

APPENDIX III

SAMPLING STATION DATA SHEETS

These sheets indicate the chemical analysis of the sampling stations for the one-year period they were monitored on a monthly basis. The samples were analyzed to determine the pH, acidity, alkalinity, iron, ferrous and sulfate which are expressed in milligrams per liter. Flow in gallons per minute is included when known from the drainage outlets. The pollution load is also included and reported in pounds per day, the acidity was calculated during the period of 3/17/72 to 9/25/72 when the analysis was done by the Cold Acidity Method.

SAMPLING STATION DATA CHARTS

These charts graphically illustrate the results of the water samples at critical locations.

PRECIPITATION CHART

Graphically shown, is the monthly precipitation during the course of this study. Also shown, is the average monthly precipitation as compiled over a ten-year period.

SAMPLING
STATION DATA
SHEETS

STATION NO. 1
ELEV. 1173
6.9 Miles to
Station No. 9

Date	Flow GPM	Ph	Laboratory Analysis Results									
			Acidity		Alkalinity		Iron Total		Ferrous		Sulfate	
			MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD
11-3-71	1,414	6.9			48	814	.1	2	0	0	100	1,690
12-8-71	19,029	6.4			42	9,589	.9	205	0	0	70	15,981
1-18-72	NFR	7.6			24		.3		0		44	
2-17-72	6,777	7.0			20	1,626	.7	57	0	0	34	2,765
3-17-72	3,501	7.8	2.0	84	23	966	.29	12	.16	7	24	1,008
4-19-72	16,785	6.5	9.0	1,809	15	3,015	.21	42	.12	24	62	12,488
5-18-72	2,154	7.1	3.0	77	31	800	2.12	55	.35	9	39	1,008
6-16-72	2,244	7.4	2.0	54	44	1,184	1.23	33	.08	2	58	1,562
7-20-72	1,436	7.7	5.0	86	38	654	1.40	24	.08	1	38.5	663
8-22-72	408	6.8	9.0	43	53	254	.26	1	.08	1	140	685
9-25-72	2,872	6.6	10.0	340	29	998	.63	22	.06	2	128	4,403
10-26-72	2,244	6.5	2.0	54	31	834	.18	5	.02	1	37	996
Average	5,351	7.0	5.3	318	33	1,885	.69	42	.12	4	65	3,932

STATION NO. 2
ELEV. 1153
1.1 Miles to
Station No. 1

11-3-71	987	7.0			48	566	.1	1	0	0	95	1,125
12-8-71	25,447	6.5			46	14,044	1.2	366	0	0	42	12,825
1-18-72	NFR	7.6			20		.4		0		42	
2-17-72	NFR	6.9			24		.7		0		30	
3-17-72	6,642	6.0	6.0	478	24	1,913	.29	23	.10	8	33	2,630
4-19-72	20,151	6.8	8.0	1,934	10	2,418	.55	133	.16	39	55	13,300
5-18-72	5,430	7.4	2.0	130	29	1,888	.36	23	.08	5	44	2,864
6-16-72	3,770	7.6	4.0	181	47	2,124	1.23	56	.02	1	92	4,162
7-20-72	3,424	6.8	5.0	205	35	1,435	.55	23	.12	5	59	2,424
8-22-72	332	7.7	6.0	24	53	211	.26	1	.06	1	160	637
9-25-72	3,142	6.5	12	452	28	1,056	.26	10	.06	2	124	4,675
10-26-72	4,264	5.6	0	0	34	1,737	.27	14	.10	5	48	2,456
Average	7,359	6.9	6.1	486	33	2,739	.51	65	.09	6	69	4,710

Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.
 NF - No Flow.
 NFR - No Flow Recorded.

SAMPLING
STATION DATA
SHEETS

Date	Flow GPM	Ph	Laboratory Analysis Results										
			Acidity		Alkalinity		Iron Total		Ferrous		Sulfate		
			MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	
11-3-71	NF												
12-8-71	NF												
1-18-72	NFR	6.3		120		35		20				940	
2-17-72	NFR	5.8		140		21.0		6.5				950	
3-17-72	NFR	6.4	103	125		6.3		6.1				830	
4-19-72	NFR	5.6	145	46		.36		.33				810	
5-18-72	NFR	6.5	83	194		10.9		.65				1,080	
6-16-72	NFR	6.4	122	114		30.8		1.55				520	
7-20-72	NFR	6.3	119	104		24.0		4.45				800	
8-22-72	NFR	6.5	140	188		45.5		3.85				930	
9-25-72	NFR	6.2	138	172		39.5		5.2				1,200	
10-26-72	NFR	5.7	0	73		30.8		.16				730	
Average		6.2	121	131		24.4		4.88				879	
11-3-71	NF												
12-8-71	NF												
1-18-72	NFR	6.3		56		30		22.5				2,250	
2-17-72	NF												
3-17-72	NFR	6.3	110	85		6.1		4.88				850	
4-19-72	812	4.0	186	1,804	0	0	.80	8	.08	1		720	7,016
5-18-72	98	5.8	64	70	32	35	15.8	17	.63	1		830	976
6-16-72	NF												
7-20-72	315	6.1	187	707	83	314	29.5	112	8.95	34		640	2,419
8-22-72	NF												
9-25-72	NF												
10-26-72	NF												
Average	408	5.7	137	860	51	116	16.4	46	7.41	12		1,058	3,470

Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.

NF - No Flow.

NFR - No Flow Recorded.

"C 6"
STATION NO. 3
ELEV. 1137
2.4 Miles to
Station No. 1

"MP 1"
STATION NO. 4
ELEV. 1140
2.4 Miles to
Station No. 1

SAMPLING
STATION DATA
SHEETS

Date	Flow GPM	Ph	Laboratory Analysis Results									
			Acidity		Alkalinity		Iron Total		Ferrrous		Sulfate	
			MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD
11-3-71	1,179	6.3			250	3,525	12	169	.1	1	1,000	14,148
12-8-71	1,279	6.3			290	4,437	13.5	207	1.7	26	650	9,976
1-18-72	2,154	6.4			74	1,909	30	774	18	464	1,850	47,819
2-17-72	2,033	5.8			126	3,062	14.0	340	7.0	170	775	18,907
3-17-72	NFR	6.5	60		29		5.0		.5	800	800	
4-19-72	2,073	5.5	148	3,670	40	992	.24	6	.10	2	970	24,130
5-18-72	1,829	6.0	115	2,519	78	1,708	16.3	357	.42	9	820	17,997
6-16-72	1,759	6.4	118	2,490	124	2,616	22.2	468	3.2	58	400	8,443
7-20-72	2,406	6.2	153	4,406	104	2,995	27.8	801	.90	26	690	19,922
8-22-72	1,044	6.1	188	2,350	110	1,375	32.8	410	13.5	169	930	11,651
9-25-72	2,154	6.0	167	4,309	135	3,483	29.5	761	14.2	366	430	11,115
10-26-72	1,530	5.8	0	0	122	2,233	10.9	199	.03	1	550	10,098
Average	1,767	6.1	135	2,917	124	2,576	17.8	408	4.97	117	822	17,655
11-3-71	3,007	6.5			170	6,120	12	432	.1	4	550	23,455
12-8-71	31,597	6.6			40	15,160	3.6	1,364	.2	76	105	39,812
1-18-72	NFR	6.6			116		10		2		390	
2-17-72	13,374	6.1			42	5,720	6.5	1,040	.3	48	260	41,727
3-17-72	12,522	6.7	18	2,700	24	3,600	.59	89	.48	72	144	21,638
4-19-72	40,706	6.8	29	14,152	17	830	.39	190	.13	53	176	85,971
5-18-72	8,078	6.3	44	4,264	57	5,523	8.6	833	.55	53	490	47,499
6-16-72	6,642	6.6	59	4,702	89	7,093	15.3	1,219	.08	6	295	23,513
7-20-72	7,257	6.3	55	4,785	72	6,264	15.8	1,375	.94	82	420	36,575
8-22-72	2,738	6.1	109	3,575	108	3,542	25.8	846	.24	8	660	21,685
9-25-72	8,034	6.1	60	5,784	72	6,941	16.0	1,542	.08	8	345	33,261
10-26-72	7,248	5.8	0	0	49	4,258	16.3	1,416	.02	2	255	22,179
Average	12,837	6.4	53	5,709	69	5,914	10.9	941	.42	38	349	36,120

Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.

NF - No Flow.

NFR - No Flow Recorded.

SAMPLING STATION DATA SHEETS	Date	Flow GPM	Laboratory Analysis Results										
			Ph	Acidity		Alkalinity		Iron Total		Ferrous		Sulfate	
				MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD
"B 6" STATION NO. 7 ELEV. 1122 4.9 Miles to Station No. 1	11-3-71	80	6.4			178	171	2.4	2	.1	1	340	326
	12-8-71	96	6.3			154	169	.1	1	0	0	340	392
	1-18-72	NFR	6.8			128		.6		0		235	
	2-17-72	214	6.4			158	390	.1	1	0	0	380	976
	3-17-72	240	6.5	41	115	122	342	.18	1	.06	1	205	590
	4-19-72	300	6.1	49	176	92	331	.24	1	.08	1	188	677
	5-18-72	240	6.9	36	101	112	314	.26	1	.06	1	256	737
	6-16-72	216	6.8	76	190	152	380	.09	1	.02	1	295	765
	7-20-72	240	6.5	8.2	23	122	342	.23	1	.06	1	370	1,066
	8-22-72	240	6.2	107	300	136	381	.18	1	.06	1	370	1,066
	9-25-72	240	6.2	97	272	144	403	.16	1	.06	1	326	912
	10-26-72	222	5.8	0	0	115	299	.24	1	.06	1	91	242
	Average	212	6.4	59	168	134	320	.40	1	.04	1	283	704
STATION NO. 8 ELEV. 1091 5.4 Miles to Station No.1	11-3-71	5,161	7.2			94	5,819	1.3	80	0	0	280	17,341
	12-8-71	53,993	6.8			20	12,958	3.6	2,332	.1	65	95	61,552
	1-18-72	NFR	7.2			36		4.25		.1		250	
	2-17-72	17,630	6.8			44	9,310	3.5	741	.2	42	210	44,448
	3-17-72	18,535	6.1	26	5,782	12	2,669	.96	214	.55	122	66	14,680
	4-19-72	58,568	6.0	13	9,136	25	17,570	.39	274	.06	42	128	89,960
	5-18-72	10,996	7.0	8	1,055	53	6,991	3.06	404	.18	24	430	56,739
	6-16-72	13,477	7.5	4	647	64	10,349	4.36	705	.03	5	256	41,401
	7-20-72	13,823	6.7	10	1,658	67	11,109	4.4	730	.10	17	400	66,350
	8-22-72	3,994	6.8	15	719	101	4,838	5.9	283	.13	6	780	37,384
	9-25-72	10,457	6.9	15	1,881	69	8,653	3.6	451	.02	3	306	38,398
	10-26-72	9,515	6.0	0	0	63	7,182	3.16	360	.06	7	194	22,151
	Average	19,651	6.8	13		54	2,983	3.2	598	.13	30	283	44,582

Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.

NF - No Flow.

NFR - No Flow Recorded.

SAMPLING
STATION DATA
SHEETS

Laboratory Analysis Results

Date	Flow GPM	Ph	Acidity		Alkalinity		Iron Total		Ferrrous		Sulfate	
			MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD
11-3-71	NFR	7.3			82		1.1		0		220	
12-8-71	NFR	6.8			20		3.8		.2		60	
1-18-72	NFR	7.3			30		2.75		.1		175	
2-17-72	NFR	6.6			22		2.7		.1		175	
3-17-72	NFR	7.4	7		36		.85		.35		59	
4-19-72	NFR	7.4	10		22		.55		.03		69	
5-18-72	NFR	7.1	4		37		2.36		.06		184	
6-16-72	NFR	7.6	3		43		.88		.02		194	
7-20-72	NFR	7.0	7		53		.93		.10		256	
8-22-72	NFR	6.7	13		93		.41		.03		680	
9-25-72	NFR	7.1	8		51		4.24		.10		290	
10-26-72	NFR	6.1	0		48		.96		.03		252	
Average		7.0	7		45		1.79		.09		218	
11-3-71	NFR	6.9			40		.9		0		105	
12-8-71	NFR	6.8			24		2.2		.1		70	
1-18-72	NFR	7.5			30		.3		0		105	
2-17-72	NFR	7.0			36		.4		0		105	
3-17-72	NFR	6.0	14		15		.2		.16		50	
4-19-72	NFR	7.4	7.0		21		.39		.06		65	
5-18-72	NFR	7.2	6		25		.36		.08		60	
6-16-72	NFR	7.4	2		29		1.13		.02		74	
7-20-72	NFR	7.3	9		92		.51		.12		66	
8-22-72	NFR	6.7	14		74		.29		.06		194	
9-25-72	NFR	7.1	8		42		.27		.03		116	
10-26-72	NFR	6.4	0		46		5.3		.08		252	
Average		7.0	9		40		1.02		.06		105	

STATION NO. 9
ELEV. 1069
5.4 Miles to
Station No. 1

STATION NO. 10
ELEV. 1101
4.3 Miles to
Station No. 1

Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.
NF - No Flow.
NFR - No Flow Recorded.

SAMPLING
STATION DATA
SHEETS

Date	Flow GPM	Laboratory Analysis Results										
		Ph	Acidity		Alkalinity		Iron Total		Ferrous		Sulfate	
			MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD
11-3-71	NFR	6.9			50		50		.1		210	
12-8-71	NF											
"B 3" STATION NO. 11 ELEV. 1141	1-18-72	NFR	6.5		96		.1		0		310	
	2-17-72	NFR	6.2		122		.8		0		390	
	3-17-72	NFR	6.3	50	125		.63		.20		225	
	4-19-72	NFR	5.9	72	121		.32		.06		23	
	5-18-72	NFR	6.4	80	116		1.18		.10		390	
	6-16-72	NF										
	7-20-72	NFR	6.3	93	104		1.58		.12		390	
	8-22-72	NF										
	9-25-72	NF										
	10-26-72	NFR	5.7	0	101		.26		.12		150	
	Average	NFR	6.3	74	104		6.8		.09		261	
<hr/>												
11-3-71	NF											
12-8-71	NF											
1-18-72	NF											
"B 2" STATION NO. 12 ELEV. 1187	2-17-72	NFR	6.7		94		.6		0		110	
	3-17-72	NFR	6.9	35	95		.24		.10		94	
	4-19-72	NFR	6.1	13	107		.32		.13		90	
	5-18-72	NFR	6.7	49	175		.52		.08		176	
	6-16-72	NFR	6.8	90	194		.27		.03		252	
	7-20-72	NFR	6.9	52	188		.58		.08		230	
	8-22-72	NFR	6.4	99	223		.26		.02		336	
	9-25-72	NFR	6.4	80	198		.29		.03		252	
	10-26-72	NFR	5.9	0	153		.18		.02		266	
	Average		6.5	60	159		.36		.05		201	

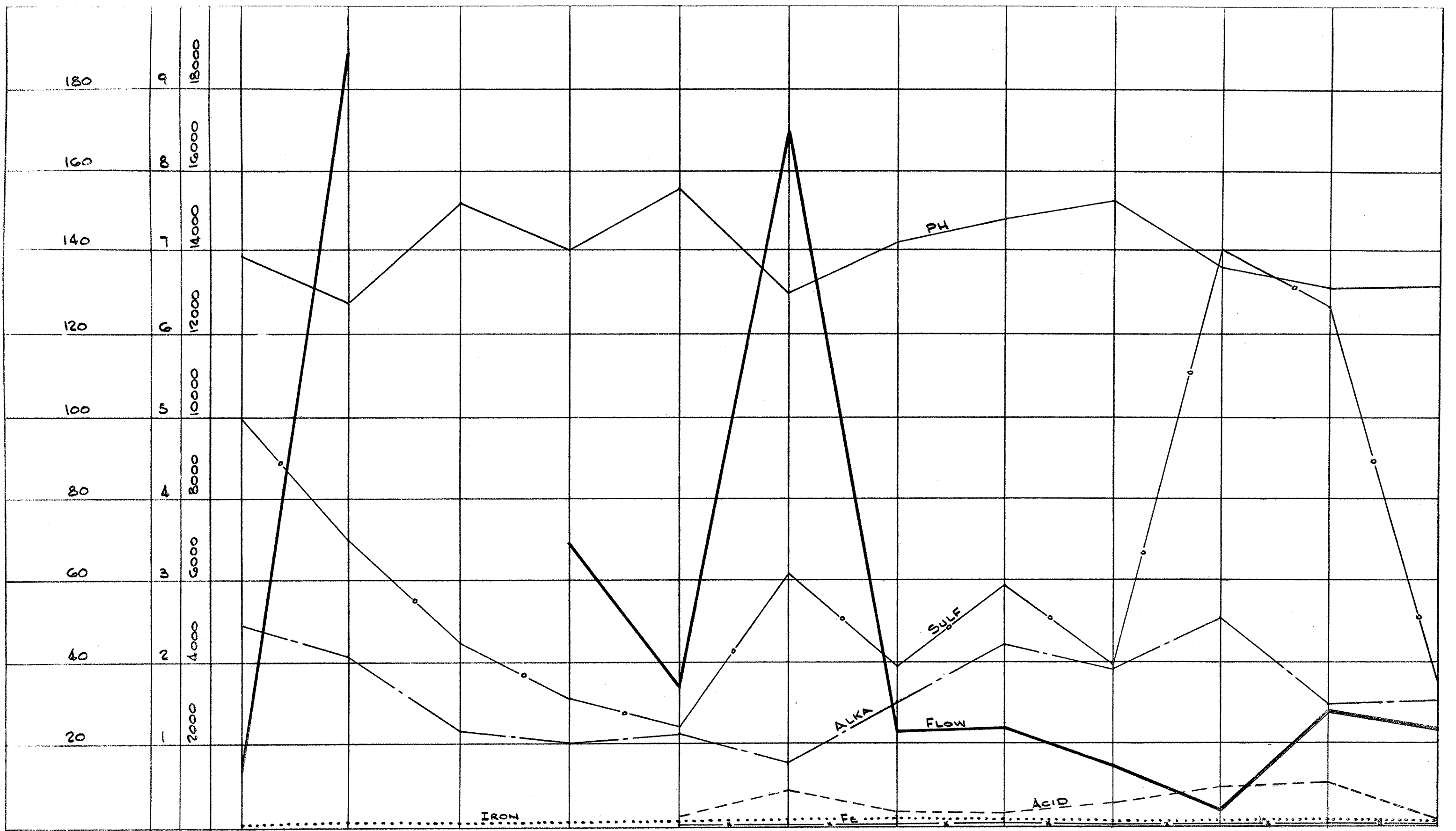
Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.

NF - No Flow.

NFR - No Flow Recorded.

SAMPLING STATION DATA SHEETS	Date	Flow GPM	Laboratory Analysis Results											
			Ph	Acidity		Alkalinity		Iron Total		Ferrous		Sulfate		
				MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	MG/L	PPD	
"MP 5" STATION NO. 15 ELEV. 1215 Samples Collected from Pool of Water. Flow was not Great Enough to Measure.	11-7-71	NF												
	12-8-71	NF												
	1-18-72	NF												
	2-17-72	NFR	4.0	4			.4		0			24		
	7-17-72	NFR	4.4	34		0	.36		.29			39		
	11-19-72	NFR	4.2	27		0	.29		.03			47		
	5-18-72	NFR	3.8	23		0	8.5		.48			56		
	6-16-72	NF												
	7-20-72	NF												
	8-22-72	NF												
	9-25-72	NF												
	10-26-72	NF												
	Average		4.1	22		0	2.38		.20			41.5		
"MP 6" STATION NO. 16 ELEV. 1357 No Flow Readings Taken From this Borehole Due To Discharge 200 Feet Below Surface.	9-22-71	NFR	4.4	274			205		154			1,350		
	2-17-72	NFR	1.5	360			110		3.4			2,000		
	3-17-72	NFR	3.0	675		0	315		15.75			3,150		
	11-19-72	NFR	3.3	580		0	123		1.82			1,600		
	5-18-72	NFR	2.8	516		0	96		10.95			2,300		
	6-16-72	NFR	3.4	668		0	195		67.0			880		
	7-20-72	NFR	3.2	640		0	135		23.2			410		
	8-22-72	NFR	3.7	713		0	247		82.0			1,230		
	9-25-72	NFR												
	10-26-72	NFR												
Average		3.2	553		0	179					1,615			

Acidity - Analyzed by the cold method from March to September 1972; other dates by the hot method.
 NF - No Flow.
 NFR - No Flow Recorded.

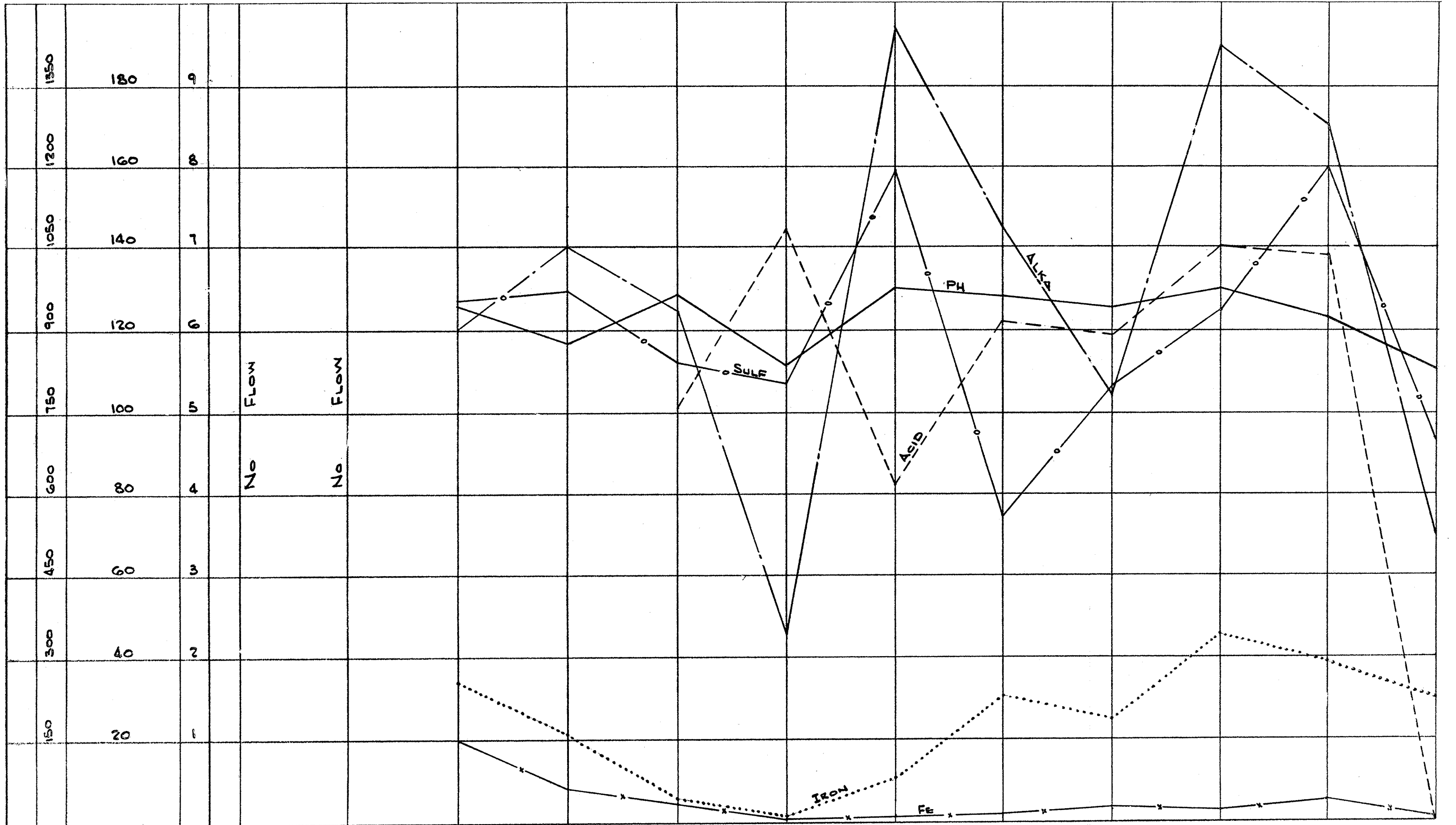


SULF - MGL
 FE - MGL
 IRON - MGL
 ALKA - MGL
 ACID - MGL
 PH
 FLOW - GPM

Nov. 1971 Dec. * JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. 1972

SAMPLING STATION NO 1
CROOKED CREEK

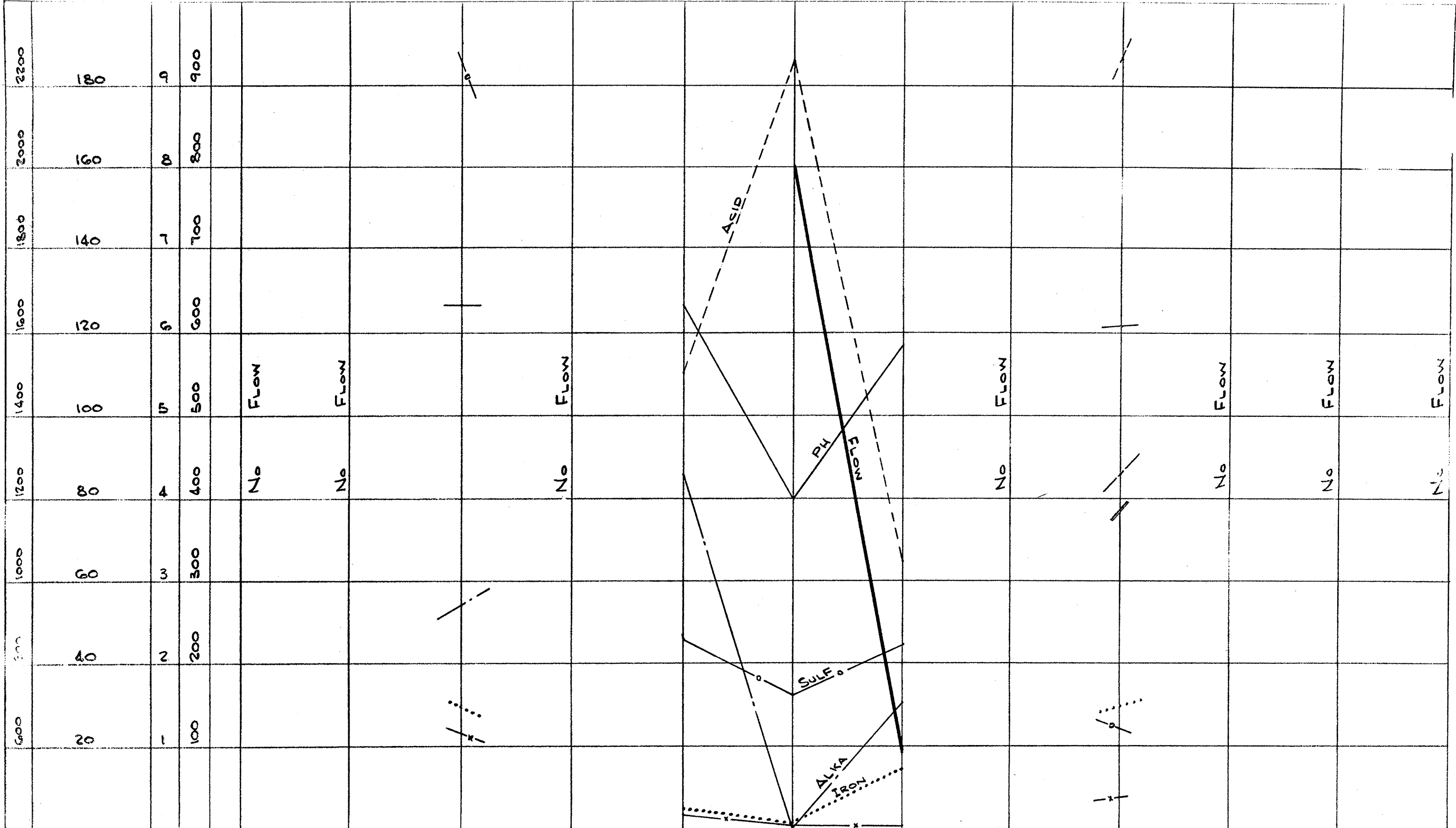
* CREEK FROZEN - NO FLOW RECORDED



SULF - MGL
 FE - MGL
 IRON - MGL
 ALKA - MGL
 ACID - MGL
 PH

Nov. 1971 Dec. JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. 1972

SAMPLING STATION No 3
 CG

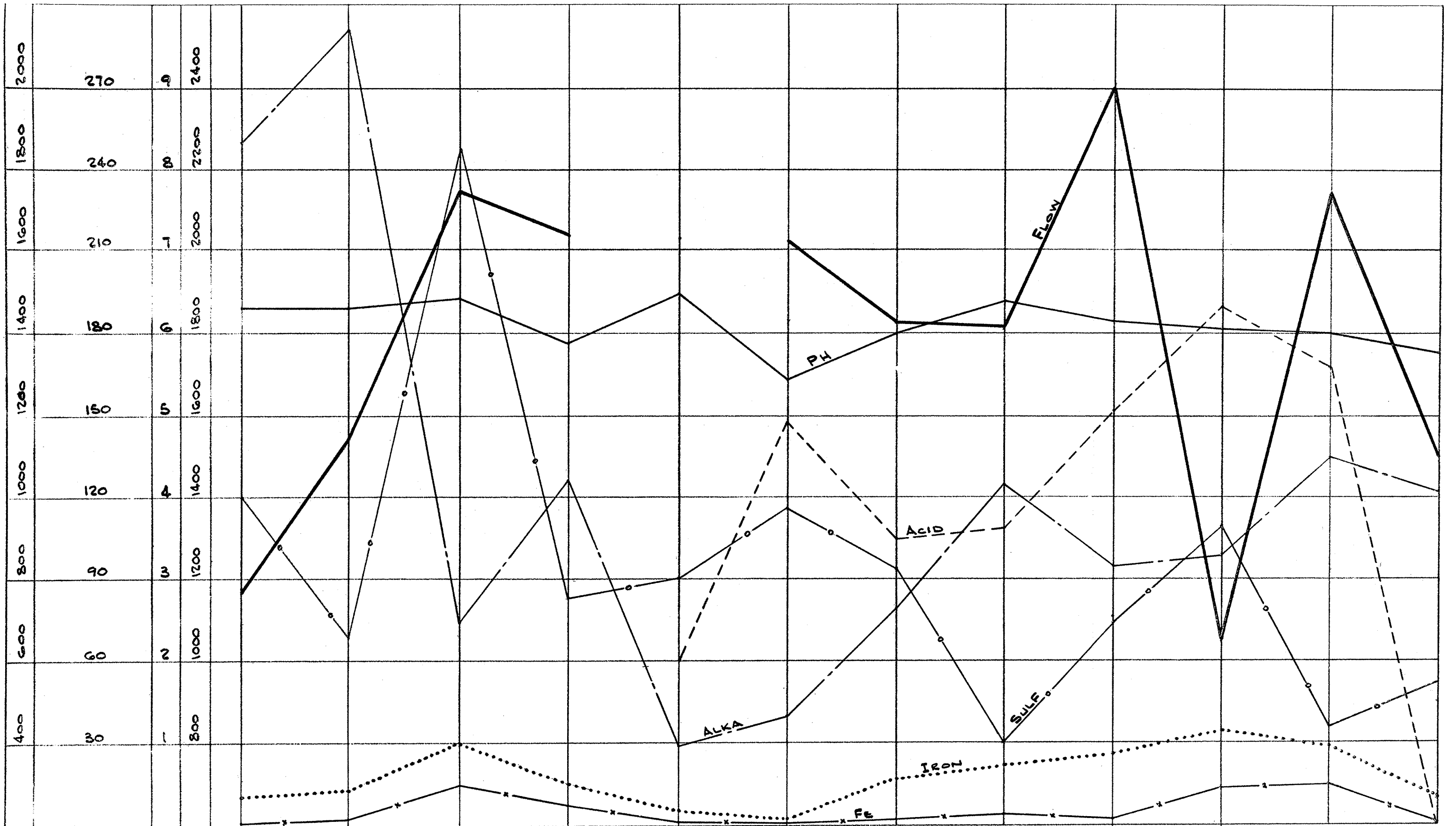


SULF-MGL ———
 FE-MGL - - - -
 IRON-MGL
 ALKA-MGL - - -
 ACID-MGL - - -
 PH - - - - -
 FLOW-GPM ———

NOV. 1971 DEC. 1971 * JAN. 1972 FEB. 1972 MAR. 1972 APR. 1972 MAY 1972 JUN. 1972 JUL. 1972 AUG. 1972 SEP. 1972 OCT. 1972

SAMPLING STATION NO 4
 MPI

* FLOW NOT RECORDED

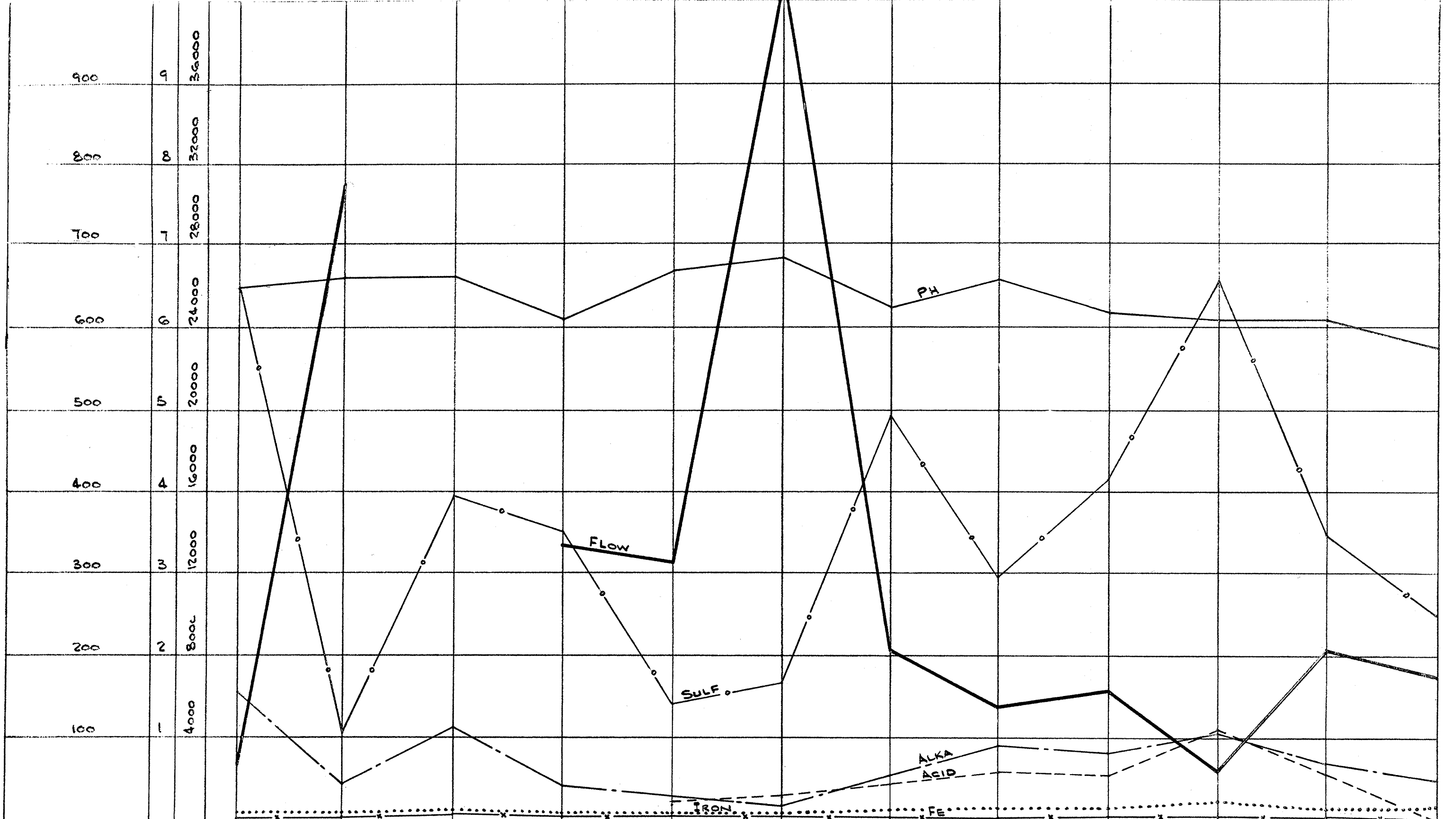


SULF - MGL
 FE - MGL
 IRON - MGL
 ALKA - MGL
 ACID - MGL
 PH
 FLOW - GPM

NOV. 1971 DEC. JAN. FEB. * MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. 1972

SAMPLING STATION No 5
TANOMA BORE HOLE "C7"

* WEIR OUT OF ORDER

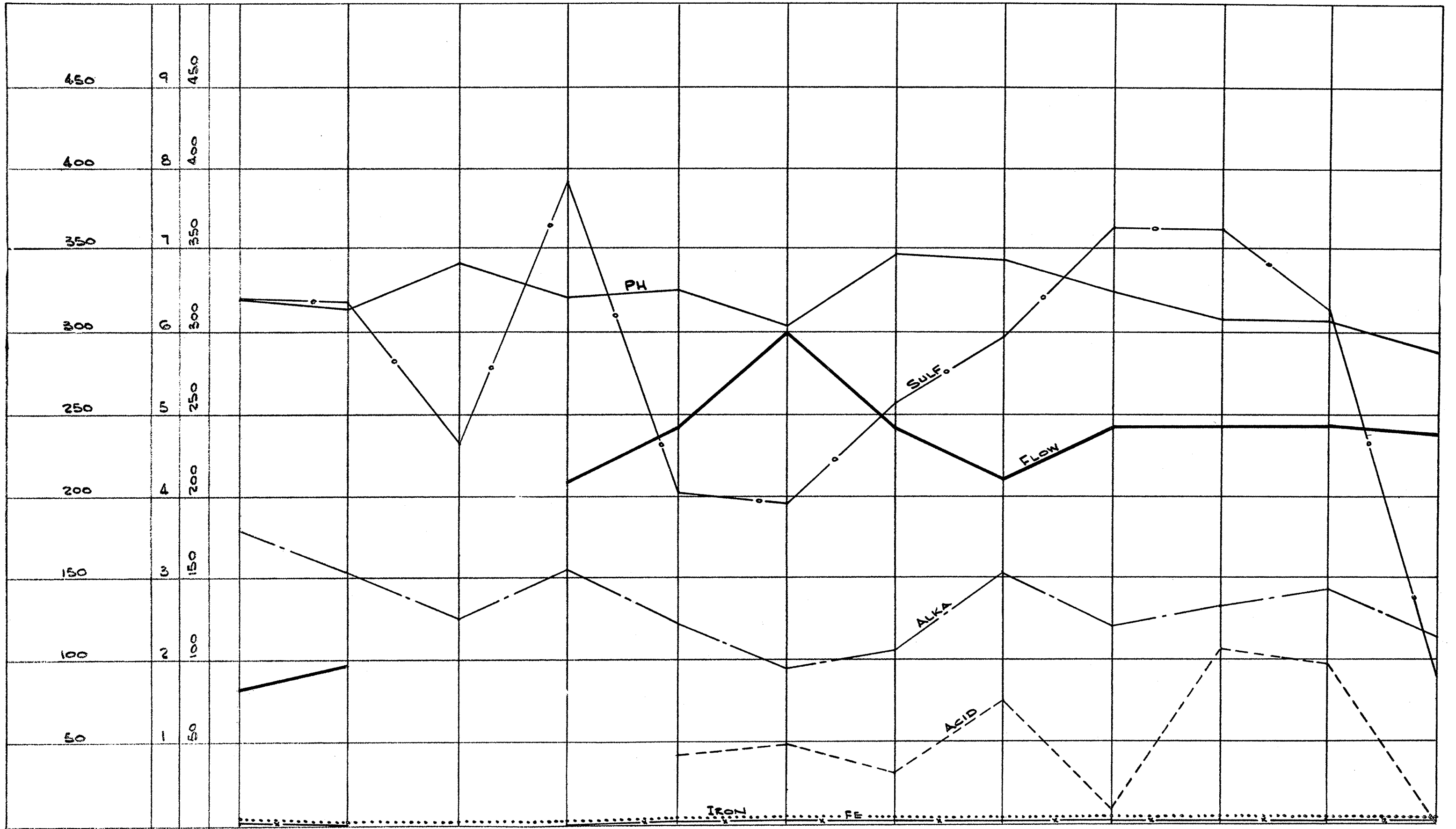


SULF. MGL ———
 FE. MGL ———
 IRON. MGL
 ALKA. MGL ———
 ACID. MGL
 PH ———
 FLOW. GPM ———

Nov. 1971 Dec. * JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. 1972

SAMPLING STATION No 6
 CROOKED CREEK

* FLOW NOT RECORDED

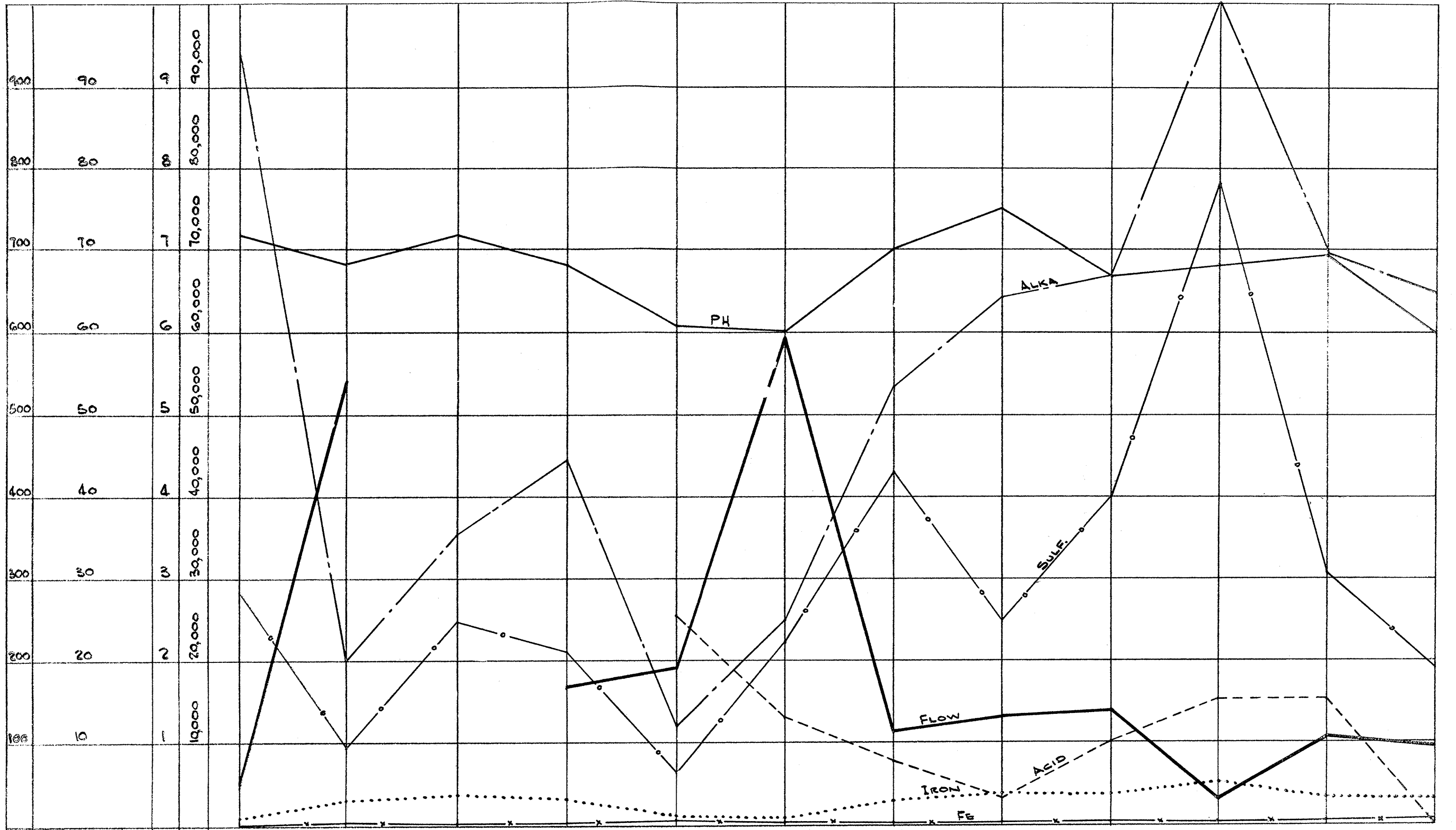


SULF-MGL —○—
 IRON-MGL —x—
 ALKA-MGL —·—
 ACID-MGL —- - -
 PH ———
 FLOW-GPM ———

Nov. 1971 Dec. * JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. 1972

SAMPLING STATION No 7
 BG

* Flow Not Recorded

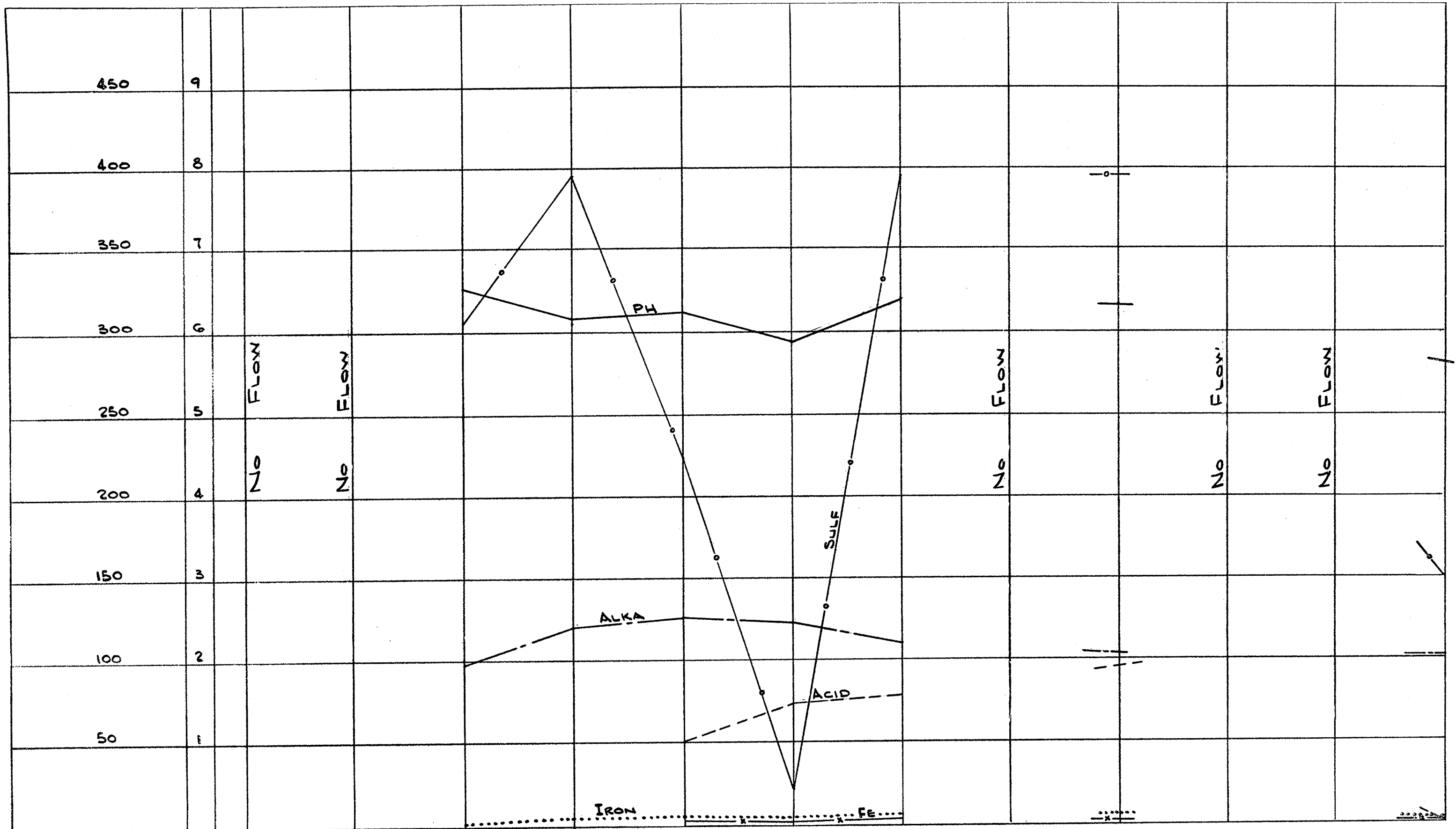


Sulf. - Mg/L
 Fe - Mg/L
 IRON - Mg/L
 ALKA - Mg/L
 ACID - Mg/L
 PH
 FLOW - GPM

Nov. 1971 Dec. * JAN. FEB. MAR. APR. MAY JUN. JUL AUG. SEP. OCT. 1972

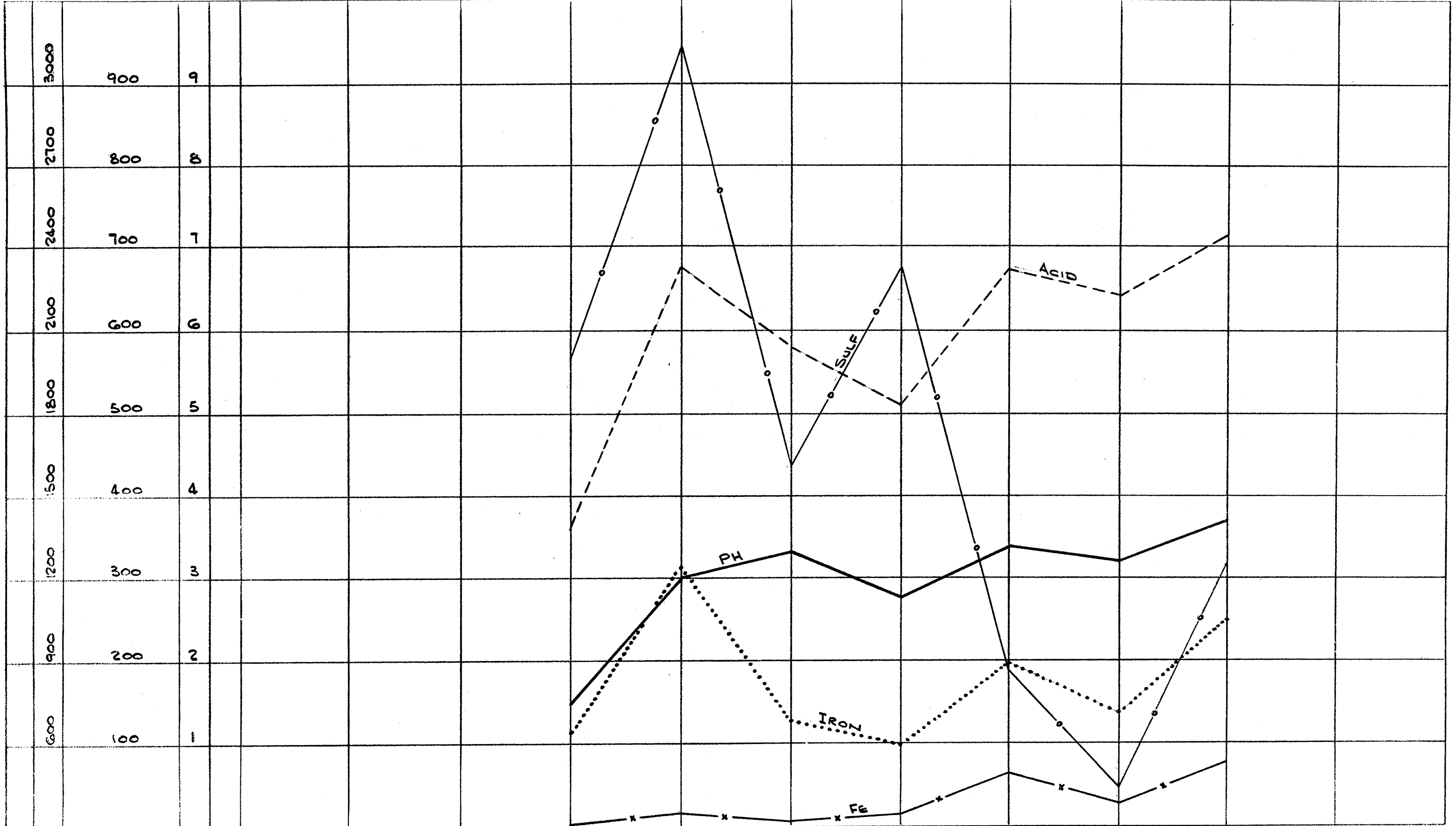
SAMPLING STATION No 8
 CROOKED CREEK

* FLOW NOT RECORDED



SULF - MGL
 FE - MGL
 IRON - MGL
 ALKA - MGL
 ACID - MGL
 PH

SAMPLING STATION NO 11
 B3

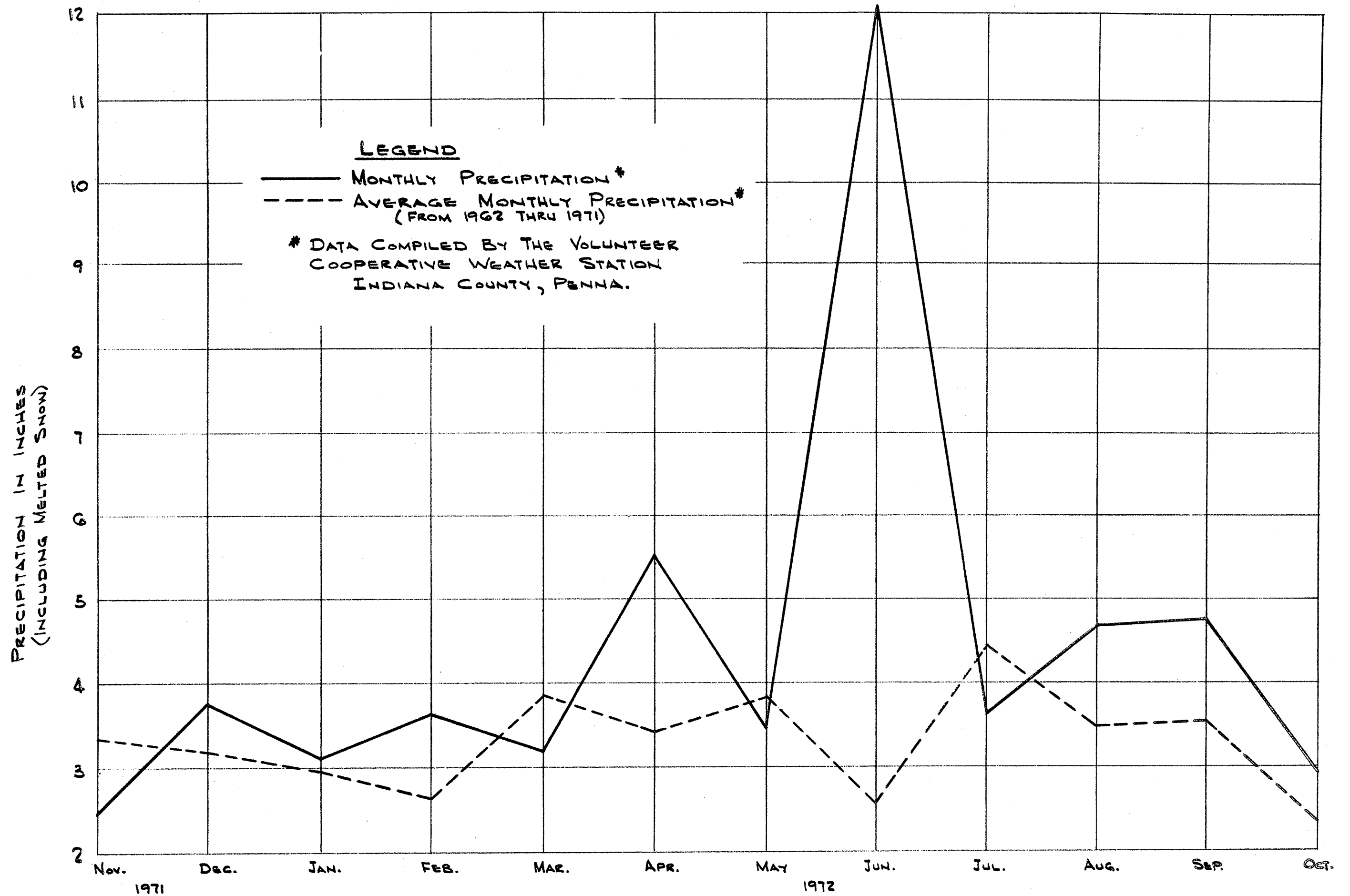


Sulf - MGL —○—
 Fe - MGL —x—
 Iron - MGL
 Alka - MGL —·—
 Acid - MGL —·—
 PH ———

Nov. 1971 Dec. Jan. FEB. MAR. APR. MAY JUN. JUL. AUG. * SEP. * OCT.

SAMPLING STATION No 16
 MPG

* SAMPLE NOT OBTAINED



MONTHLY PRECIPITATION DATA