	0.0	0.5	9.	0.04		0.15	0.
9	4	69	5.35	2.0	0.0	0.5	9.	0.04		0.08	0.
10	8	69	5.10	4.5	0.0	0.0	4.	0.04		0.08	0.
10	23	69	4.90	3.5	0.0	0.0	6.	0.03		0.07	0.

AB-34

MINIMUM	MAXIMUM	AVERAGE
4.70	5.35	4.99
1.0	5.0	3.1
0.0	0.5	0.0
0.0	1.0	0.3
4.	12.	7.
0.02	0.35	0.06

SAMPLE LOCATION 5932

MARTIN RUN

DRAINAGE AREA 1300.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	S04 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	4.90	5.4	0.0	0.0	14.	0.17		7.65	0.
12	12	68	4.85	3.8	0.0	0.0	6.	0.31	0.2	3.67	0.
12	20	68	4.85	3.8	0.0	0.0	5.	0.23		2.48	0.
1	8	69	4.80	3.6	0.0	0.0	6.	0.23		2.57	0.
1	15	69	5.00	3.2	0.0	0.0	5.	0.31		1.35	0.
1	25	69	4.50	4.5	0.5	0.0	7.	0.20		13.47	327.
2	5	69	4.50	4.5	0.5	0.0	6.	0.18		6.43	156.
2	13	69	4.70	4.0	0.5	0.0	4.	0.15		2.33	50.
2	26	69	5.05	3.5	0.0	0.0	9.	0.30		1.16	0.
3	8	69	5.40	3.0	0.0	1.0	8.	0.35		0.77	0.
3	22	69	4.65	5.0	0.5	0.0	6.	0.12		8.27	223.
4	3	69	4.40	5.0	0.5	0.0	7.	0.08		13.78	371.
4	18	69	4.85	6.0	0.0	0.0	7.	0.28		3.67	0.
5	1	69	4.90	4.5	0.0	0.0	9.	0.25		3.37	0.
5	15	69	4.70	5.5	0.5	0.0	8.	0.11		4.29	127.
6	11	69	5.60	2.5	0.0	1.5	7.	0.26		0.61	0.
7	22	69	5.65	2.0	0.0	1.0	3.	1.08		0.52	0.
8	15	69	5.30	3.5	0.0	0.2	7.	0.24		0.49	0.
9	4	69	5.30	3.5	0.0	0.5	9.	0.23		0.26	0.
10	8	69	5.50	3.0	0.0	0.5	4.	0.45		0.26	0.
10	23	69	4.75	5.5	0.5	0.0	6.	0.30		0.24	7.

MINIMUM 4.40 2.0 0.0 3. 0.08
 MAXIMUM 5.65 6.0 1.5 14. 1.08
 AVERAGE 4.96 4.1 0.2 7. 0.28

SAMPLE LOCATION 5933
 DITCH WEST OF CLERMONT
 DRAINAGE AREA 7.2 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	5.15	5.4	0.0	1.6	65.	0.99	1.8	0.05	0.
12	12	68	5.95	0.8	0.0	3.8	50.	0.66	0.8	0.02	-0.
12	20	68	5.60	4.0	0.0	0.9	47.	0.44		0.02	0.
1	15	69	5.45	1.8	0.0	6.4	37.	0.31		0.01	-0.
1	25	69	4.75	9.0	0.0	0.0	54.	0.77		0.09	4.
2	5	69	4.60	15.0	0.5	0.0	49.	1.08		0.04	3.
2	13	69	4.75	13.0	2.0	0.0	38.	1.15	1.0	0.02	1.
2	26	69	5.70	5.0	0.0	3.0	39.	1.50		0.01	0.
3	8	69	5.10	4.0	0.0	0.0	35.	1.46	1.5	0.00	0.
3	22	69	4.90	4.0	0.0	0.0	37.	1.41	1.0	0.05	0.
4	3	69	4.70	10.0	0.2	0.0	58.	0.60		0.09	5.
4	18	69	4.60	14.0	4.0	0.0	58.	1.17		0.02	2.
5	1	69	4.55	10.0	2.0	0.0	47.	0.75		0.02	1.
5	16	69	4.55	12.0	3.0	0.0	50.	0.89		0.02	2.
9	4	69	4.95	5.5	0.0	0.5	76.	2.17		0.00	0.
10	8	69	4.60	3.5	0.5	0.0	57.	0.99		0.00	0.
10	23	69	5.90	0.0	0.0	12.5	53.	0.70		0.00	-0.
MINIMUM				0.0	0.0	0.0	35.	0.31			
MAXIMUM				15.0	4.0	12.5	76.	2.17			
AVERAGE				6.9	0.7	1.7	50.	1.00			

SAMPLE LOCATION 5934

TWO MILE RUN

DRAINAGE AREA 116.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	19	68	4.30	12.0	2.4	0.0	18.	0.04		0.15	10.
12	12	68	4.40	8.0	1.0	0.0	9.	0.03		0.07	3.
12	20	68	4.35	9.2	0.9	0.0	6.	0.05		0.04	2.
1	25	69	4.40	7.5	0.5	0.0	8.	0.0		0.24	10.
3	6	69	4.25	9.5	2.5	0.0	7.	0.04		0.02	1.
4	29	69	4.25	6.0	2.0	0.0	10.	0.0		0.08	2.
5	16	69	4.35	7.5	2.0	0.0	9.	0.01		0.07	3.
6	11	69	4.35	8.0	3.0	0.0	9.	0.03		0.01	0.
6	25	69	4.40	6.5	0.5	0.0	10.	0.02		0.01	0.
10	23	69	4.15	10.5	4.0	0.0	9.	0.03		0.00	0.
11	18	69	4.10	8.5	2.0	0.0	7.	0.05		0.20	9.

MINIMUM
MAXIMUM
AVERAGE

4.10	6.0	0.5	0.0	6.	0.0
4.40	12.0	4.0	0.0	18.	0.05
4.30	8.5	1.9	0.0	9.	0.03

SAMPLE LOCATION 5935
INSTANTAR MINE SEAL

MO.	DAY	YR.	PH	TOTAL ACID	FREE ACID	ALK.	SO4	TOTAL IRON	MN	FLOW CFS	ACID PPD
				MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		
11	19	68	3.00	129.0	80.0	0.0	350.	8.55	13.0	0.0089	6.
12	12	68	3.15	114.0	56.0	0.0	340.	17.88	7.1	0.0130	8.
12	20	68	3.15	102.0	53.0	0.0	230.	16.93	7.6	0.0130	7.
1	25	69	3.50	98.0	50.0	0.0	211.	15.05		0.0135	7.
3	6	69	3.20	115.0	58.0	0.0	202.	1.04	5.5	0.0150	9.
4	29	69	3.50	82.0	46.0	0.0	155.	1.08	5.5	0.0143	6.
5	16	69	3.45	80.0	44.0	0.0	155.	3.95	4.8	0.0142	6.
5	29	69	3.40	75.0	52.0	0.0	163.	6.50	5.0	0.0148	6.
6	11	69	3.30	89.0	48.0	0.0	167.	6.76	5.1	0.0140	7.
6	25	69	3.35	93.0	45.0	0.0	155.	7.35		0.0130	7.
7	22	69	3.40	97.0	69.0	0.0	197.	20.70	3.8	0.0121	6.
8	15	69	3.30	155.0	71.0	0.0	206.	25.40		0.0121	10.
9	4	69	3.30	128.0	65.0	0.0	206.	22.10		0.0117	8.
10	7	69	3.35	95.0	62.0	0.0	211.	19.30		0.0109	6.
10	23	69	3.40	198.0	130.0	0.0	292.	25.40		0.0105	11.
11	18	69	3.40	205.0	143.0	0.0	292.	26.80		0.0110	12.
12	17	69	3.55	167.0	50.0	0.0	262.	18.60		0.0133	12.
MINIMUM				75.0	44.0	0.0	155.	1.04			
MAXIMUM				205.0	143.0	0.0	350.	26.80			
AVERAGE				119.0	66.0	0.0	220.	14.32			

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SAMPLE LOCATION 5936

TWO MILE RUN

DRAINAGE AREA 179.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	19	68	4.20	15.0	3.2	0.0	19.	0.08		0.37	30.
12	12	68	4.10	14.0	3.2	0.0	24.	0.07	0.5	0.16	12.
12	20	68	4.25	11.0	1.7	0.0	12.	0.21		0.11	7.
1	25	69	4.15	10.0	2.0	0.0	11.	0.06		0.60	32.
3	6	69	4.10	11.5	3.0	0.0	12.	0.06	0.2	0.04	2.
4	29	69	4.05	11.0	4.5	0.0	21.	0.05		0.19	11.
5	16	69	4.05	10.0	4.0	0.0	17.	0.08		0.16	9.
6	11	69	4.10	12.0	5.0	0.0	19.	0.06		0.03	2.
6	25	69	4.05	13.0	5.5	0.0	22.	0.05		0.03	2.
7	22	69	3.55	28.0	20.0	0.0	34.	3.01		0.02	4.
8	15	69	3.90	16.0	6.0	0.0	27.	0.11		0.02	2.
9	4	69	3.90	19.0	7.0	0.0	32.	0.33		0.01	1.
10	7	69	3.40	25.0	17.5	0.0	36.	3.85		0.01	2.
10	23	69	3.85	19.0	9.0	0.0	31.	1.13		0.01	1.
11	18	69	3.90	20.5	8.5	0.0	31.	0.45		0.49	54.
12	17	69	4.20	16.0	4.0	0.0	20.	0.11		0.11	10.

MINIMUM 3.40

MAXIMUM 4.25

AVERAGE 3.98

10.0

1.7

0.0

11.

0.05

36.

23.

0.61

5937

SAMPLE LOCATION
TWO MILE RUN
DRAINAGE AREA

318.0 ACRES

NO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	21	68	3.95	24.0	10.0	0.0	51.	0.22		1.20	155.
11	29	68	4.10	19.0	6.6	0.0	42.	0.15		1.87	192.
12	12	68	3.85	28.0	7.8	0.0	59.	0.16		0.90	136.
12	20	68	3.90	31.0	6.7	0.0	57.	0.84		0.61	101.
2	5	69	3.70	30.0	13.0	0.0	55.	0.14		1.57	254.
2	13	69	3.50	38.0	14.0	0.0	58.	0.19	1.7	0.57	117.
2	26	69	3.60	36.0	12.0	0.0	72.	0.22		0.28	55.
3	8	69	3.70	42.0	21.0	0.0	83.	0.27		0.19	42.
3	22	69	3.80	25.0	11.0	0.0	43.	0.22	1.0	2.02	272.
4	3	69	3.70	22.0	11.0	0.0	40.	0.08	0.8	3.37	400.
4	18	69	3.85	36.0	18.0	0.0	57.	0.14		0.90	174.
5	1	69	3.90	29.0	16.0	0.0	52.	0.14		0.82	129.
5	16	69	3.80	27.0	16.0	0.0	50.	0.11		0.90	131.
6	11	69	3.70	38.0	18.0	0.0	56.	0.17		0.15	31.
6	25	69	3.65	36.0	16.0	0.0	59.	0.14		0.19	36.
7	23	69	3.55	42.0	24.0	0.0	76.	0.52	1.9	0.10	24.
8	15	69	3.65	49.0	20.0	0.0	69.	0.45		0.12	32.
9	4	69	3.70	48.0	23.0	0.0	70.	0.31		0.06	16.
10	7	69	3.65	40.0	20.5	0.0	70.	0.45		0.07	15.
10	23	69	3.80	33.0	22.0	0.0	63.	0.21		0.06	10.

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MINIMUM	3.50	6.6	0.0	40.	0.08
MAXIMUM	4.10	24.0	0.0	83.	0.84
AVERAGE	3.75	15.3	0.0	59.	0.26

SAMPLE LOCATION 5946

COUNTY LINE RUN

DRAINAGE AREA 3981.0 ACRES

MO. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
2 5 69	5.15	1.0	0.0	0.5	5.	0.05		16.41	0.
4 3 69	5.00	4.0	0.0	0.0	5.	0.03		35.15	0.
4 18 69	5.45	2.5	0.0	1.0	4.	0.04		9.37	0.
5 16 69	5.50	2.0	0.0	1.0	4.	0.05		9.37	0.
6 11 69	6.30	2.5	0.0	0.2	4.	0.03		1.56	0.

MINIMUM 5.00
MAXIMUM 6.30
AVERAGE 5.48

TOTAL ACID 1.0 0.0 0.0 4.0 2.4
FREE ACID 0.0 0.0 0.0 0.0 0.0
ALK. 0.5 1.0 0.5 1.0 0.5
SO4 5. 4. 5. 5. 5.
TOTAL IRON 0.05 0.03 0.04 0.05 0.03

SAMPLE LOCATION 5947
 LUKES RUN
 DRAINAGE AREA 854.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
4	3	69	4.65	5.0	0.5	0.0	5.	0.01		8.10	218.
10	23	69	5.15	3.5	0.0	0.5	9.	0.03		0.14	0.
Minimum			4.65	3.5	0.0	0.0	5.	0.01			
Maximum			5.15	5.0	0.5	0.5	9.	0.03			
Average			4.90	4.3	0.3	0.3	7.	0.02			

SAMPLE LOCATION 5948
 STRAIGHT CREEK
 DRAINAGE AREA 3804.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
7	22	69	6.40	0.0	0.0	0.5	4.	0.05		1.36	-4.
10	23	69	5.45	2.0	0.0	2.5	3.	0.04		0.62	-2.
Minimum			5.45	0.0	0.0	0.5	3.	0.04			
Maximum			6.40	2.0	0.0	2.5	4.	0.05			
Average			5.92	1.0	0.0	1.5	3.	0.04			

SAMPLE LOCATION 5949

MIDDLE FORK

DRAINAGE AREA 4047.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
1	24	69	6.00	1.0	0.0	2.0	7.	0.04		25.41	-137.
3	7	69	6.15	1.0	0.0	2.5	6.	0.03		1.99	-16.
6	13	69	6.60	0.2	0.0	3.5	0.	0.0		1.35	-24.
9	6	69	6.90	0.5	0.0	6.5	11.	0.07		1.83	-59.

MINIMUM	6.00	0.0	2.0	0.0	0.0	0.0
MAXIMUM	6.90	1.0	6.5	11.	0.07	0.07
AVERAGE	6.41	0.7	3.6	6.	0.03	0.03

SAMPLE LOCATION 5950
 UNNAMED TRIBUTARY
 DRAINAGE AREA 379.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
1	24	69	5.85	1.0	0.0	2.0	13.	0.09		2.86	-15.
3	7	69	5.70	1.5	0.0	2.0	15.	0.05		0.22	-1.
6	13	69	6.35	0.5	0.0	5.5	0.	0.0		0.15	-4.
9	6	69	7.15	0.0	0.0	8.0	13.	0.02		0.21	-9.

MINIMUM
 MAXIMUM
 AVERAGE

0.0	0.0	2.0	0.	0.0
1.5	0.0	8.0	15.	0.09
0.8	0.0	4.4	10.	0.04

SAMPLE LOCATION 5951

CROOKED CREEK

DRAINAGE AREA

6240.0 ACRES

MG. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
1 24 69	6.30	0.5	0.0	4.5	9.	0.08		39.18	-845.
3 7 69	6.30	0.5	0.0	7.0	10.	0.07		3.06	-107.
6 13 69	6.80	0.2	0.0	8.5	0.	0.0		2.08	-93.
9 6 69	7.25	0.0	0.0	12.5	9.	0.04		2.82	-190.
MINIMUM	6.30	0.0	0.0	4.5	0.	0.0			
MAXIMUM	7.25	0.5	0.0	12.5	10.	0.08			
AVERAGE	6.66	0.3	0.0	8.1	7.	0.04			

SAMPLE LOCATION 5952
 UNNAMED TRIBUTARY
 DRAINAGE AREA 421.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
1	24	69	4.70	6.0	0.5	0.0	12.	0.03		3.17	103.
3	7	69	5.45	2.5	0.0	0.5	9.	0.02		0.25	0.
6	13	69	5.80	1.0	0.0	1.0	0.	0.0		0.17	0.
9	6	69	6.70	0.5	0.0	6.5	8.	0.02		0.23	-7.
MINIMUM				0.5	0.0	0.0	0.	0.0			
MAXIMUM				6.0	0.5	6.5	12.	0.03			
AVERAGE				2.5	0.1	2.0	7.	0.02			

SAMPLE LOCATION 5953

INDIAN RUN

DRAINAGE AREA 1858.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
1	24	69	6.05	0.5	0.0	3.5	13.	0.04		12.83	-208.
3	7	69	6.20	1.0	0.0	2.0	9.	0.02		1.00	-5.
6	13	69	6.40	0.5	0.0	3.5	0.	0.0		0.68	-11.
9	6	69	6.65	0.0	0.0	10.5	12.	0.04		0.92	-52.
MINIMUM			6.05	0.0	0.0	2.0	0.	0.0			
MAXIMUM			6.65	1.0	0.0	10.5	13.	0.04			
AVERAGE			6.32	0.5	0.0	4.9	9.	0.02			

SAMPLE LOCATION 5954
 EAST BRANCH CLARION RIVER
 DRAINAGE AREA 953.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	4.85	5.6	0.0	0.0	15.	0.06		2.85	0.
12	12	68	4.90	3.6	0.0	0.0	9.	0.11		1.37	0.
12	20	68	4.90	3.4	0.0	0.0	6.	0.08		0.92	0.
1	8	69	4.80	3.6	0.0	0.0	8.	0.07		0.96	0.
1	15	69	4.95	3.4	0.0	0.0	6.	0.09		0.50	0.
1	25	69	4.65	4.5	0.5	0.0	9.	0.08		5.02	122.
2	5	69	4.60	4.0	0.2	0.0	6.	0.08		2.40	52.
2	13	69	4.85	3.5	0.0	0.0	7.	0.07		0.87	0.
2	26	69	5.20	3.0	0.0	0.5	8.	0.09		0.43	0.
3	8	69	5.30	2.5	0.0	1.0	7.	0.06		0.29	0.
3	22	69	4.75	5.0	0.0	0.0	9.	0.05		3.08	83.
4	3	69	4.55	5.0	0.5	0.0	9.	0.05		5.13	138.
4	18	69	5.00	5.0	0.0	0.0	7.	0.07		1.37	0.
5	1	69	5.00	4.0	0.0	0.0	8.	0.07		1.25	0.
5	16	69	4.80	4.5	0.2	0.0	9.	0.08		1.37	0.
6	11	69	5.65	2.0	0.0	0.5	7.	0.05		0.23	0.
6	25	69	5.60	1.0	0.0	1.0	9.	0.04		0.29	0.
7	22	69	5.75	3.0	0.0	1.5	3.	2.16		0.19	0.
8	15	69	5.45	3.5	0.0	0.5	8.	1.41		0.18	0.
9	4	69	5.60	4.0	0.0	1.0	8.	0.97		0.10	0.
10	8	69	5.60	3.5	0.0	1.0	5.	0.54		0.10	0.
10	23	69	4.85	5.0	0.0	0.0	8.	0.22		0.09	0.
MINIMUM				1.0	0.0	0.0	3.	0.04			
MAXIMUM				5.6	0.5	1.5	15.	2.16			
AVERAGE				3.8	0.1	0.3	8.	0.29			

SAMPLE LOCATION 5955
 EAST BRANCH CLARION RIVER
 DRAINAGE AREA 2758.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SD4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	5.00	3.4	0.0	0.0	11.	0.12		13.53	0.
12	12	68	5.15	2.8	0.0	0.2	7.	0.13		6.49	0.
12	20	68	5.25	2.3	0.0	0.3	4.	0.17		4.38	0.
2	5	69	4.80	5.0	0.0	0.0	7.	0.14		11.37	0.
2	13	69	4.80	3.5	0.0	0.0	5.	0.12		4.11	0.
2	26	69	5.45	3.0	0.0	0.8	9.	0.33		2.06	0.
3	8	69	5.75	3.0	0.0	1.5	6.	0.41		1.35	0.
3	22	69	4.90	4.0	0.0	0.0	6.	0.11		14.61	0.
4	3	69	4.65	5.0	0.2	0.0	6.	0.12		24.35	656.
4	18	69	5.10	5.0	0.0	0.2	8.	0.20		6.49	0.
5	1	69	5.10	2.5	0.0	0.0	8.	0.23		5.95	0.
5	16	69	4.90	2.5	0.0	0.0	7.	0.18		6.49	0.
6	11	69	5.60	2.0	0.0	0.5	9.	0.29		1.08	0.
6	25	69	5.65	2.5	0.0	1.0	9.	0.07		1.35	0.
7	23	69	5.80	2.0	0.0	1.5	4.	1.27		0.76	0.
8	15	69	5.60	3.0	0.0	0.5	5.	1.32		0.87	0.
9	4	69	5.65	3.5	0.0	1.0	7.	1.15		0.46	0.
10	7	69	5.40	3.0	0.0	0.5	6.	1.08		0.49	0.
10	23	69	5.40	2.5	0.0	1.0	7.	0.19		0.42	0.

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MINIMUM	4.65	2.0	0.0	0.0	0.07
MAXIMUM	5.80	5.0	1.5	11.	1.32
AVERAGE	5.26	3.2	0.5	7.	0.40

SAMPLE LOCATION 5956
 EAST BRANCH CLARION RIVER
 DRAINAGE AREA 3215.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
11	29	68	4.85	5.4	0.0	0.0	19.	0.08		15.77	0.
12	12	68	4.70	6.6	0.2	0.0	12.	0.11		7.57	269.
12	20	68	4.75	5.2	0.0	0.0	11.	0.12		5.11	143.
2	5	69	4.35	6.0	1.0	0.0	11.	0.12		13.25	428.
2	13	69	4.40	8.0	0.5	0.0	10.	0.09		4.79	207.
2	26	69	4.65	7.0	0.5	0.0	15.	0.23		2.40	90.
3	8	69	4.70	5.5	0.2	0.0	15.	0.22		1.58	47.
3	22	69	4.70	5.5	0.2	0.0	9.	0.10		17.03	505.
4	3	69	4.40	6.5	1.5	0.0	11.	0.07		28.39	995.
4	18	69	4.55	10.0	4.0	0.0	14.	0.13		7.57	408.
5	1	69	4.60	7.5	2.0	0.0	14.	0.07		6.94	281.
5	16	69	4.50	6.0	1.0	0.0	15.	0.08		7.57	245.
6	11	69	4.45	7.5	1.0	0.0	15.	0.12		1.26	51.
6	25	69	4.50	7.0	1.0	0.0	17.	0.08		1.58	60.
7	23	69	4.70	5.5	0.5	0.0	15.	0.30		0.88	26.
8	15	69	4.55	5.5	0.5	0.0	17.	0.30		1.01	30.
9	4	69	4.60	4.0	0.5	0.0	23.	0.54		0.54	12.
10	7	69	4.85	4.0	0.0	0.0	15.	0.91		0.57	0.
10	23	69	4.90	3.0	0.0	0.0	13.	0.14	0.3	0.49	0.

MINIMUM	4.35	3.0	0.0	9.	0.07
MAXIMUM	4.90	10.0	4.0	23.	0.91
AVERAGE	4.62	6.1	0.8	14.	0.20

SAMPLE LOCATION 5957
 EAST BRANCH CLARION
 DRAINAGE AREA 5688.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
12	20	68	4.60	6.5	0.2	0.0	12.	0.14		9.04	317.
4	3	69	4.45	6.0	1.0	0.0	11.	0.11		50.23	1624.
4	13	69	4.45	8.0	3.0	0.0	15.	0.22		23.44	1011.
5	1	69	4.45	7.0	2.0	0.0	14.	0.11		12.28	463.
5	16	69	4.40	6.5	2.0	0.0	14.	0.10		13.39	469.
6	11	69	4.50	5.0	2.0	0.0	17.	0.18		2.23	60.

MINIMUM	4.40	5.0	0.2	0.0	11.	0.10
MAXIMUM	4.60	8.0	3.0	0.0	17.	0.22
AVERAGE	4.47	6.5	1.7	0.0	14.	0.14

SAMPLE LOCATION 5958
 EAST BRANCH CLARION
 DRAINAGE AREA 7901.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID. PPD
12	20	68	4.85	5.3	0.0	0.0	11.	0.11		10.05	0.
4	3	69	4.50	5.5	0.5	0.0	9.	0.08	0.2	55.82	1655.
4	18	69	4.60	6.0	1.0	0.0	14.	0.12		14.88	481.
5	1	69	4.65	4.0	1.0	0.0	13.	0.08		13.64	294.
5	16	69	4.65	4.0	0.5	0.0	12.	0.07		14.88	321.
6	11	69	4.85	3.5	0.0	0.0	15.	0.10		2.48	0.

MINIMUM
 MAXIMUM
 AVERAGE

4.50	3.5	0.0	9.	0.07
4.85	6.0	1.0	15.	0.12
4.68	4.7	0.5	12.	0.09

SAMPLE LOCATION 5959
 E. B. C. R. ABOVE SLACKWATER
 DRAINAGE AREA 12570.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
2	5	69	4.85	3.5	0.0	0.0	8.	0.09		51.45	0.
4	3	69	4.75	4.5	0.0	0.0	8.	0.05		110.25	0.
4	18	69	4.95	6.0	0.0	0.0	10.	0.12		29.40	0.
5	1	69	4.95	6.0	0.0	0.0	11.	0.05		26.95	0.
5	16	69	4.95	3.0	0.0	0.0	9.	0.04		29.40	0.
6	11	69	5.80	2.5	0.0	0.5	10.	0.05		4.90	0.
6	25	69	5.95	2.0	0.0	0.5	10.	0.04		6.13	0.
7	23	69	6.00	1.5	0.0	1.5	14.	0.07		3.43	0.
8	15	69	5.90	2.3	0.0	3.2	15.	0.06		3.92	-19.
9	4	69	5.95	2.5	0.0	3.0	18.	0.05		2.08	- 6.
10	7	69	5.45	1.5	0.0	0.5	14.	0.10		2.20	0.
10	23	69	5.30	2.0	0.0	0.5	12.	0.07		2.61	0.
			Minimum	1.5	0.0	0.0	8.	0.04			
			Maximum	6.0	0.0	3.2	18.	0.12			
			Average	3.1	0.0	0.1	12.	0.09			

SAMPLE LOCATION 5960
RESERVOIR SOUTH OF INSTANTER RUN

Mo.	Day	Year	PH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L
1	24	69	5.70	1.0	0.0	3.0	10.	0.53
2	4	69	5.15	3.0	0.0	0.5	7.	0.12
4	2	69	5.15	2.0	0.0	0.2	7.	0.03
4	17	69	5.00	4.0	0.0	0.0	13.	0.05
4	30	69	4.95	3.0	0.0	0.0	19.	0.06
5	15	69	4.90	3.5	0.0	0.0	20.	0.08
6	13	69	5.05	2.5	0.0	0.0	15.	0.03
6	26	69	5.10	2.5	0.0	0.0	19.	0.04
7	23	69	5.00	3.5	0.0	0.0	20.	0.03
8	16	69	4.90	3.5	0.0	0.0	18.	0.02
9	5	69	4.95	3.0	0.0	0.0	20.	0.03
10	8	69	5.00	3.0	0.0	0.0	23.	0.03
10	23	69	5.00	3.0	0.0	0.0	21.	0.04
Minimum			4.90	1.0	0.0	0.0	7.	0.02
Maximum			5.70	4.0	0.0	3.0	23.	0.53
Average			5.07	2.9	0.0	0.3	16.	0.08

SAMPLE LOCATION 5961
RESERVOIR SOUTH OF SWAMP CREEK

Mo.	Day	Year	PH	Total Acid--- MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L
1	8	69	5.00	2.9	0.0	0.0	10.	0.18
1	24	69	5.05	2.0	0.0	0.0	12.	0.16
2	4	69	5.25	3.0	0.0	0.5	9.	0.08
4	17	69	5.00	4.0	0.0	0.0	13.	0.18
4	30	69	4.95	4.0	0.0	0.0	16.	0.07
5	15	69	4.90	3.5	0.0	0.0	14.	0.08
6	13	69	5.05	2.5.	0.0	0.0	13.	0.06
6	26	69	5.05	2.5	0.0	0.0	17.	0.07
8	17	69	4.85	4.0	0.0	0.0	21.	0.03
9	6	69	4.85	2.5	0.0	0.0	22.	0.05
10	8	69	4.80	3.5	0.0	0.0	22.	0.06
10	24.	69	4.75	4.0	0.5	0.0	19.	0.05
Minimum			4.75	2.0	0.0	0.0	9.	0.03
Maximum			5.25	4.0	0.5	0.5	22.	0.18
Average			4.95	3.2	0.0	0.0	16.	0.09

SAMPLE LOCATION 5962
RELEASE FROM RESERVOIR

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD	
1	8	69	4.50	7.0	0.4	0.0	32.	0.25		42.	1585.	
1	14	69	4.40	7.3	0.4	0.0	34.	0.33		40.	1574.	
1	24	69	4.50	7.5	1.0	0.0	35.	0.28		40.	1617.	
2	4	69	4.35	8.5	2.0	0.0	39.	0.27		44.	2016.	
2	12	69	4.40	9.5	2.0	0.0	29.	0.33		149.	7630.	
2	25	69	4.30	11.5	2.0	0.0	47.	0.25	1.5	43.	2665.	
3	7	69	4.30	10.0	2.5	0.0	45.	0.32	1.3	76.	4096.	
3	20	69	4.35	9.5	1.5	0.0	46.	0.55		33.	1690.	
4	2	69	4.70	6.5	0.2	0.0	32.	0.36	0.9	38.	1331.	
4	17	69	4.55	7.0	1.0	0.0	32.	0.64	0.9	41.	1547.	
4	30	69	4.60	5.0	0.2	0.0	27.	0.50	0.8	42.	1132.	
5	15	69	4.70	3.0	0.2	0.0	26.	0.45		275.	4447.	
6	13	69	5.00	2.5	0.0	0.0	19.	0.16		147.	0.	
6	26	69	5.10	2.5	0.0	0.0	23.	0.42		149.	0.	
7	24	69	6.70	-4.0	0.0	29.0	22.	0.54	0.2	0.	0.	
8	17	69	4.90	3.0	0.0	0.0	24.	0.13		225.	0.	
9	5	69	4.85	3.5	0.0	0.0	27.	0.14		190.	0.	
10	8	69	4.75	4.5	0.5	0.0	20.	0.23		139.	3371.	
10	24	69	4.70	4.5	0.5	0.0	22.	0.23		139.	3371.	
11	19	69	4.75	4.0	0.5	0.0	23.	0.24		41.	884.	
12	18	69	4.80	3.5	0.0	0.0	25.	0.28		39.	0.	
MINIMUM				2.5	0.0	0.0	19.	0.13				
MAXIMUM				11.5	2.5	29.0	47.	0.64				
AVERAGE				5.9	0.7	0.0	30.	0.32				

SAMPLE LOCATION 5964
E. B. C. R. AT JOHNSONBORG
DRAINAGE AREA 69524.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
3	7	69	5.05	6.5	0.0	0.0	49.	0.35			
6	13	69	5.40	3.0	0.0	0.5	--	---			
9	6	69	5.35	2.5	0.0	0.3	31.	0.19			
	Minimum		5.05	2.5	0.0	0.0	31.	0.19			
	Maximum		5.40	6.5	0.0	0.5	49.	0.35			
	Average		5.27	4.0	0.0	0.3	40.	0.27			

SAMPLE LOCATION 5965
BUCKTAIL MINE SEEPAGE

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
4	19	69	3.45	640.0	225.0	0.0	1380.	2.58	45.0	0.04	147.
4	30	69	3.60	475.0	230.0	0.0	1290.	1.93		0.04	109.
5	29	69	3.40	650.0	210.0	0.0	1290.	2.16	57.0	0.04	150.
6	27	69	3.45	632.0	207.0	0.0	1330.	2.16		0.04	145.
7	24	69	3.35	385.0	165.0	0.0	1420.	2.54	57.0	0.04	89.
8	17	69	3.45	490.0	195.0	0.0	1460	2.63		0.04	113.
9	5	69	3.40	510.0	210.0	0.0	1590.	3.00		0.04	117.
10	9	69	3.35	510.0	235.0	0.0	1500.	3.85		0.04	117.
10	24	69	3.25	895.0	355.0	0.0	1560.	3.64		0.04	206.
11	19	69	3.20	906.0	340.0	0.0	1140.	5.50		0.04	208.
	Minimum		3.20	385.0	165.0	0.0	1140.	1.93			
	Maximum		3.60	906.0	355.0	0.0	1590.	5.50			
	Average		3.39	793.0	204.2	0.0	1396.	3.00			

SAMPLE LOCATION 5966
 NESHADKA NO.2 MINE SEAL

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
5	29	69	4.95	135.0	85.0	0.0	1330.	117.00	22.0	0.02	15.
6	13	69	4.90	282.0	10.0	0.0	1290.	127.00		0.02	30.
6	27	69	5.25	290.0	15.0	0.0	1650.	108.00		0.02	31.
7	24	69	5.65	313.0	26.0	0.0	1550.	149.00	22.0	0.02	34.
8	17	69	5.35	295.0	10.0	0.0	1590.	145.00		0.02	32.
9	5	69	5.55	325.0	0.0	1.5	1670.	157.00		0.02	35.
10	9	69	5.20	325.0	0.0	0.2	2060.	143.00		0.02	35.
10	24	69	5.35	315.0	0.0	2.0	1990.	141.00		0.02	34.
11	19	69	5.20	340.0	0.0	0.2	1670.	164.00		0.02	37.
12	18	69	5.20	270.0	0.0	0.0	1500.	111.00		0.02	29.

MINIMUM	4.90	135.0	0.0	0.0	0.0	1290.	108.00
MAXIMUM	5.65	340.0	85.0	2.0	2060.	164.00	
AVERAGE	5.26	289.0	14.6	0.4	1636.	136.00	

SAMPLE LOCATION 5967
 TRIBUTARY JOHNSON RUN
 DRAINAGE AREA 60.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
5	29	69	3.50	108.0	81.0	0.0	2278.	1.69	52.0	0.12	71.
6	13	69	3.60	120.0	82.0	0.0	2321.	1.97	55.0	0.03	21.
6	27	69	3.60	220.0	76.0	0.0	1977.	1.64		0.04	45.
7	24	69	3.40	210.0	47.0	0.0	1504.	1.93		0.02	28.
8	17	69	3.45	305.0	140.0	0.0	1375.	2.11		0.06	96.
9	5	69	3.30	295.0	122.0	0.0	1590.	2.02		0.02	30.
10	9	69	3.40	285.0	135.0	0.0	1358.	2.54		0.01	17.
10	24	69	3.50	218.0	59.0	0.0	1564.	7.90		0.01	16.
11	19	69	3.65	138.0	29.0	0.0	1109.	6.63		0.51	378.
12	18	69	3.55	315.0	32.0	0.0	1526.	13.63		0.15	259.

MINIMUM	3.30	108.0	29.0	0.0	1109.	1.64
MAXIMUM	3.65	315.0	140.0	0.0	2321.	13.63
AVERAGE	3.49	221.4	80.3	0.0	1660.	4.21

SAMPLE LOCATION 5968
SMITH MINE SEEPAGE

MO. DAY YR.	PH	TOTAL ACID		ALK.	SO ₄	TOTAL IRON		MN	FLOW CFS	ACID PPD
		MG/L	MG/L			MG/L	MG/L			
5 29 69	3.25	330.0	145.0	0.0	1370.	18.80	80.0	0.002	4.	
6 27 69	3.20	315.0	143.0	0.0	1420.	2.60		0.002	3.	
10 24 69	3.30	320.0	159.0	0.0	1540.	7.44		0.002	3.	
11 20 69	3.15	345.0	174.0	0.0	1360.	6.26		0.002	4.	
MINIMUM	3.15	315.0	143.0	0.0	1360.	2.60				
MAXIMUM	3.30	345.0	174.0	0.0	1540.	18.80				
AVERAGE	3.23	328.0	155.0	0.0	1422.	9.28				

SAMPLE LOCATION 5969

YONKERS RUN

DRAINAGE AREA 274.0 ACRES

MO. DAY YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
2 12 69	5.25	2.5	0.0	0.2	9.	0.04		0.36	0.
2 25 69	5.15	2.5	0.0	1.0	10.	0.03		0.17	0.
3 7 69	5.15	3.0	0.0	0.5	8.	0.06		0.11	0.
7 23 69	5.50	3.0	0.0	0.5	12.	0.45		0.06	0.
8 16 69	5.35	2.5	0.0	0.5	15.	0.29		0.09	0.

MINIMUM
MAXIMUM
AVERAGE

5.15
5.50
5.28

2.5
3.0
2.7

0.0
0.0
0.0

0.2
1.0
0.5

8.
15.
11.

0.03
0.45
0.17

SAMPLE LOCATION 5970
 TRIBUTARY YONKERS RUN
 DRAINAGE AREA 87.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
2	12	69	4.55	25.0	2.5	0.0	103.	0.11	3.4	0.10	14.
2	25	69	4.50	21.0	3.0	0.0	116.	0.07	2.7	0.05	5.
3	7	69	4.35	21.0	8.5	0.0	232.	0.15	3.2	0.03	3.
7	23	69	4.75	8.5	0.2	0.0	103.	0.53		0.02	1.
8	16	69	6.00	12.0	0.0	5.0	107.	2.73		0.02	0.
9	5	69	5.85	13.0	0.0	7.5	122.	2.11		0.01	0.
10	24	69	4.40	27.0	3.5	0.0	159.	1.74		0.01	1.

MINIMUM
 MAXIMUM
 AVERAGE

4.35	8.5	0.0	103.	0.07
6.00	27.0	7.5	232.	2.73
4.91	18.2	1.8	135.	1.06

SAMPLE LOCATION 5971
H.C. QUINN MINE SEEPAGE

MO. DAY YR.	PH	TOTAL ACID		ALK.	SO4	TOTAL IRON		FLOW CFS	ACID PPD
		MG/L	MG/L			MG/L	MG/L		
4 19 69	3.50	330.0	76.0	0.0	1140.	13.20	115.0	0.03	53.
5 29 69	3.40	615.0	182.0	0.0	1800.			0.03	99.
MINIMUM	3.40	330.0	76.0	0.0	1140.				
MAXIMUM	3.50	615.0	182.0	0.0	1800.				
AVERAGE	3.45	478.0	129.0	0.0	1470.				

SAMPLE LOCATION 5972
 EAST BRANCH CLARION
 DRAINAGE AREA 4525.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
4	3	69	4.30	7.5	1.5	0.0	11.	0.09		39.96	1615.
4	18	69	4.30	9.0	4.5	0.0	19.	0.30		10.66	517.
5	1	69	4.35	8.0	3.5	0.0	18.	0.14		9.77	421.
5	16	69	4.30	7.5	3.0	0.0	20.	0.13		10.66	431.
6	11	69	4.10	8.0	3.5	0.0	21.	0.23		1.78	77.
MINIMUM				7.5	1.5	0.0	11.	0.09			
MAXIMUM				9.0	4.5	0.0	21.	0.30			
AVERAGE				8.0	3.2	0.0	18.	0.18			

SAMPLE LOCATION 5973

EAST BRANCH CLARION

DRAINAGE AREA 8516.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD
4	3	69	4.65	4.5	0.5	0.0	9.	0.08		60.16	1459.
4	18	69	4.70	6.0	1.0	0.0	13.	0.11		16.04	519.
5	16	69	4.85	3.0	0.0	0.0	11.	0.06		16.04	0.
6	11	69	5.20	2.5	0.0	0.2	13.	0.08		2.67	0.

MINIMUM
MAXIMUM
AVERAGE

2.5 0.0 0.0 9. 0.06
6.0 1.0 0.2 13. 0.11
4.0 0.4 0.0 12. 0.08

SAMPLE LOCATION 5974
SLACKWATER SOUTH OF EBCR

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L
4	3	69	4.75	4.5	0.2	0.0	6.	0.03
4	18	69	5.00	4.0	0.0	0.0	8.	0.06
5	1	69	5.00	3.0	0.0	0.0	12.	0.05
5	16	69	5.05	3.0	0.0	0.0	9.	0.04
6	11	69	5.35	2.0	0.0	0.5	11.	0.04
Minimum				2.0	0.0	0.0	6.	0.03
Maximum				4.5	0.2	0.5	12.	0.06
Average				3.3	0.0	0.1	9.	0.04

SAMPLE LOCATION 5975

DUTCH CREEK

DRAINAGE AREA 308.0 ACRES

MO.	DAY	YR.	PH	TOTAL ACID MG/L	FREE ACID MG/L	ALK. MG/L	SO4 MG/L	TOTAL IRON MG/L	MN MG/L	FLOW CFS	ACID PPD	
3	7	69	6.15	1.0	0.0	2.5	9.	0.04		0.18	-1.	
6	13	69	6.40	0.5	0.0	3.5	0.	0.0		0.12	-2.	
9	6	69	7.15	0.0	0.0	11.0	9.	0.05		0.17	-10.	
MINIMUM				0.0	0.0	2.5	0.	0.0				
MAXIMUM				1.0	0.0	11.0	9.	0.05				
AVERAGE				0.5	0.0	5.7	6.	0.03				

SAMPLE LOCATION 5976
M16 (Very slight seepage-one-time -from Gum Boot Mine)

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
5	29	69	3.10	87.0	69.0	0.0	116.0	4.04			

SAMPLE LOCATION 5977
UNNAMED TRIB. GUM BOOT RUN
DRAINAGE AREA 410.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
3	6	69	4.50	5.0	1.0	0.0	6.	0.06			

SAMPLE LOCATION 5978
TRIB. OF SEVENMILE RUN
DRAINAGE AREA

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
2	26	69	5.70	15.0	0.0	1.0	7.	0.04			

SAMPLE LOCATION 5979
(Reservoir near Location 5960)

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
4	30	69	5.00	3.0	0.0	0.0	15.	0.05			
5	15	69	4.95	3.0	0.0	0.0	14.	0.04			
6	13	69	5.05	2.5	0.0	0.0	13.	0.03			
6	26	69	5.10	2.0	0.0	0.0	15.	0.04			
7	23	69	5.00	3.0	0.0	0.0	20.	0.02			
8	16	69	4.85	3.5	0.0	0.0	20.	0.02			
	Minimum		4.85	2.0	0.0	0.0	20.	0.02			
	Maximum		5.10	3.5	0.0	0.0	13.	0.05			
	Average		4.99	2.8	0.0	0.0	16.	0.03			

SAMPLE LOCATION 5980
TRIB. OF JOHNSON RUN
DRAINAGE AREA 37.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
3	7	69	5.00	19.0	0.0	0.0	82.	1.22		0.02	0.
7	24	69	3.10	257.0	172.0	0.0	353.	3.95		0.01	14.
10	9	69	4.95	20.5	0.0	0.0	114.	0.29		0.005	0.
10	24	69	4.75	33.0	0.0	0.0	120.	0.91		0.006	1.
	Minimum		3.10	19.0	0.0	0.0	82.	0.29			
	Maximum		5.00	257.0	172.0	0.0	353.	3.95			
	Average		4.45	82.4	43.0	0.0	169.	1.59			

SAMPLE LOCATION 5981
 UNNAMED TRIB. of E.B.C.R.
 DRAINAGE AREA 857.0 Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
3	7	69	5.50	2.0	0.0	0.5	11.	0.03			

SAMPLE LOCATION 5982
 SOUTH FORK STRAIGHT CREEK
 DRAINAGE AREA 5721. Acres

Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L	MN MG/L	Flow CFS	Acid PPD
7	22	69	6.35	0.0	0.0	4.5	7.	0.07		1.28	-31.
10	23	69	6.60	0.5	0.0	4.5	7.	0.08		0.58	-13.

MISCELLANEOUS TESTS

SAMPLE LOCATION	Mo.	Day	Year	pH	Total Acid MG/L	Free Acid MG/L	Alk. MG/L	SO4 MG/L	Total Iron MG/L
26(Headwaters of Cold Spring Run	2	13	69	4.90	3.0	0.0	0.0	5.	0.07
	2	26	69	5.10	3.0	0.0	0.2	7.	0.10
29A (Pond near Location 5932)	3	22	69	5.30	2.5	0.0	2.0	3.	1.45
32A (Spring near Location 5933)	2	26	69	5.00	3.0	0.0	0.0	11.	0.29
32S (Pond at clay mine strip pit near Location 5933)	2	26	69	4.70	3.0	0.0	0.0	12.	0.21
57A (near Location 5969)	2	13	69	5.20	2.5	0.0	0.2	8.	0.04
	2	25	69	5.20	2.5	0.0	1.0	11.	0.03
	3	7	69	5.15	3.5	0.0	0.5	9.	0.06
67N (Drainage ditch north near Location 5903	2	25	69	3.10	250.0	110.0	0.0	1500.0	---
67S Drainage ditch south near Location 5903)	2	25	69	2.95	665.0	315.0	0.0	1810.0	---
67W (Drainage ditch west near Location 5903)	2	25	69	3.60	115.0	62.0	0.0	1420.	---