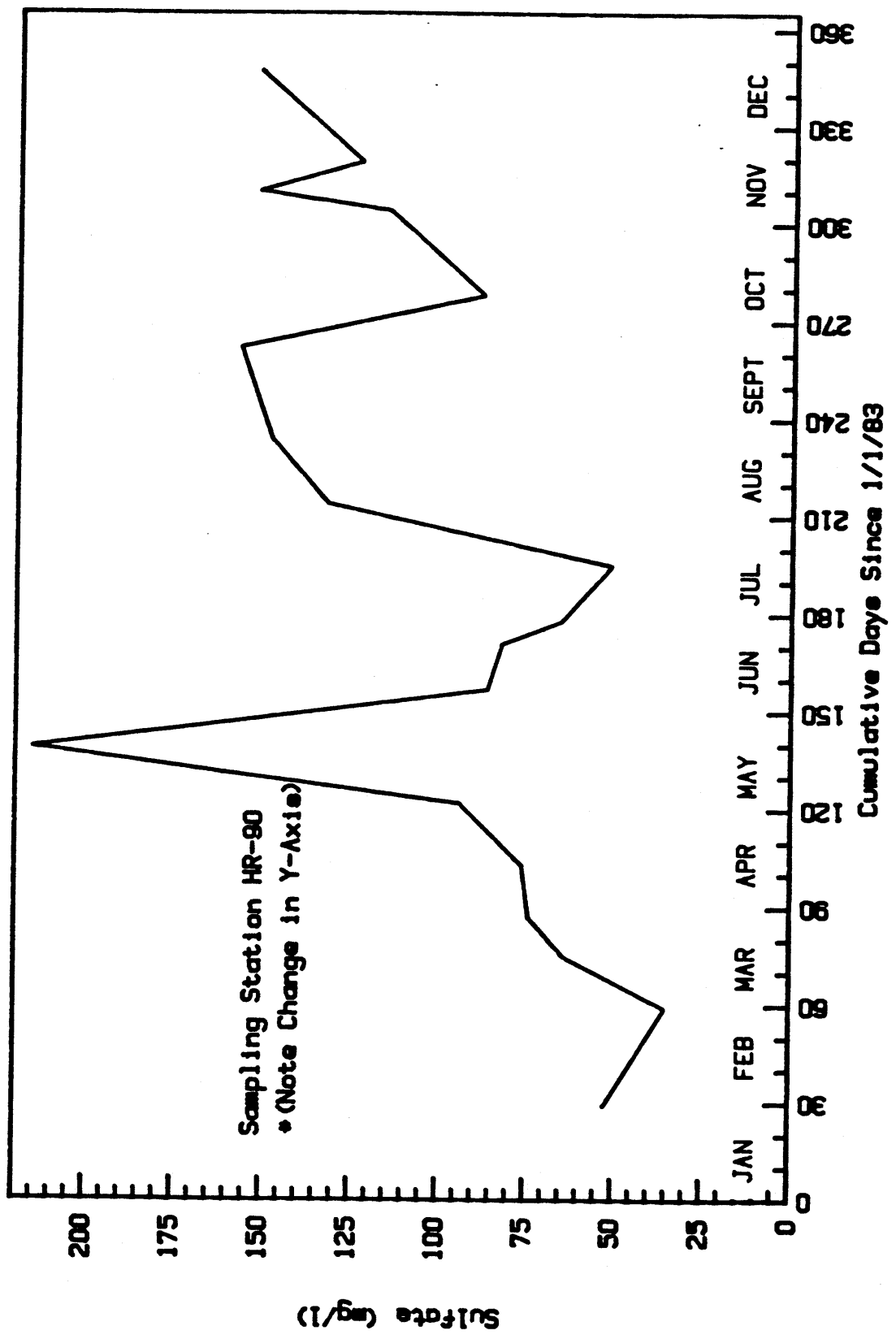
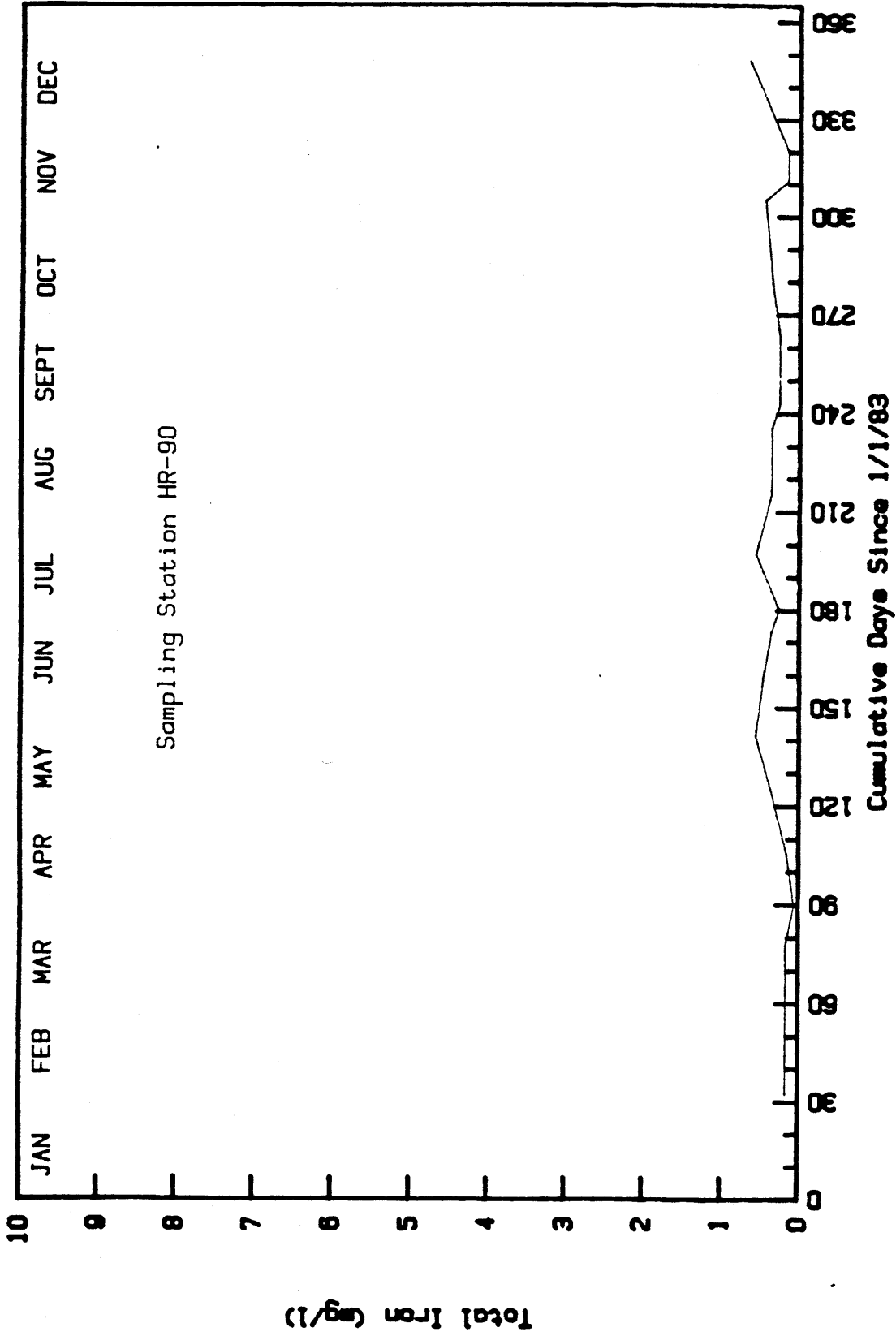


Mashudda Strip Mine Project



MASHUDDA STRIP MINE PROJECT



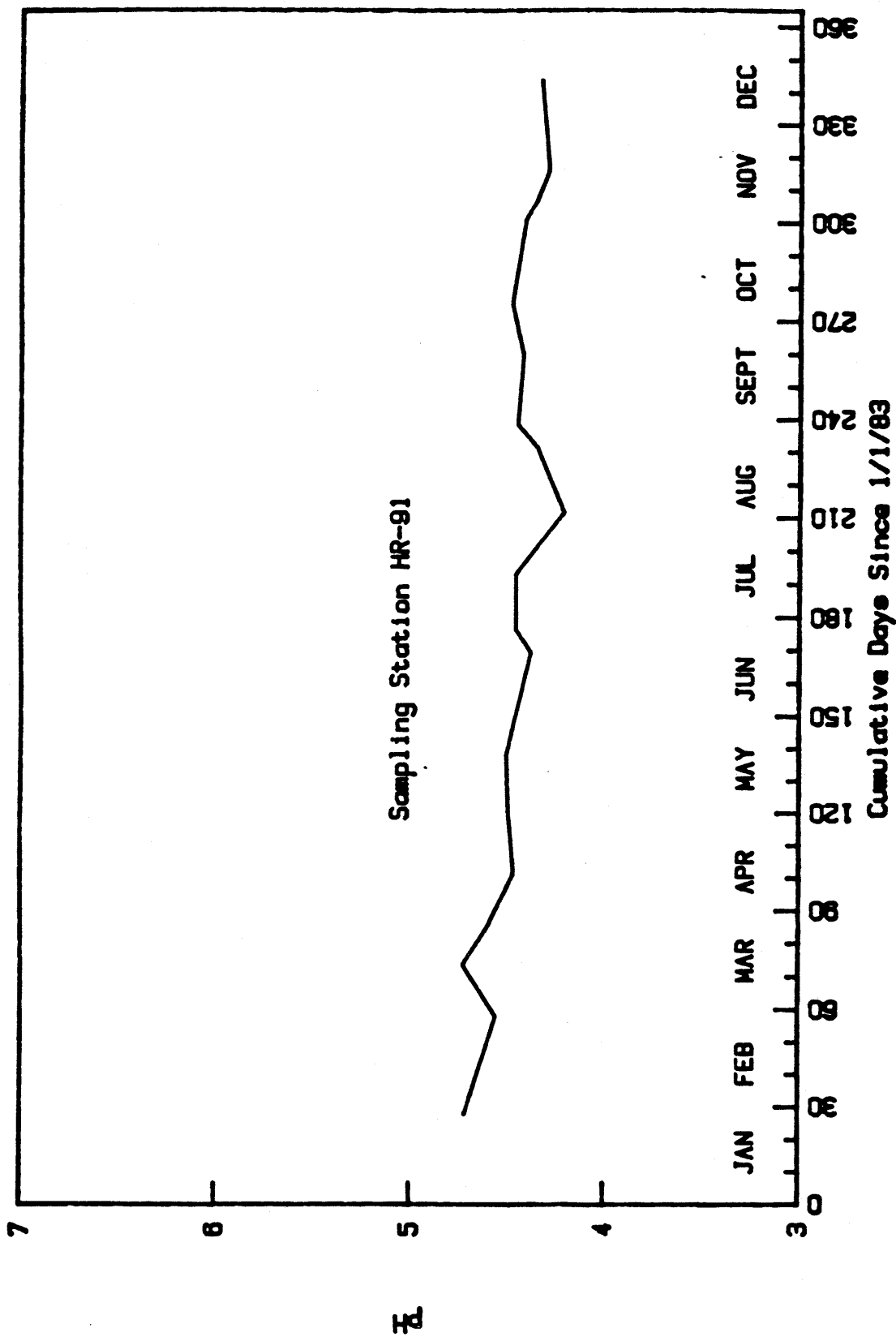
r. e. wright associates, inc.

HILLEN RUN
at Mouth

Sampling Station HR-91

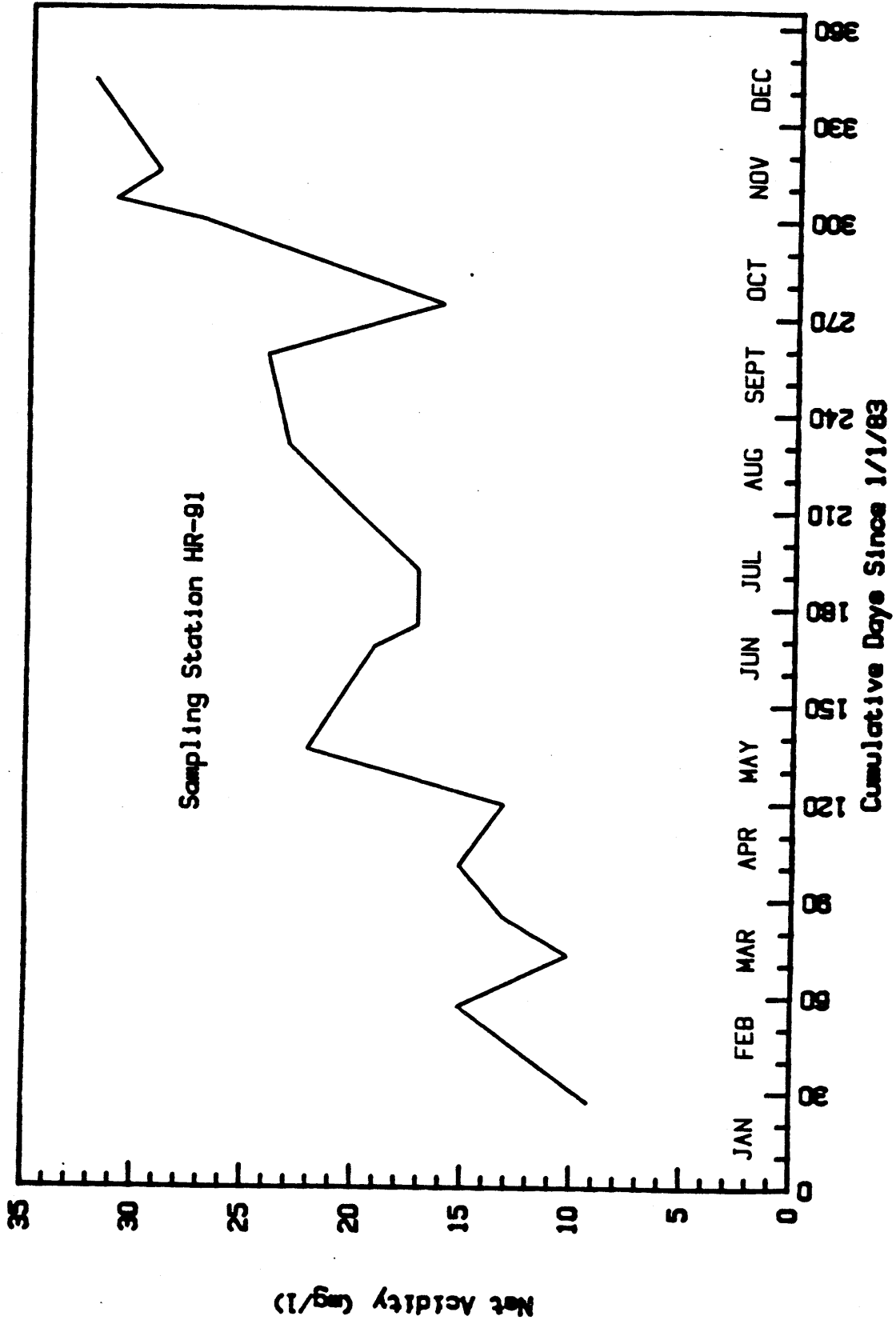
Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	4.68	14	4	28	0.4	0.4
7/22/82	4.23	27	0	103	0.2	0
10/5/82	4.41	18	0	103	0.1	0.1
10/23/82	4.54	10	1	25	0	0
11/20/82	4.46	14	0	36	0.4	0.1
1/29/83	4.70	10	1	28	0	0
2/28-3/1/83	4.54	16	1	22	0.1	0
3/16-18/83	4.71	11	1	39	0.1	0
3/28-29/83	4.58	14	1	34	0.1	0
4/13-14/83	4.45	15	0	33	0.2	0
5/2-3/83	4.48	13	0	42	0.3	0
5/19/83	4.49	22	0	36	0.1	0
6/20-21/83	4.36	19	0	41	0.2	0
6/27/83	4.44	17	0	50	0.3	0
7/14/83	4.44	17	0	50	0.9	0.6
8/2/83	4.19	20	0	68	0.2	0.1
8/22-23/83	4.33	23	0	60	0.4	0.1
8/29-30/83	4.43	X	0	32	0.2	0.1
9/19/83	4.40	24	0	107	0.3	0.2
10/5-6/83	4.46	16	0	40	0.2	0
10/31/83	4.39	27	0	96	0.2	0.1
11/6/83	4.33	31	0	60	0	0
11/15/83	4.27	29	0	74	0.1	0
12/13-14/83	4.31	32	0	60	0.4	0.1
1/11/84	4.34	30	0	52	0.1	0.1
1/19-20/84	4.38	28	0	65	0.1	0
2/8/84	4.38	26	0	45	0.1	0
2/16/84	4.40	24	0	36	0.1	0
3/6/84	4.36	27	0	37	0.2	0
4/3/84	4.40	19	0	29	0	0

Mashudda Strip Mine Project



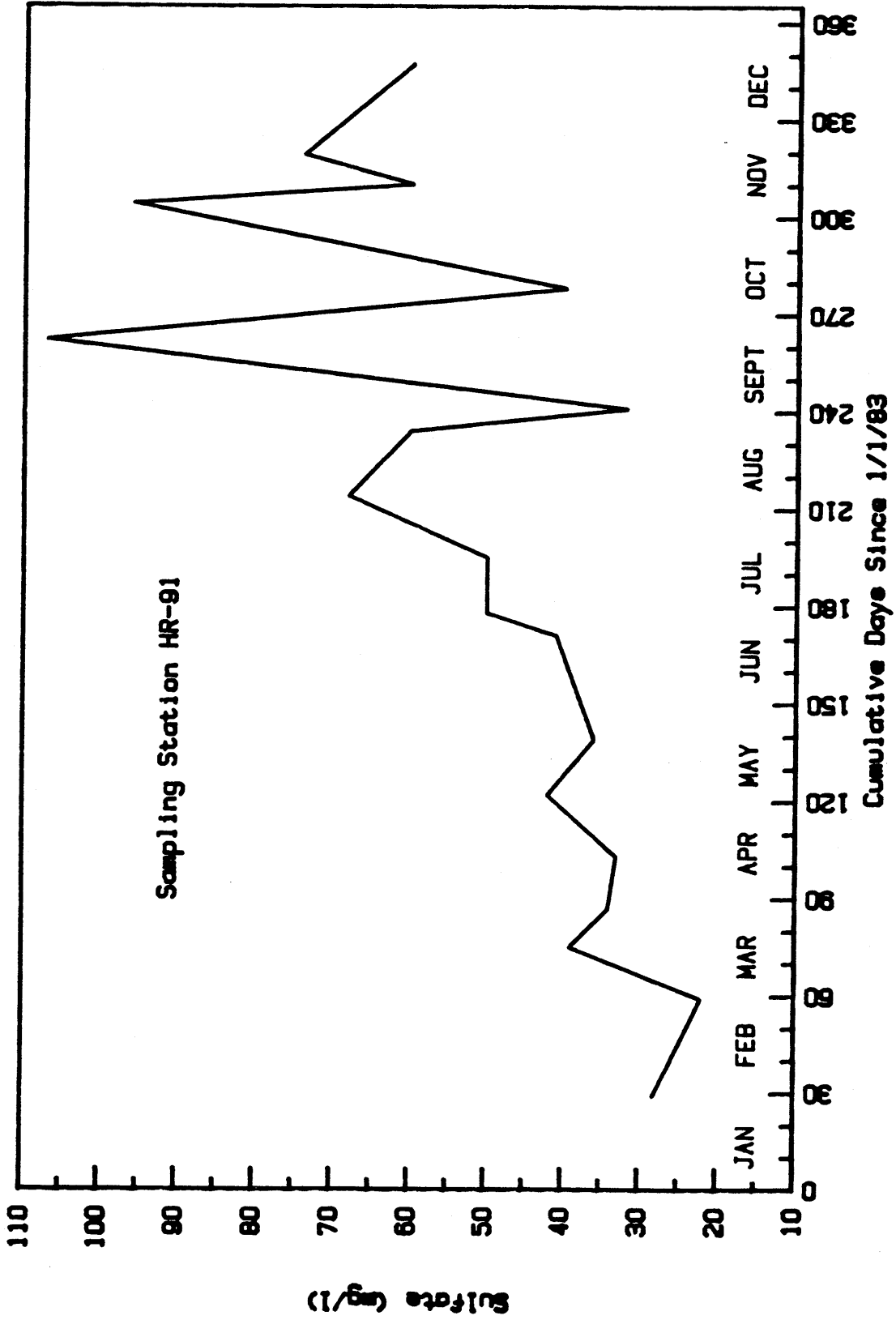
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Mashudda Strip Mine Project

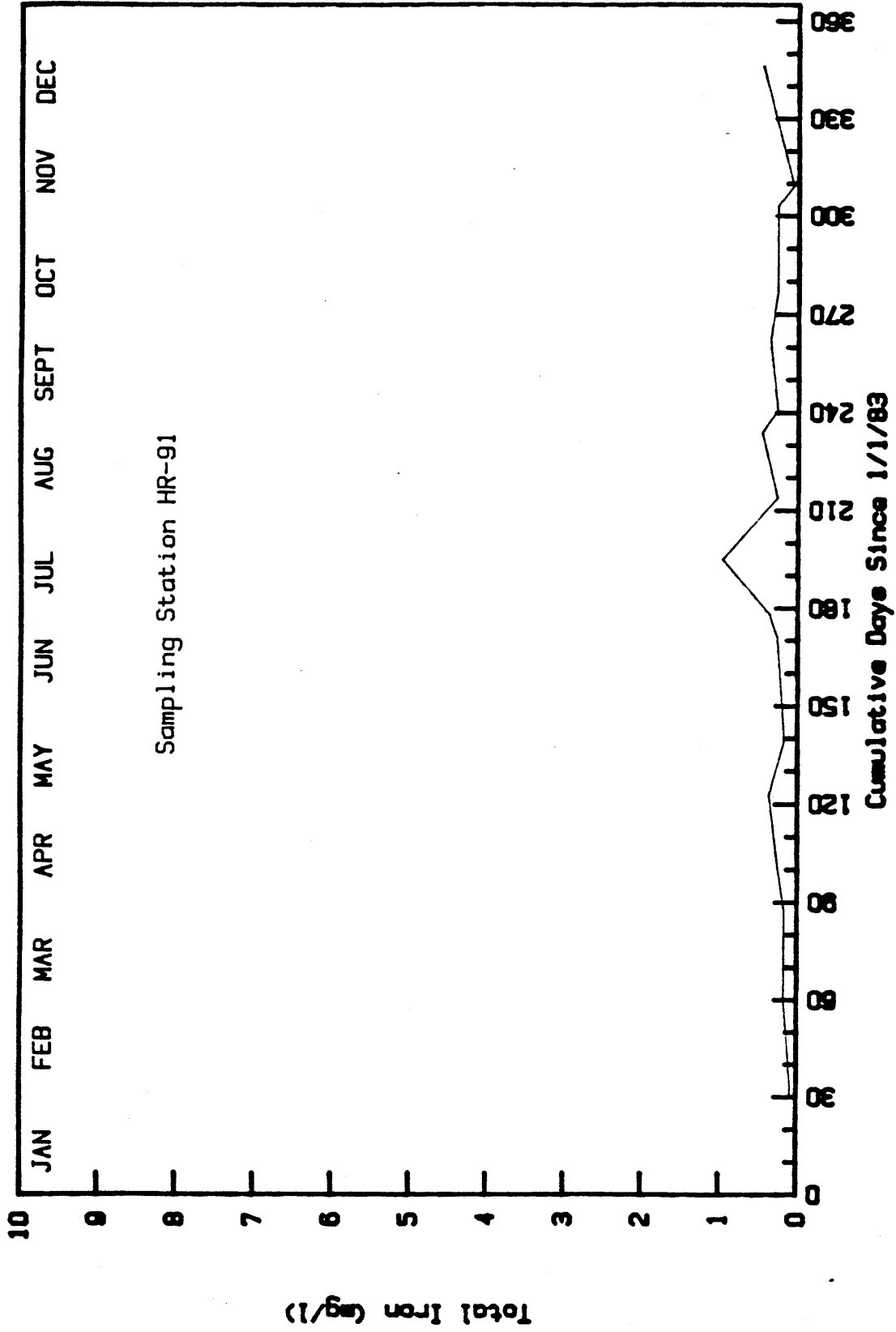


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Mashudda Strip Mine Project



MASHUDDA STRIP MINE PROJECT



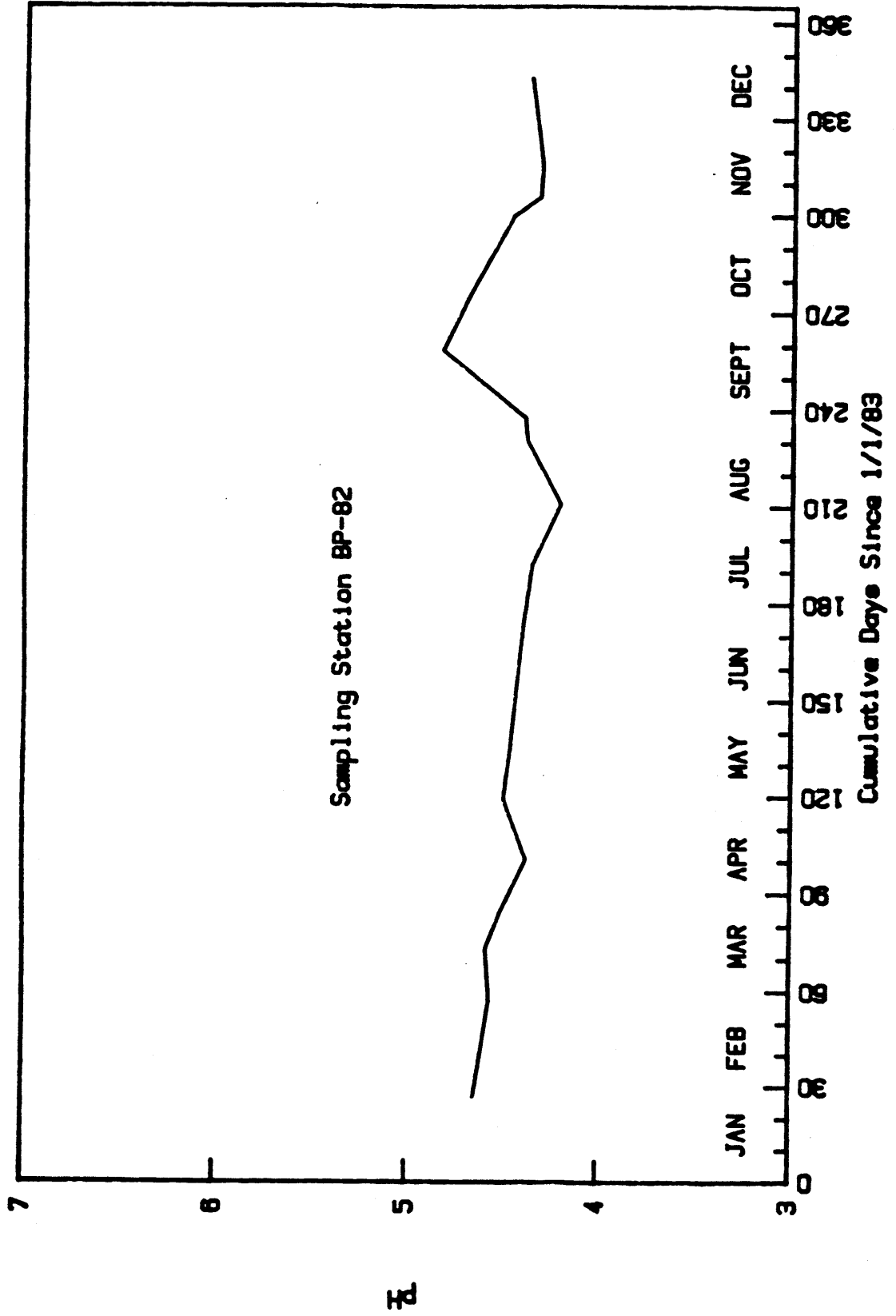
BIG PINEY
Above Weir Structure (limestone device)

Sampling Station BP-82

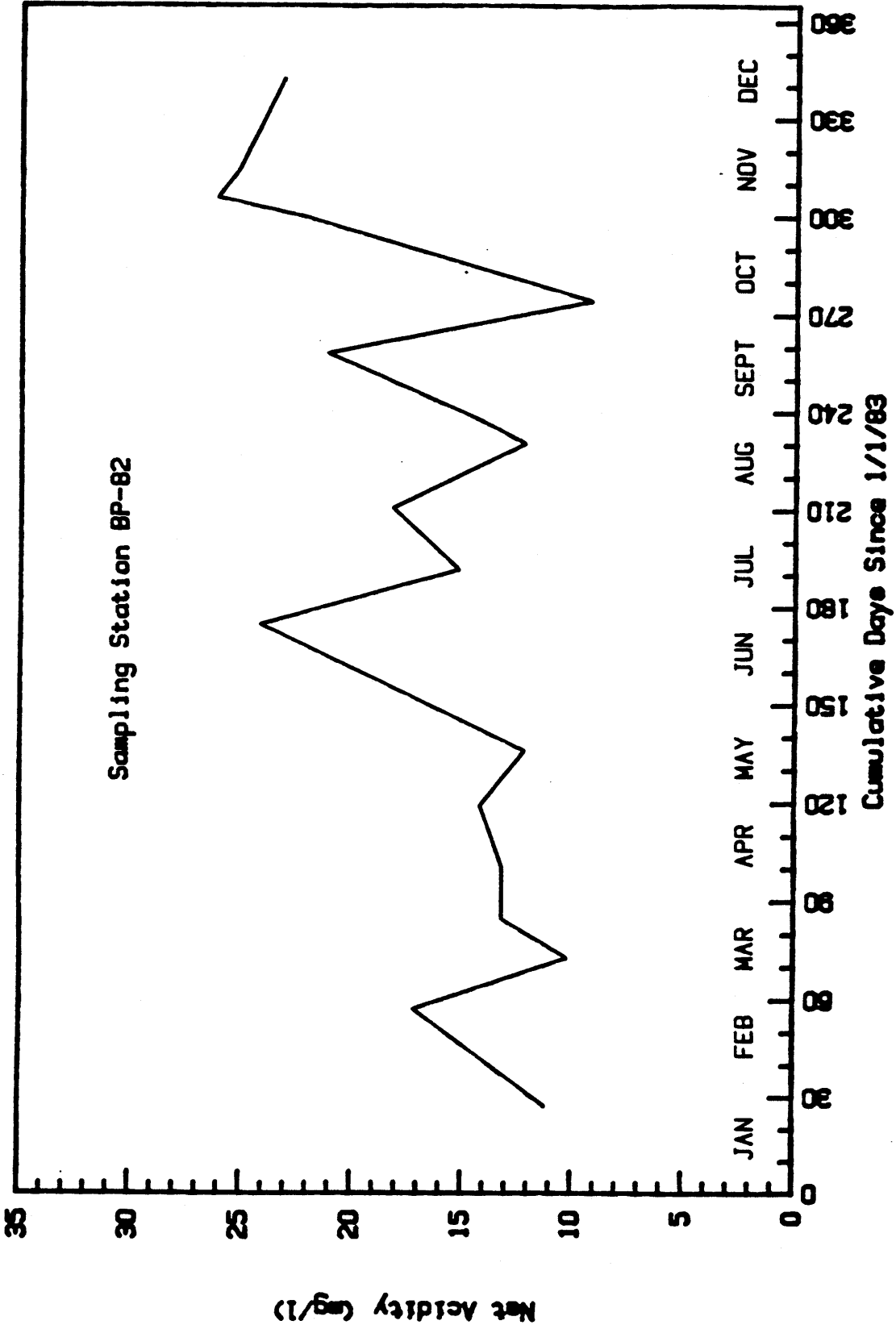
Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	4.57	14	3	49	0.6	0.3
7/22/82	4.31	21	0	74	0.8	0.3
10/5/82	4.45	20	0	71	0.5	0.1
10/23/82	4.41	9	0	37	0.2	0.2
11/20/82	4.46	12	0	28	0.6	0.2
1/29/83	4.64	12	1	32	0.2	0.1
2/28-3/1/83	4.56	18	1	42	0.3	0.1
3/16-18/83	4.58	11	1	30	0.2	0.1
3/28-29/83	4.50	13	0	36	0.3	0.1
4/13-14/83	4.37	13	0	31	0.2	0.1
5/2-3/83	4.49	14	0	48	0.3	0
5/19/83	4.45	12	0	28	0.3	0.1
6/27/83	4.38	24	0	38	0.4	0.1
7/14/83	4.34	15	0	38	1.7	0.8
8/2/83	4.19	18	0	53	0.9	0.4
8/22-23/83	4.37	12	0	38	1.3	0.5
8/29-30/83	4.38	14	0	36	2.9	1.1
9/19/83	4.81	22	1	50	6.1	0.8
10/5-6/83	4.68	10	1	36	3.4	0.4
10/31/83	4.44	22	0	58	0.4	0.2
11/6/83	4.30	26	0	44	0.2	0.1
11/15/83	4.29	25	0	53	0.3	0
12/13-14/83	4.35	23	0	40	0.3	0.2
1/11/84	4.40	25	0	62	0.2	0
1/19-20/84	4.29	25	0	31	2.3*	0.4
2/8/84	4.39	21	0	40	0.2	0
2/16/84	4.40	20	0	31	0.3	0
3/6/84	4.45	24	0	41	0.2	0
4/3/84	4.46	15	0	42	0.1	0

*Sediment caused high iron value.

Mashudda Strip Mine Project

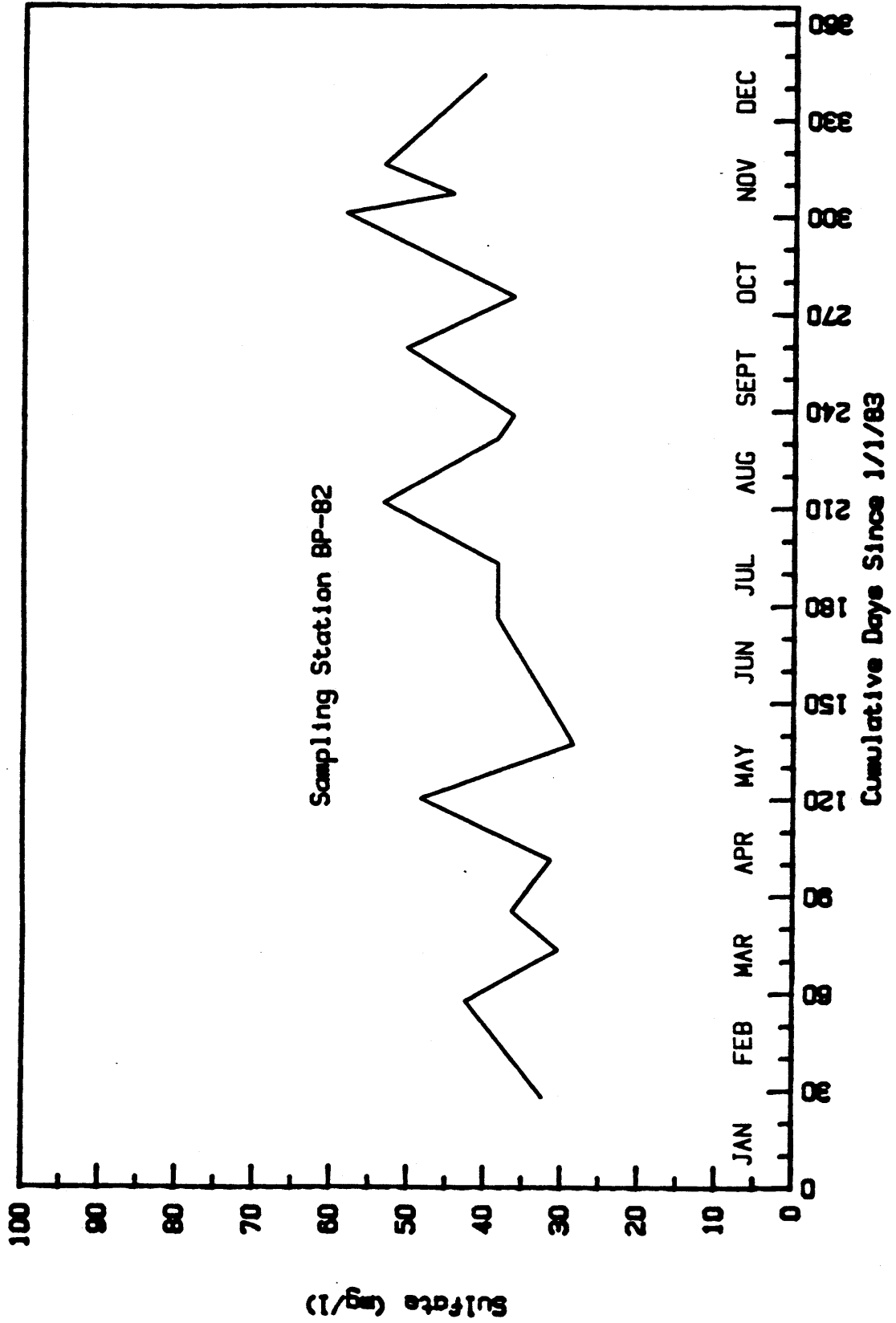


Mashudda Strip Mine Project

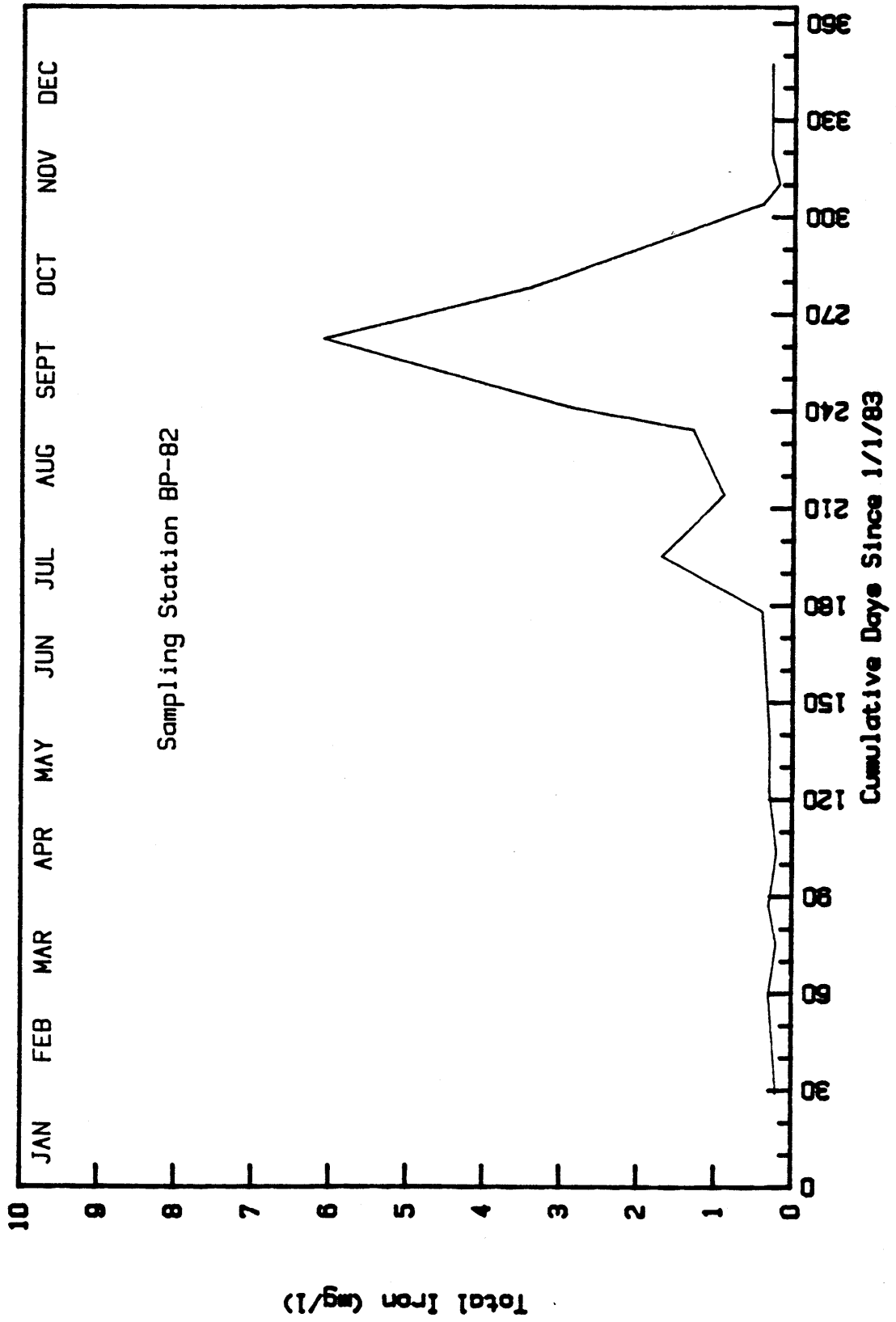


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Mashudda Strip Mine Project



MASHUDDA STRIP MINE PROJECT

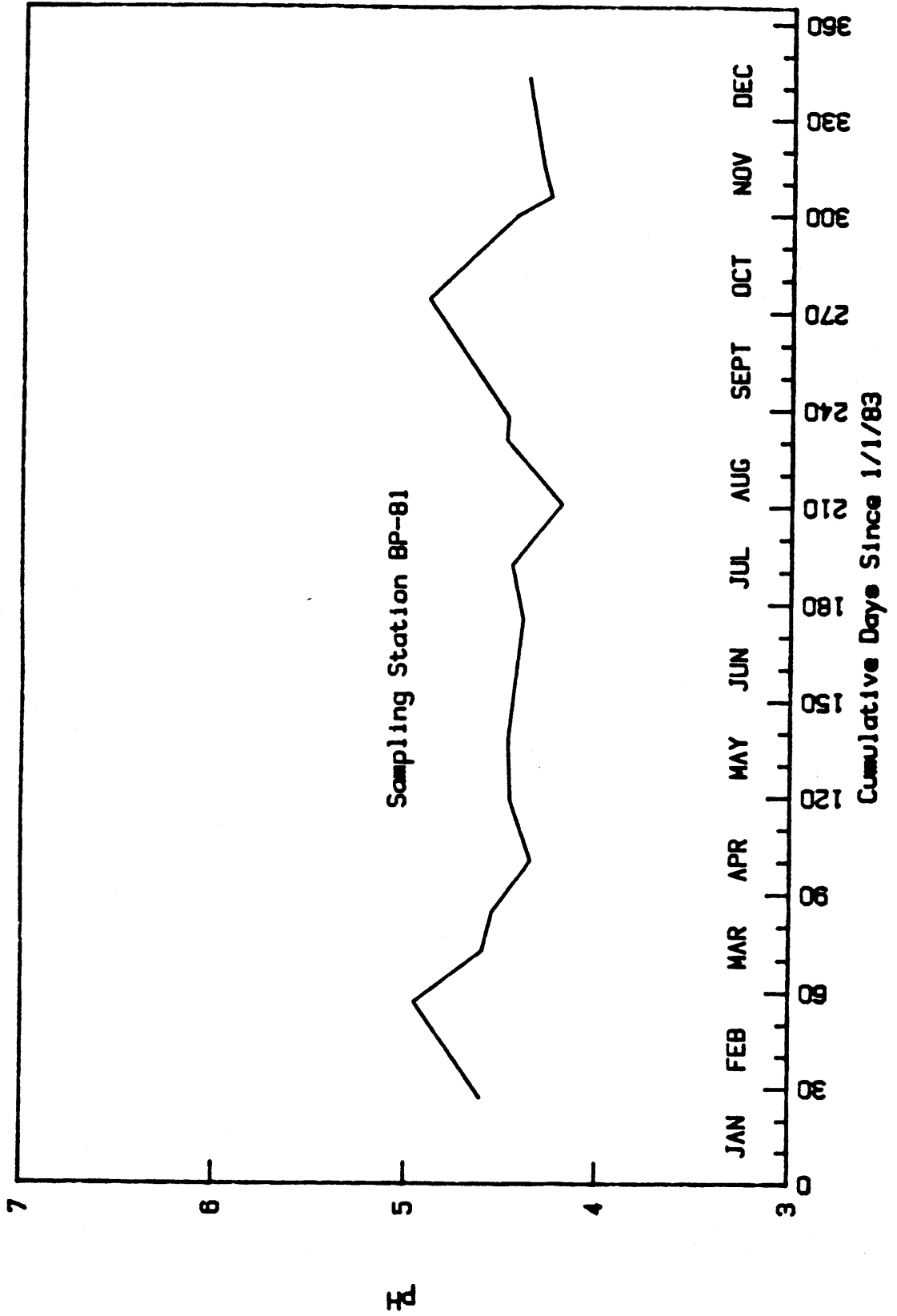


BIG PINEY
Below Weir Structure (limestone device)

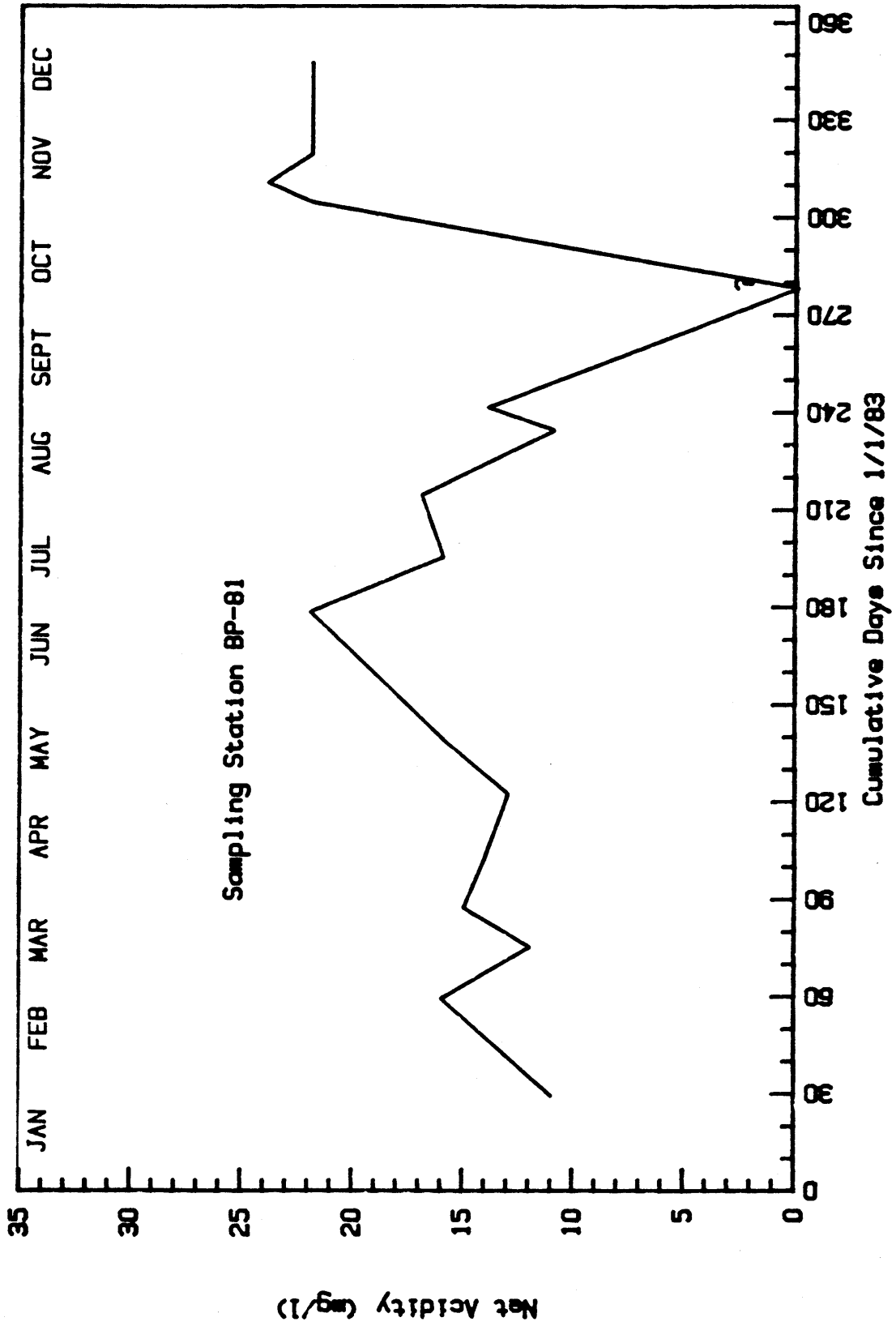
Sampling Station BP-81

Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	4.57	16	3	49	0.5	0.3
7/22/82	4.29	28	0	70	0.8	0.3
10/5/82	4.51	21	0	68	0.5	0.2
10/23/82	4.42	9	0	38	0.2	0.2
11/20/82	4.47	13	0	33	0.2	0
1/29/83	4.60	12	1	24	0.2	0.1
2/28-3/1/83	4.95	18	2	32	0.2	0
3/16-18/83	4.59	13	1	34	0.2	0.1
3/28-29/83	4.54	16	1	36	0.1	0
4/13-14/83	4.34	14	0	33	0.2	0.1
5/2-3/83	4.45	13	0	31	0.3	0.1
5/19/83	4.46	16	0	33	0.3	0.1
6/27/83	4.38	22	0	34	0.4	0.1
7/14/83	4.44	16	0	44	0.8	0.3
8/2/83	4.18	17	0	45	0.7	0.4
8/22-23/83	4.47	11	0	34	1.1	0.4
8/29-30/83	4.46	14	0	76	8.6	4.1
10/5-6/83	4.88	12	12	36	3.3	0.4
10/31/83	4.42	22	0	73	0.4	0.3
11/6/83	4.24	24	0	36	0.2	0
11/15/83	4.28	22	0	58	0.3	0
12/13-14/83	4.36	22	0	47	0.3	0
1/11/84	4.39	27	0	62	0.1	0
1/19-20/84	INACCESSIBLE					
2/8/84	4.33	23	0	37	0.2	0
2/16/84	4.43	21	0	32	0.6	0.1
3/6/84	4.41	22	0	42	0.2	0
4/3/84	4.42	17	0	32	0.1	0

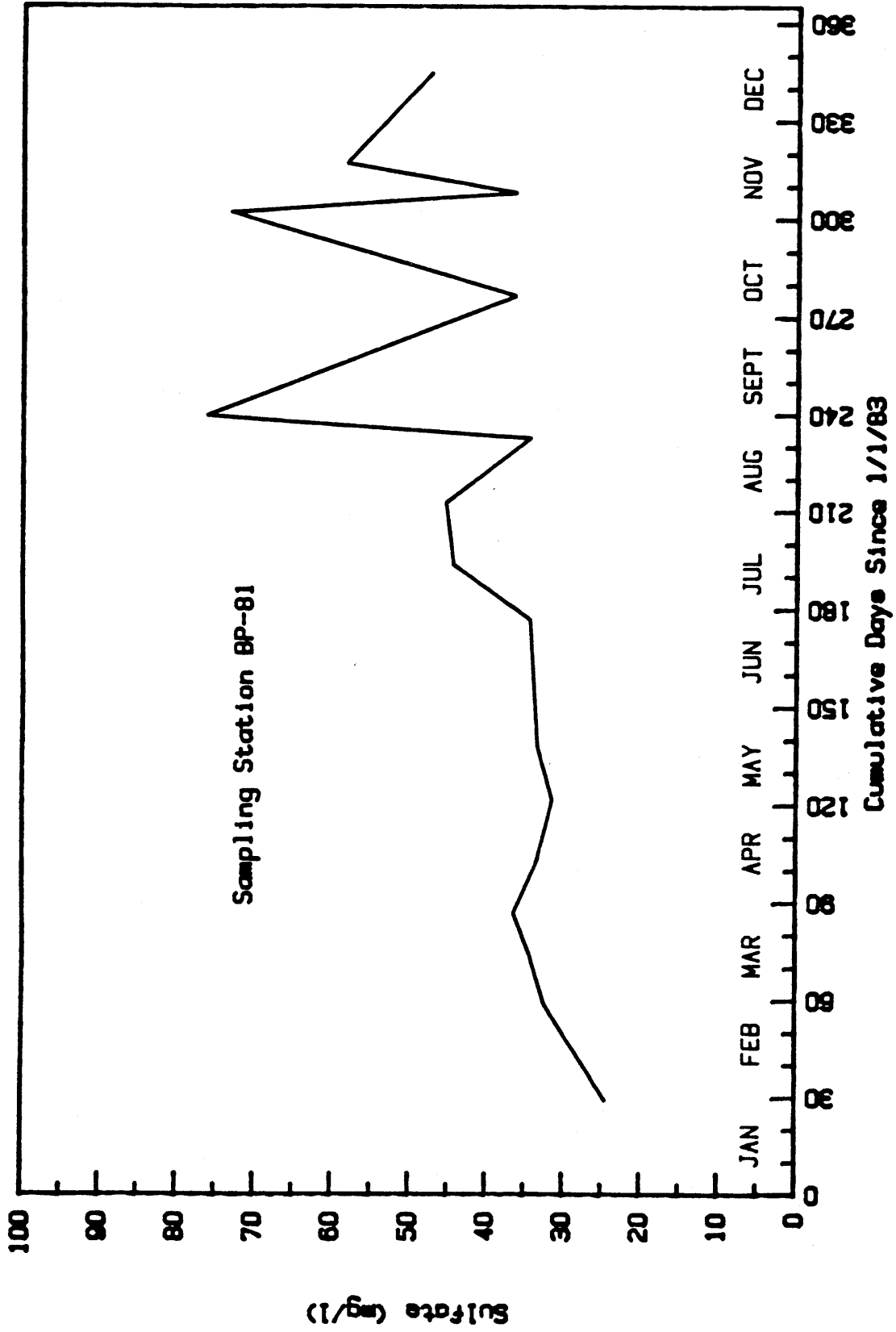
Mashudda Strip Mine Project



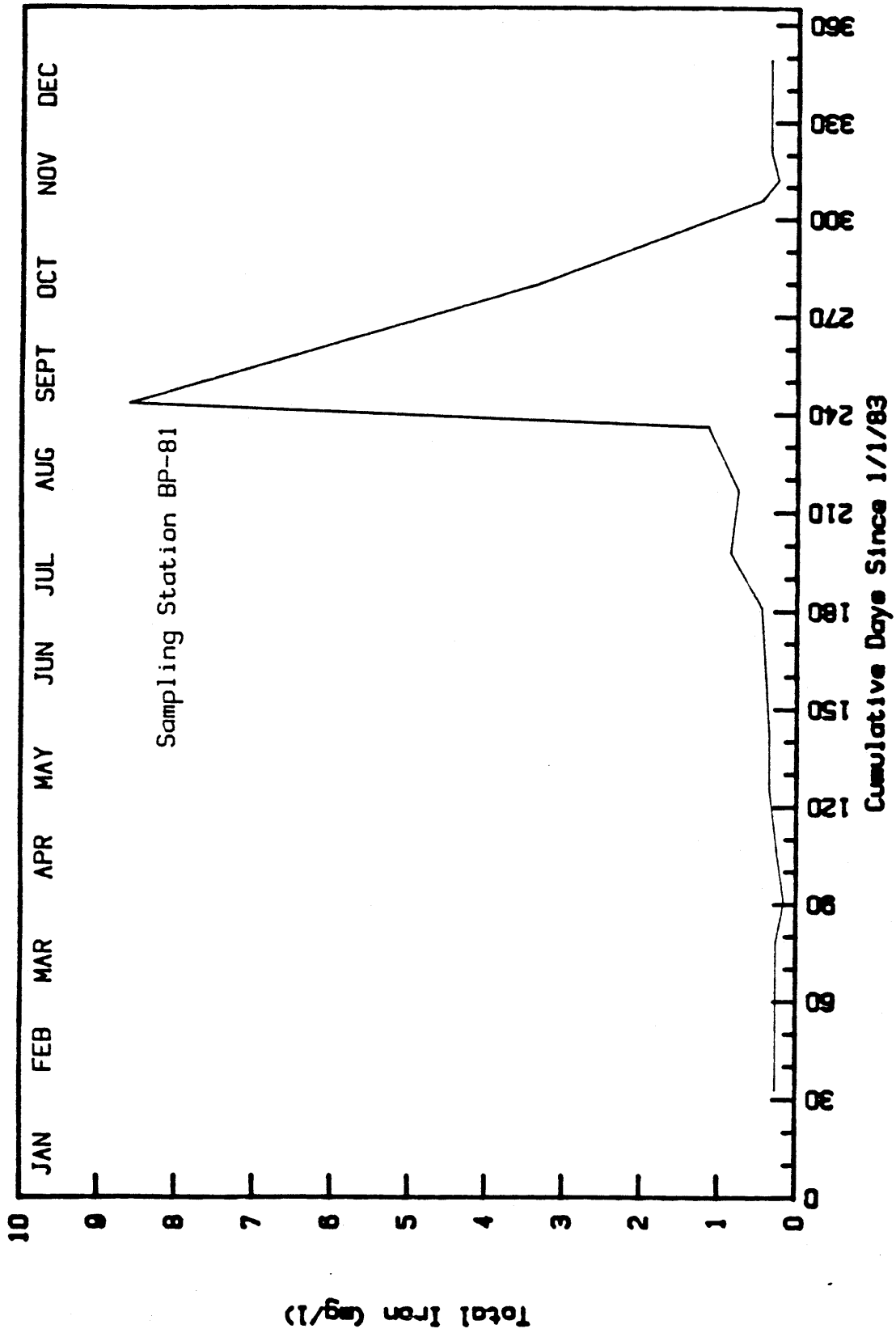
Mashudda Strip Mine Project



Mashudda Strip Mine Project



MASHUDDA STRIP MINE PROJECT

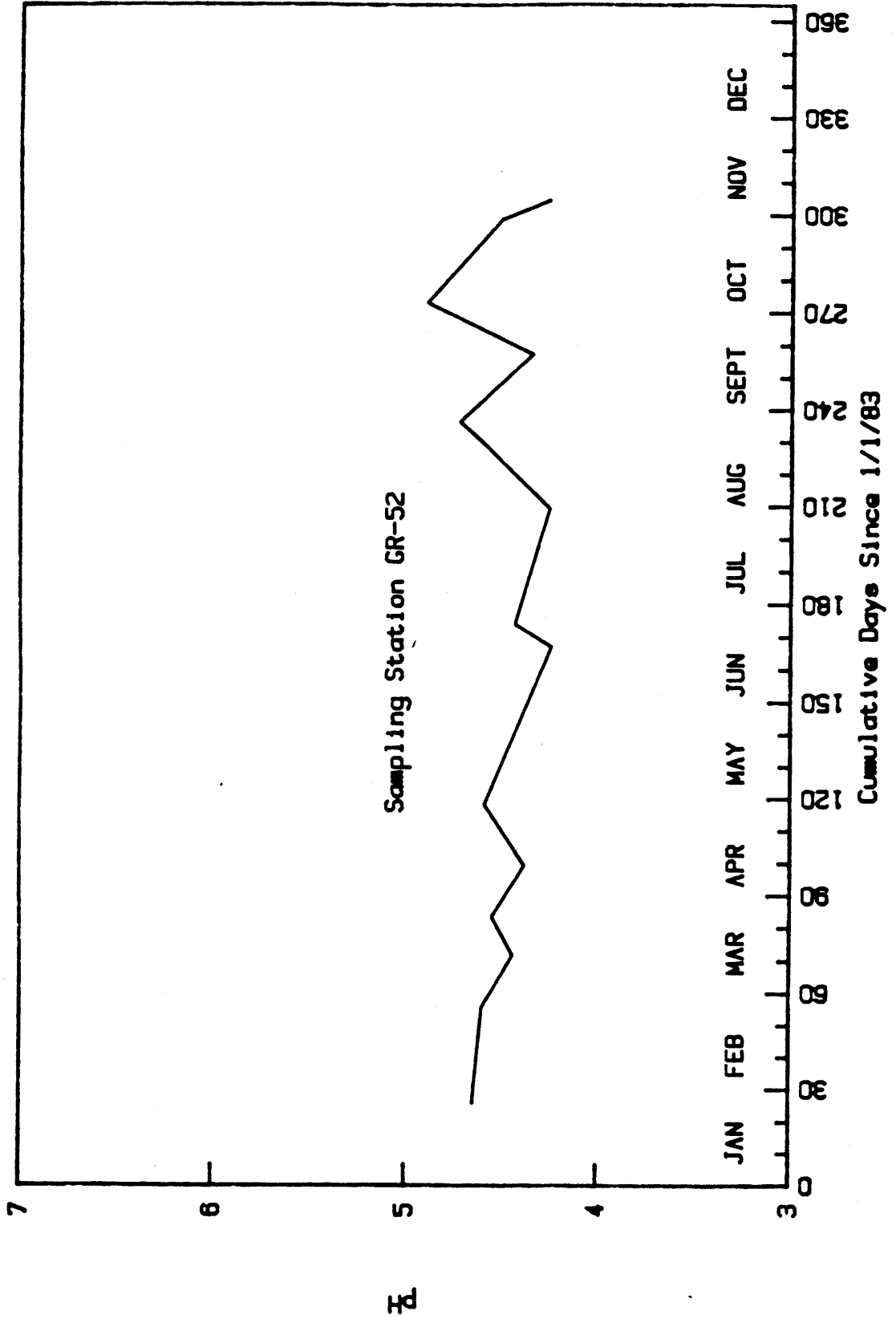


GLADE RUN
at mouth

Sampling Station GR-52

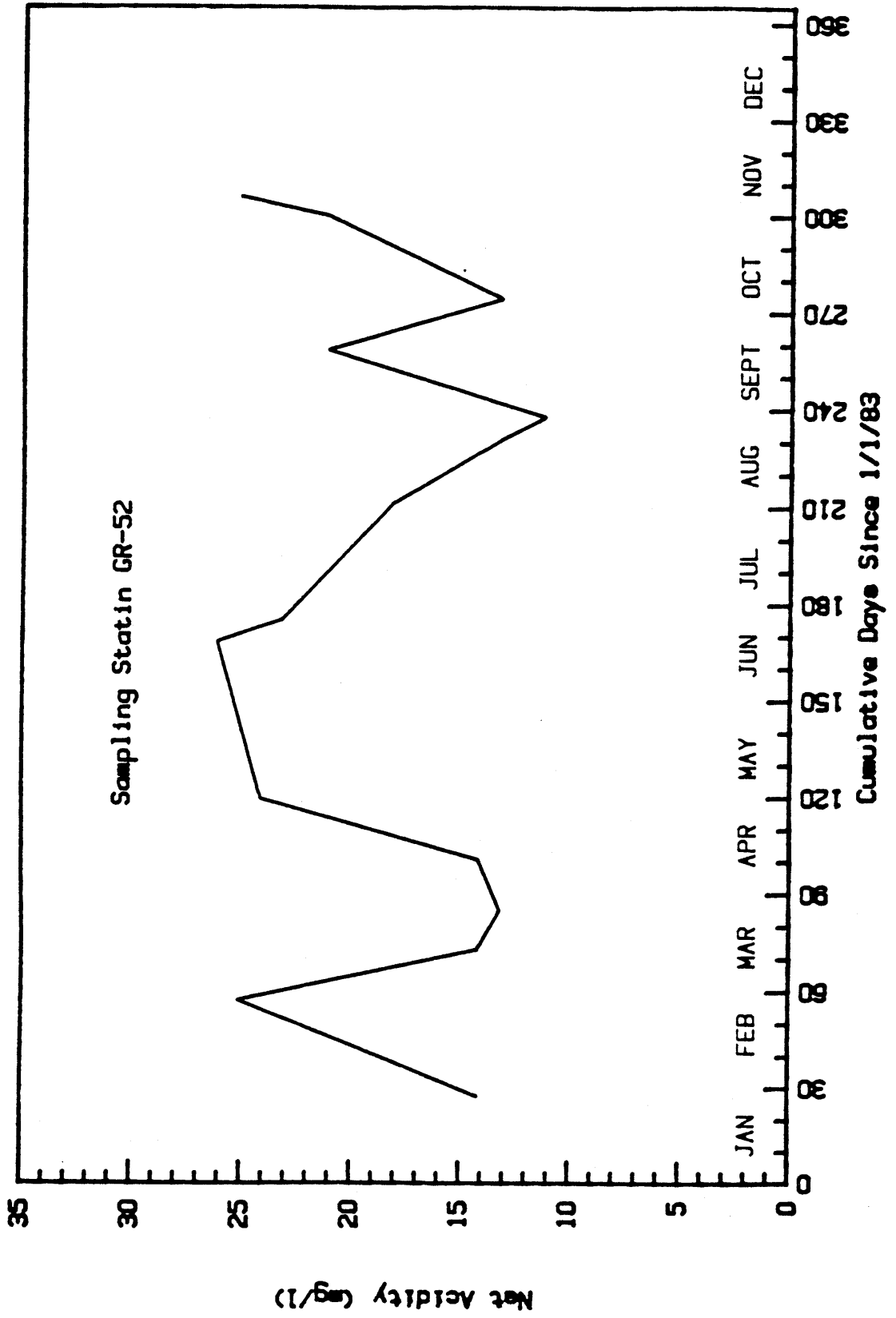
Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	4.66	15	4	53	0.9	0.4
7/22/82	4.40	20	0	70	0.9	0.4
10/5/82	4.51	13	0	59	0.5	0.2
10/23/82	4.46	9	0	41	0.1	0
11/20/82	4.42	12	0	42	0.1	0
1/29/83	4.63	15	1	26	0.1	0.1
2/28-3/1/83	4.58	26	1	41	0.2	0
3/16-18/83	4.42	14	0	37	0.6	0.1
3/28-29/83	4.53	14	1	29	0.1	0
4/13-14/83	4.36	14	0	34	0.3	0.1
5/2-3/83	4.57	25	1	80	0.3	0.1
6/20-21/83	4.22	26	0	45	0.4	0.1
6/27/83	4.41	23	0	35	0.3	0
8/2/83	4.23	18	0	41	0.4	0.1
8/22-23/83	4.57	14	1	43	0.5	0.2
8/29-30/83	4.70	12	1	41	1.0	0.6
9/19/83	4.32	21	0	77	4.0	0.8
10/5-6/83	4.87	14	1	25	2.8	0.3
10/31/83	4.48	21	0	70	0.4	0.2
11/6/83	4.23	25	0	47	0.1	0
1/11/84	4.41	36	0	27	0.1	0
1/19-20/84	INACCESSIBLE					
2/8/84	4.34	26	0	36	0.8	0.1
2/16/84	NO DATA					
3/6/84	4.43	26	0	40	0.2	0.1
4/3/84	4.34	13	0	29	0.3	0.1

Mashudda Strip Mine Project

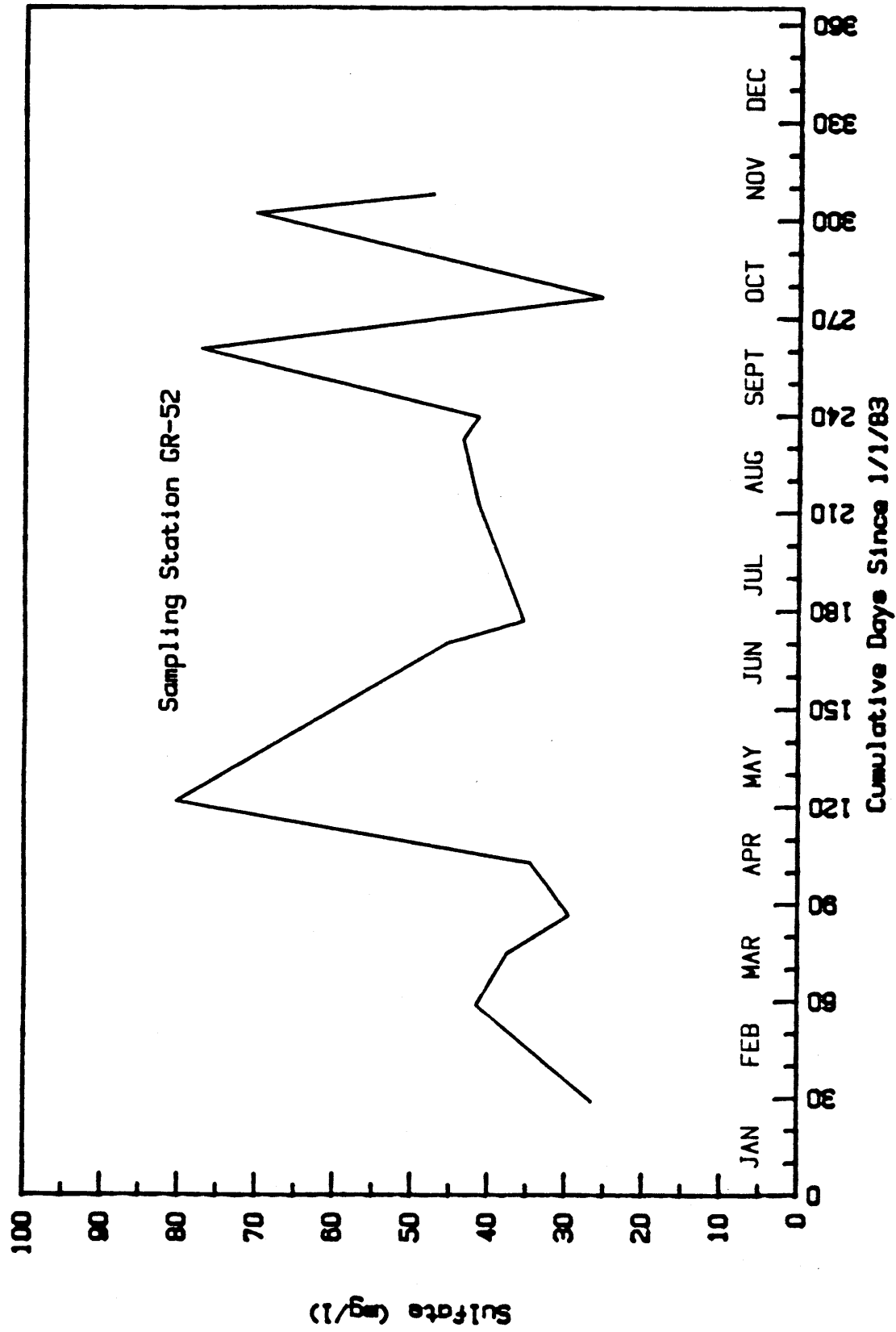


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Mashudda Strip Mine Project

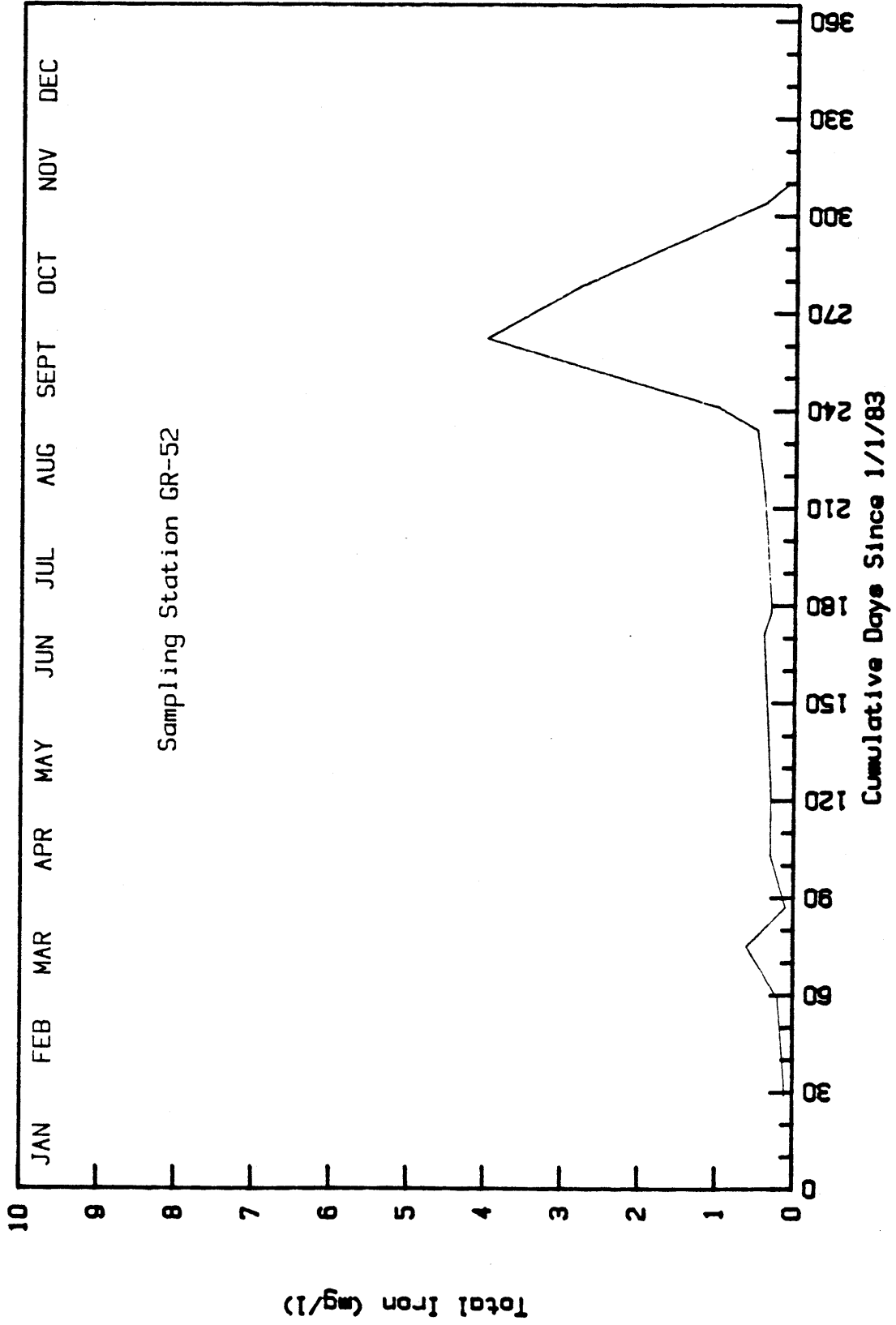


Mashudda Strip Mine Project



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MASHUDDA STRIP MINE PROJECT

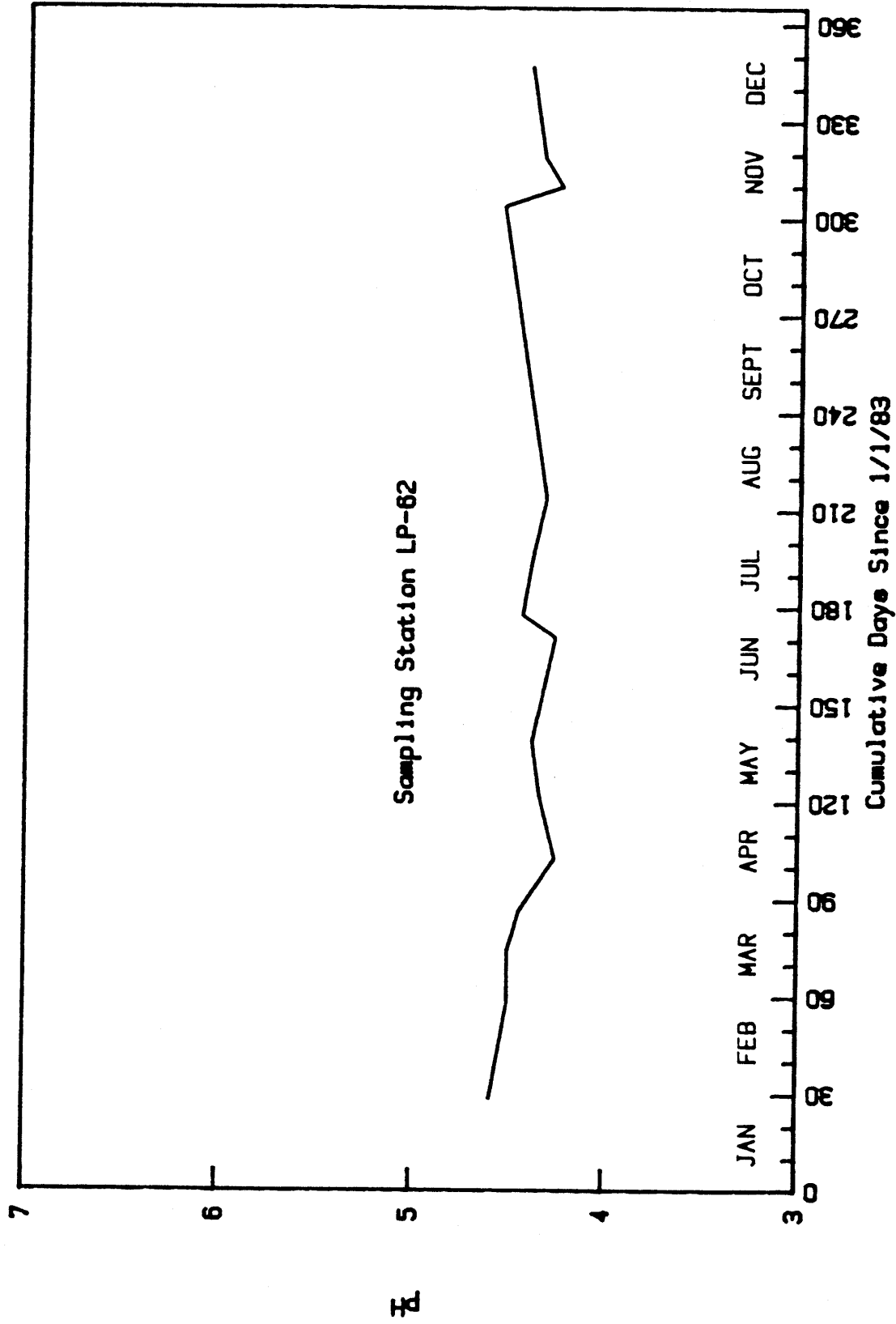


LITTLE PINEY
Upstream from Road Crossing

Sampling Station LP-62

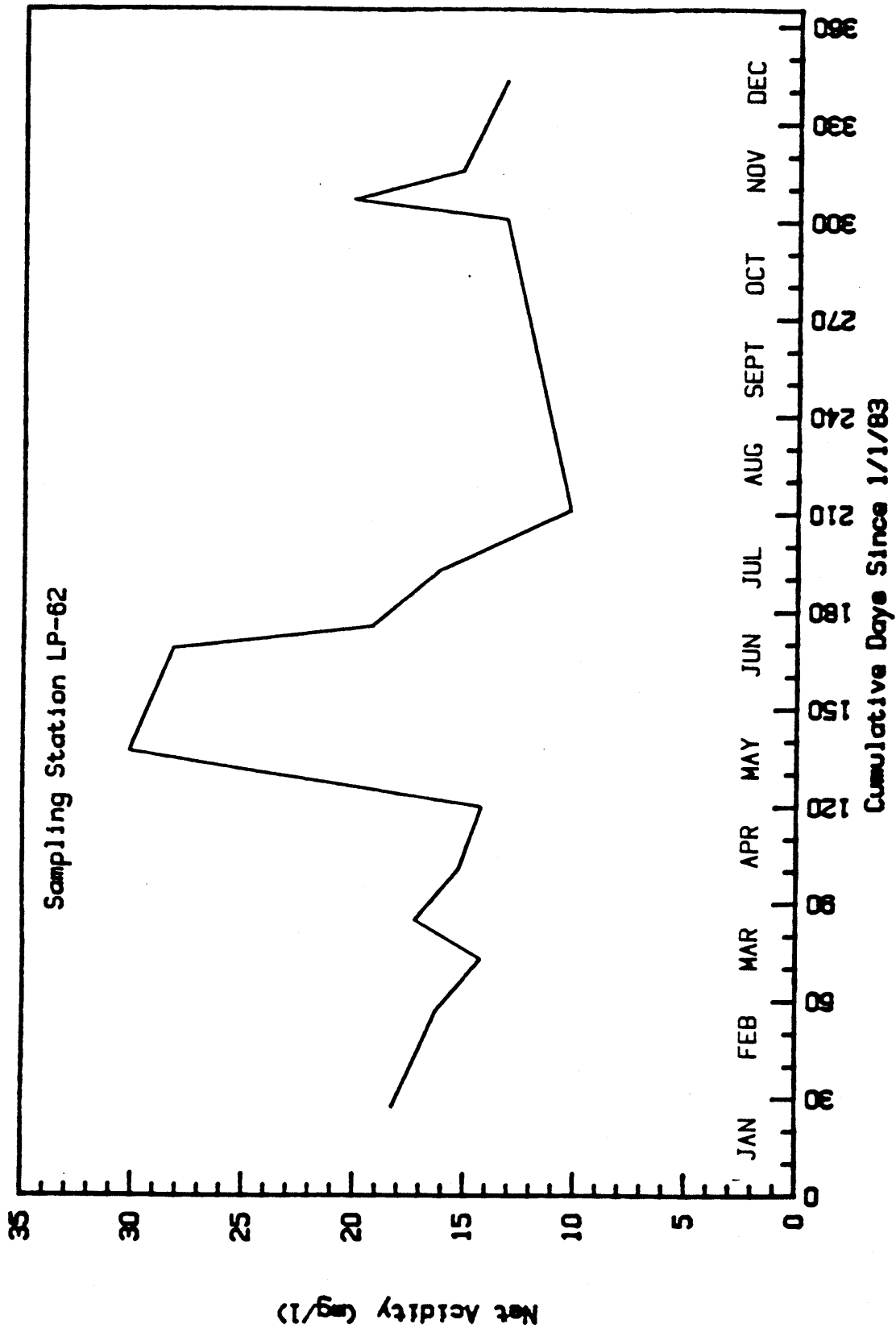
Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	4.75	17	4	32	0.2	0
7/22/82	4.49	12	0	25	0.2	0.1
10/5/82	4.55	10	1	21	0.2	0.1
10/23/82	4.32	20	0	24	0.1	0
11/20/82	4.61	20	1	25	0.1	0
1/29/83	4.59	19	1	25	0.1	0
2/28-3/1/83	4.50	16	0	24	0.1	0
3/16-18/83	4.50	14	0	25	0.1	0
3/28-29/83	4.44	17	0	32	0	0
4/13-14/83	4.26	15	0	22	0.1	0
5/2-3/83	4.34	14	0	24	0.2	0
5/19/83	4.38	30	0	23	0	0
6/20-21/83	4.26	28	0	29	0.2	0
6/27/83	4.43	19	0	31	0.2	0
7/14/83	4.38	16	0	22	0.4	0.1
8/2/83	4.31	10	0	19	0.3	0.1
8/22-23/83	DRY					
8/29-30/83	NO FLOW - SAMPLED STAGNANT POND					
10/5-6/83	NO FLOW - SAMPLED STAGNANT POND					
10/31/83	4.54	14	1	37	0.3	0.1
11/6/83	4.24	20	0	28	0.2	0
11/15/83	4.33	15	0	21	0	0
12/13-14/83	4.40	13	0	22	0	0
1/11/84	4.44	16	0	25	0	0
1/19-20/84	4.37	25	0	22	0.8	0.3
2/8/84	4.40	17	0	21	0.1	0
2/16/84	4.42	20	0	22	0.2	0.1
3/6/84	4.39	19	0	25	0.1	0.1
4/3/84	4.46	12	0	36	0	0

Mashudda Strip Mine Project



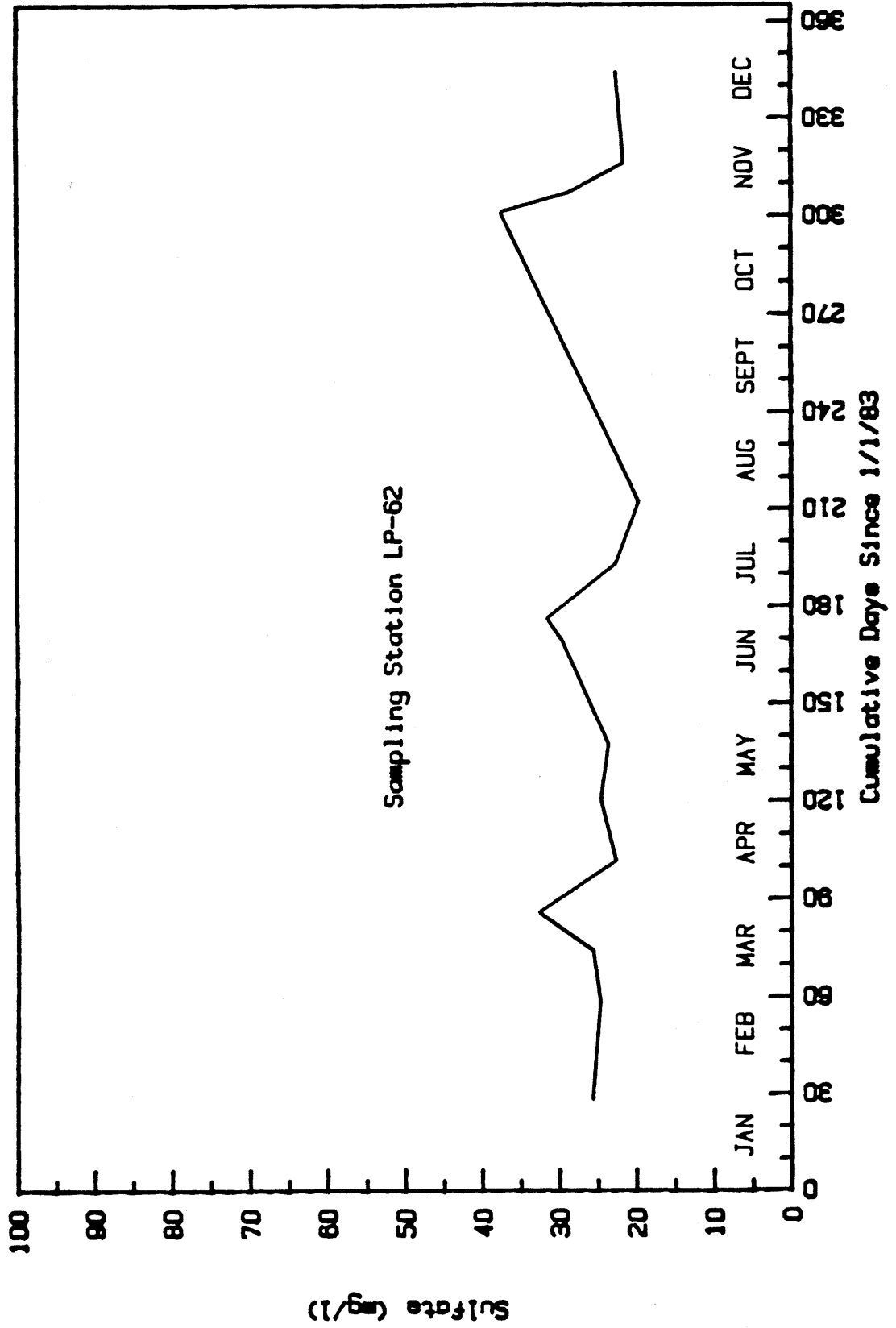
r.e. wright associates, inc.

Mashudda Strip Mine Project



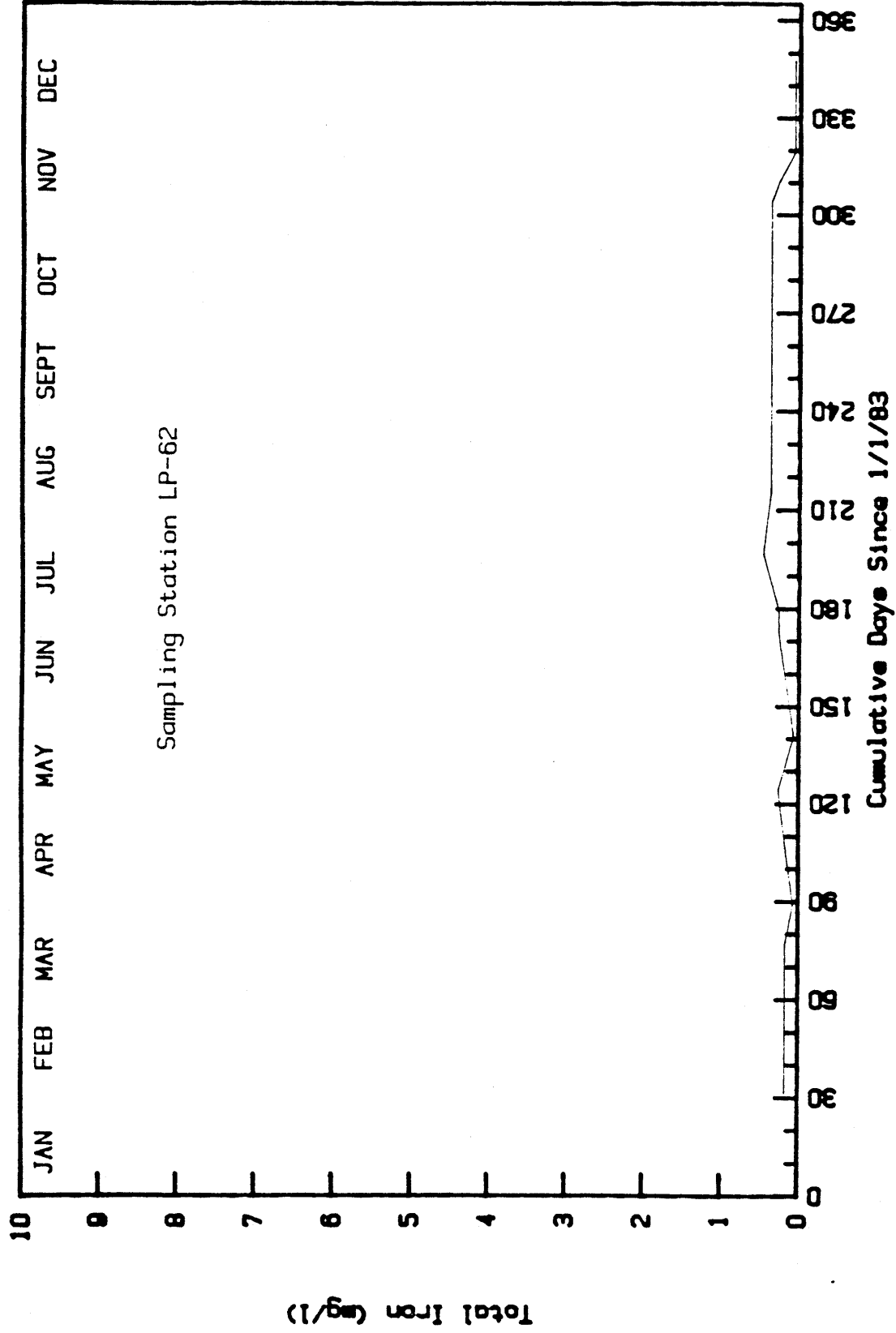
r.e. wright associates, inc.

Mashudda Strip Mine Project



r. e. wright associates, inc.

MASHUDDA STRIP MINE PROJECT



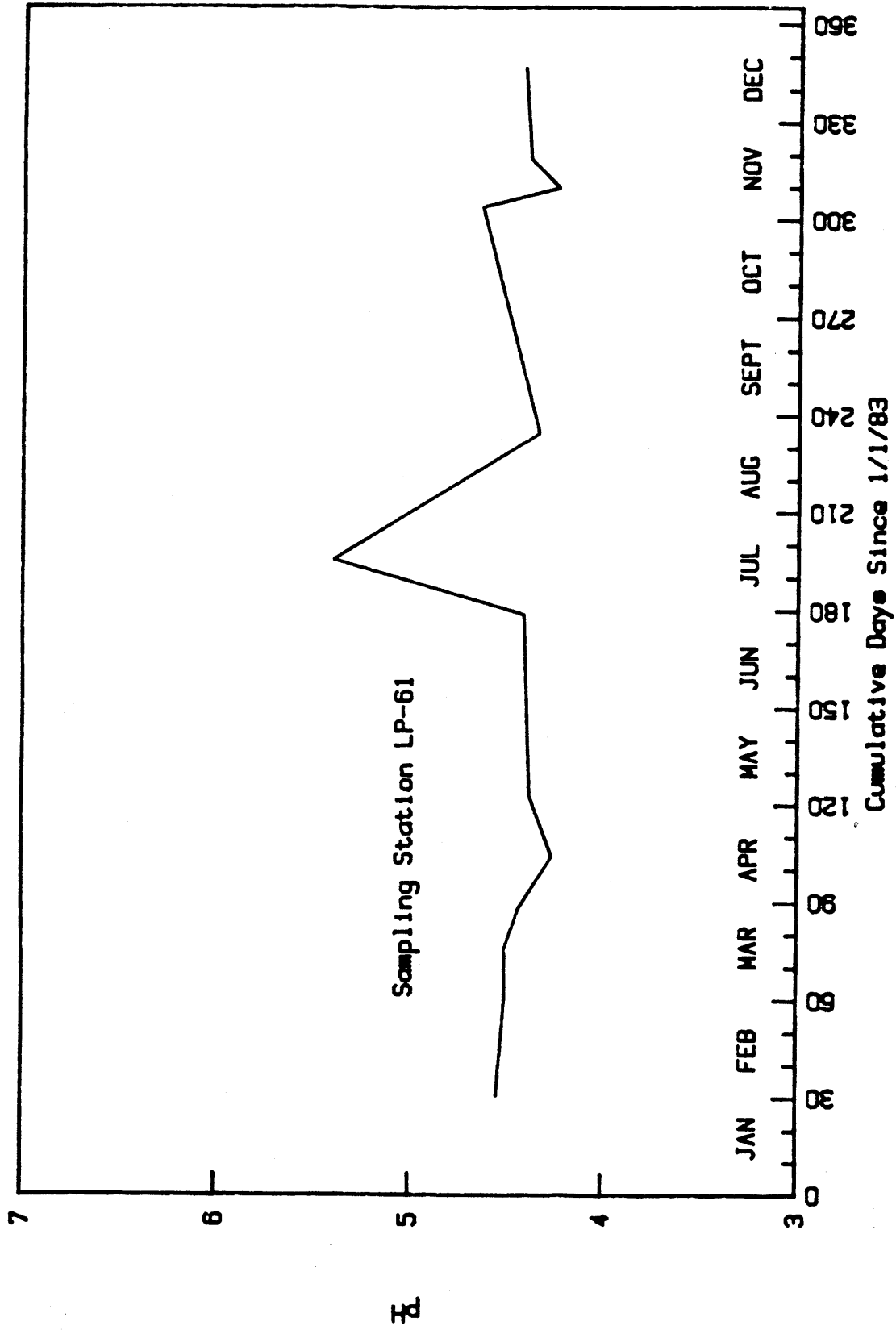
r. e. wright associates, inc.

LITTLE PINEY
Downstream from Road Crossing

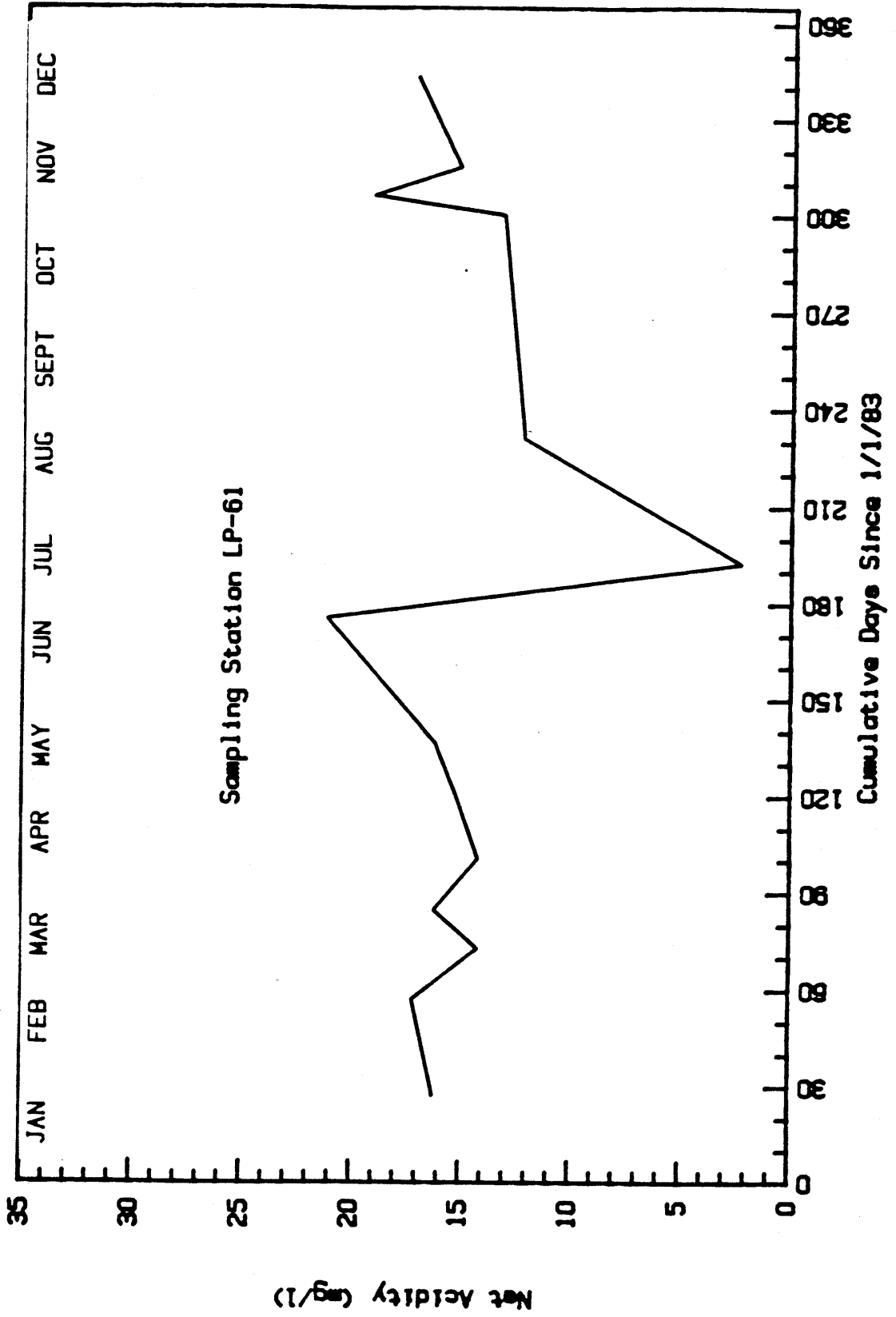
Sampling Station LP-61

Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	4.64	18	3	24	0.3	0
7/22/82	4.69	9	1	21	1.0	0.4
10/5/82	4.60	11	1	22	0.2	0.2
10/23/82	4.38	10	0	24	0.2	0.2
11/20/82	4.39	13	0	32	0.3	0.1
1/29/83	4.55	17	1	24	0.1	0
2/28-3/1/83	4.51	17	0	19	0.1	0
3/16-18/83	4.51	14	0	20	0.1	0
3/28-29/83	4.44	16	0	32	0	0
4/13-14/83	4.27	14	0	23	0.1	0
5/2-3/83	4.39	15	0	24	0.1	0
5/19/83	4.40	16	0	21	0.1	0
6/6-7/83	NO ANALYSIS					
6/20-21/83	NO ANALYSIS					
6/27/83	4.42	21	0	23	0.2	0
7/14/83	5.41	5	3	20	2.5	1.1
8/2/83	4.34	12	0	20	0.3	0.1
8/22-23/83	DRY					
8/29-30/83	NO FLOW - SAMPLE FROM STAGNANT POND					
9/19/83	NO ANALYSIS					
10/5-6/83	NO FLOW					
10/31/83	4.64	14	1	35	0.4	0.3
11/6/83	4.24	19	0	24	0.1	0
11/15/83	4.39	15	0	29	0	0
12/13-14/83	4.42	17	0	24	0	0
1/11/84	4.47	14	0	21	0	0
1/19-20/84	4.51	19	1	23	0.2	0.1
2/8/84	4.39	16	0	22	0.1	0
2/16/84	4.45	17	0	20	0.1	0
3/6/84	4.40	21	0	25	0.1	0
4/3/84	4.45	14	0	20	0	0

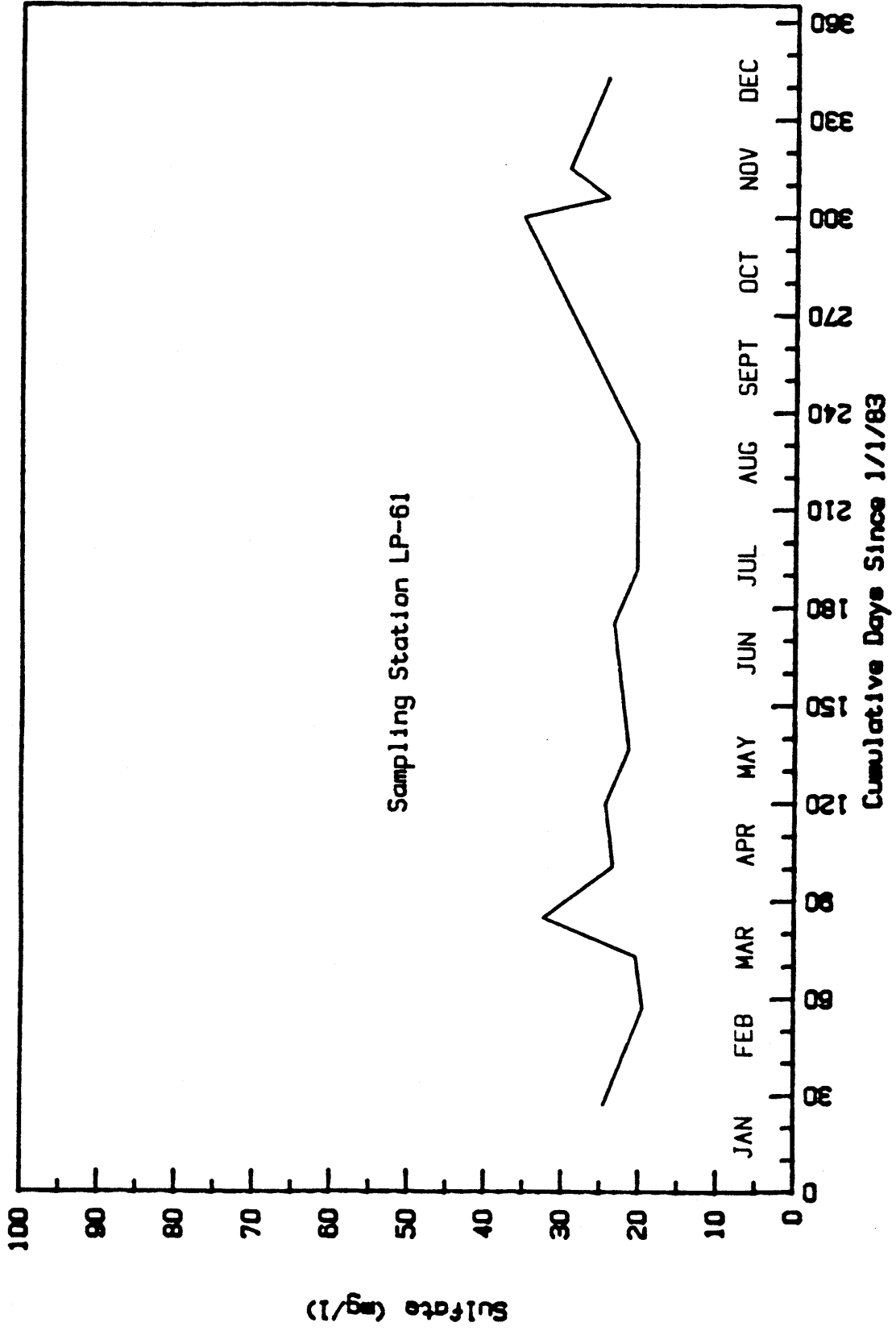
Mashudda Strip Mine Project



Mashudda Strip Mine Project



Mashudda Strip Mine Project

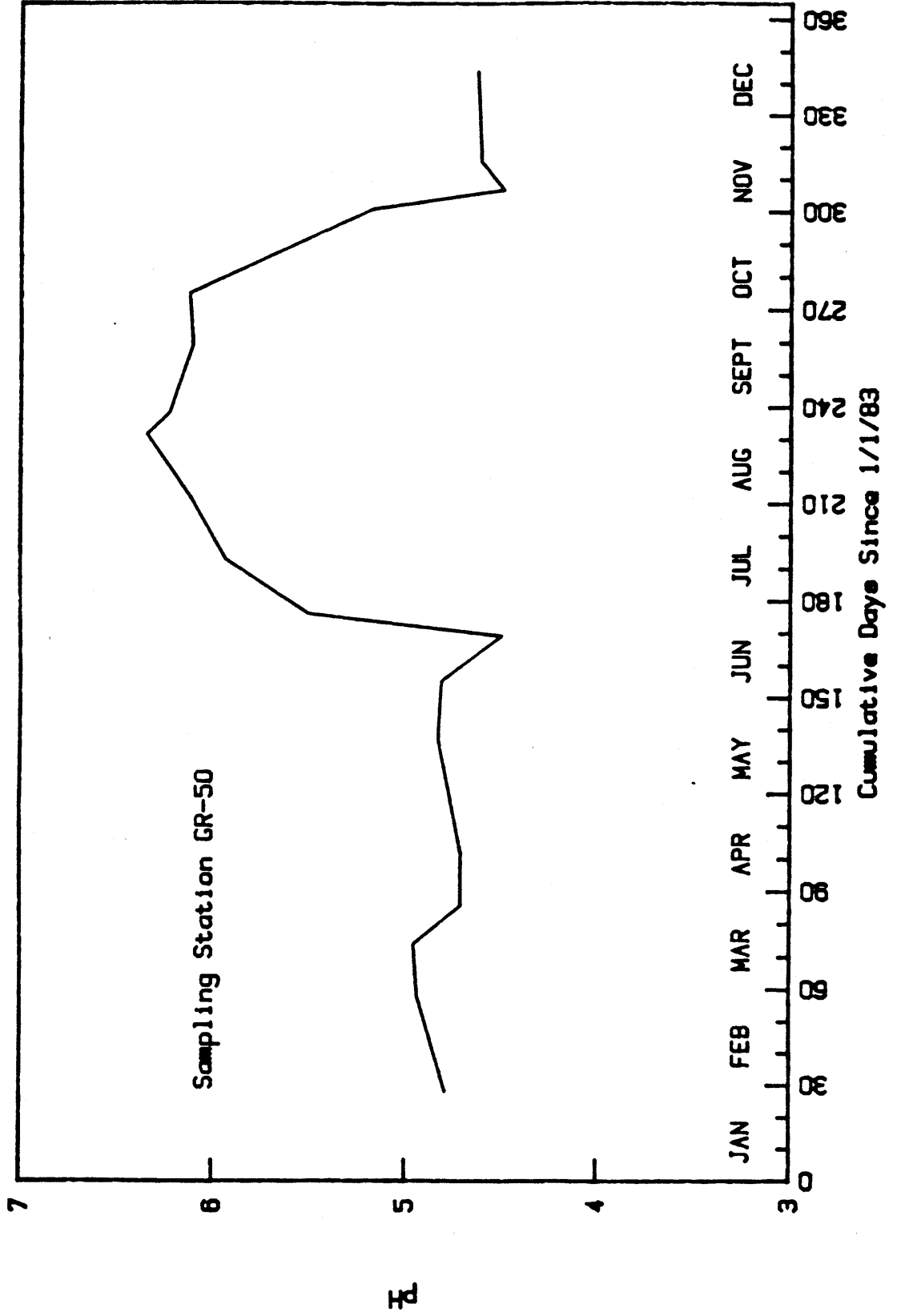


GLADE RUN
at Mouth

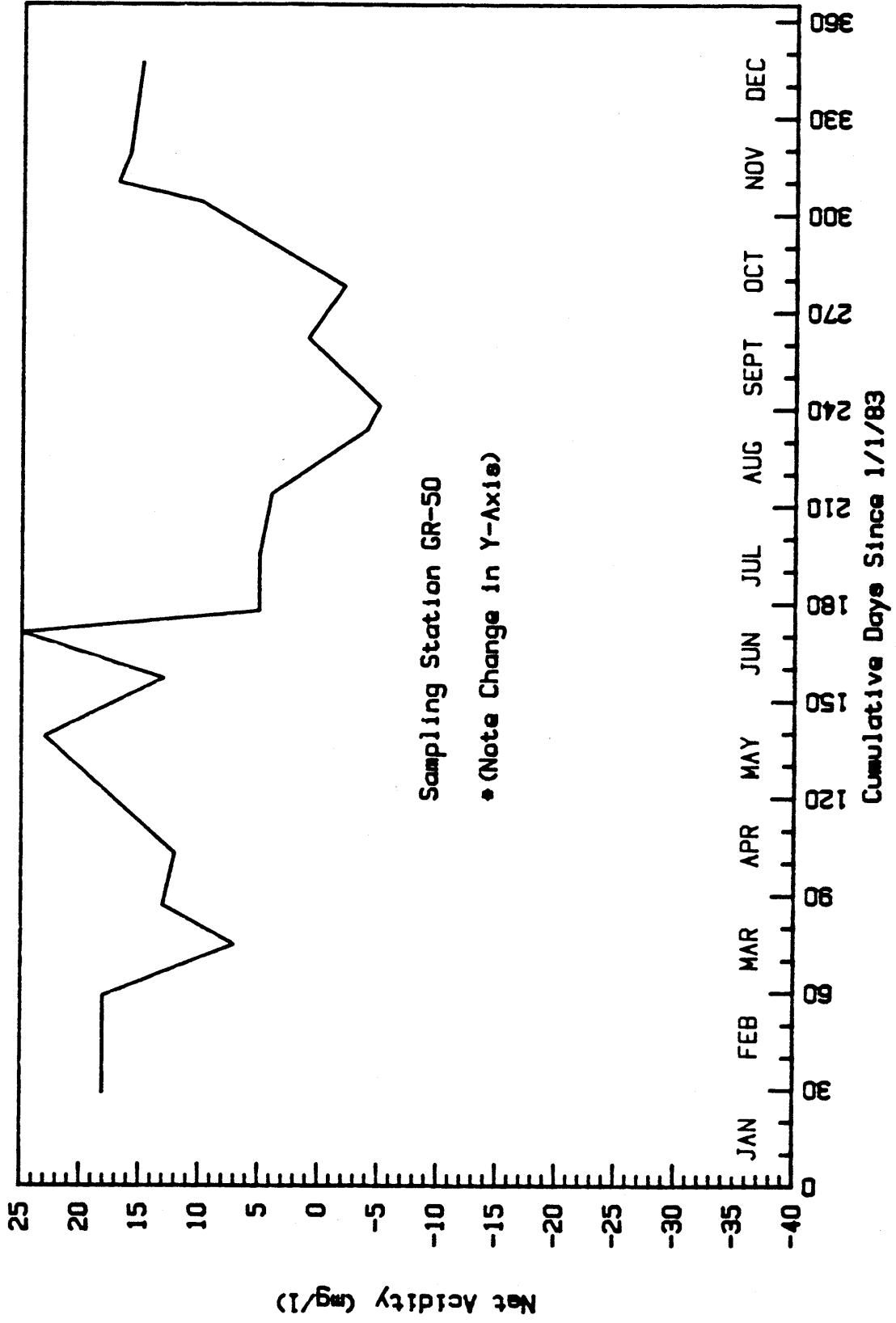
Sampling Station GR-50

Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	5.81	19	5	36	0.2	0.1
7/22/82	5.43	8	2	45	0.1	0
10/5/82	5.28	6	2	46	0	0
10/23/82	5.08	4	1	36	0	0
11/20/83	4.78	13	1	33	0	0
1/29/83	4.78	20	2	36	0.1	0
2/28-3/1/83	4.93	20	2	30	0.1	0
3/16-18/83	4.95	9	2	32	0.1	0
3/28-29/83	4.70	14	1	27	0.1	0
4/13-14/83	4.70	13	1	32	0.2	0.1
5/2-3/83	NOT ACCESSIBLE DUE TO HEAVY RAINS					
5/19/83	4.82	25	2	27	0	0
6/6-7/83	4.80	14	1	37	0.1	0
6/20-21/83	4.49	25	0	49	0.4	0.1
6/27/83	5.50	7	2	36	0.1	0
7/14/83	5.93	9	4	27	0.1	0
8/2/83	6.11	7	3	27	0.1	0.1
8/22-23/83	6.34	3	7	29	0.2	0
8/29-30/83	6.22	2	7	35	0.1	0.1
9/19/83	6.10	6	5	51	0.2	0.1
10/5-6/83	6.12	4	6	24	0.3	0
10/31/83	5.17	12	2	45	0.1	0
11/6/83	4.48	17	0	26	0.1	0
11/15/83	4.60	17	1	38	0.1	0
12/13-14/83	4.62	16	1	35	0.2	0
1/11/84	4.79	25	1	31	0	0
1/19-20/84	INACCESSIBLE					
2/8/84	4.57	15	0	28	0.1	0
2/16/84	4.74	18	2	27	0.2	0
3/6/84	4.72	19	1	32	0.2	0
4/3/84	4.78	12	1	28	0	0

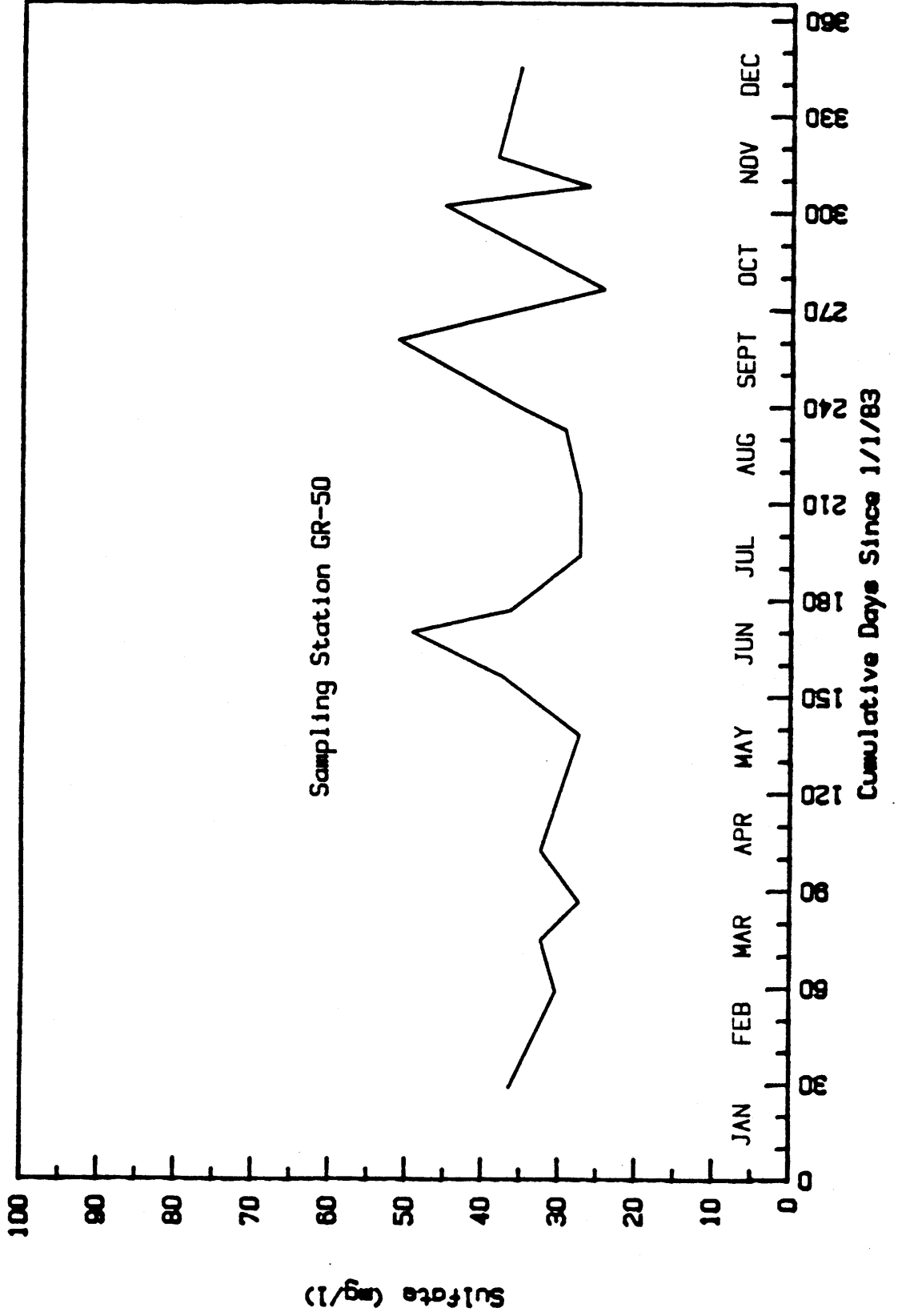
Mashudda Strip Mine Project



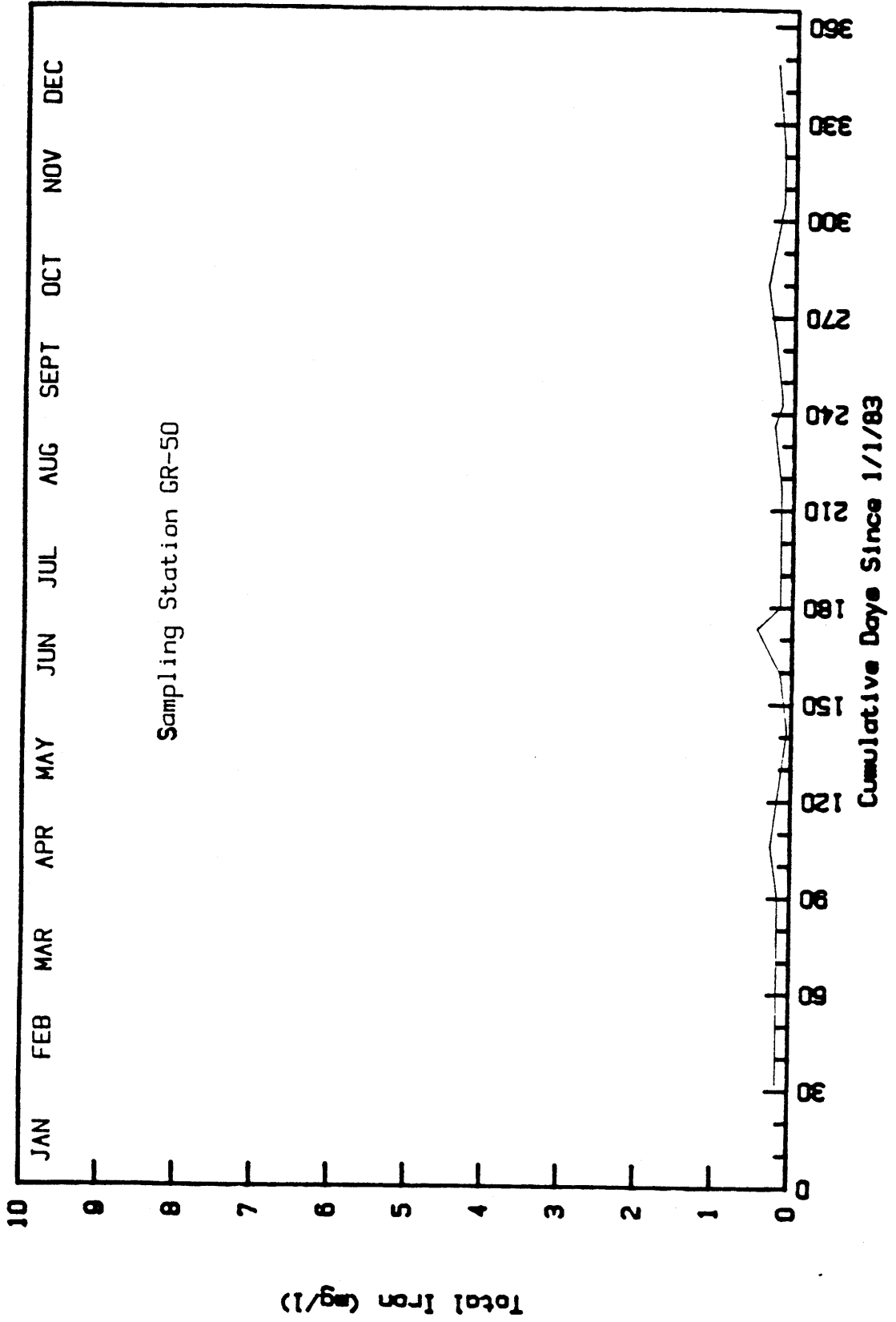
Mashudda Strip Mine Project



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MASHUDDA STRIP MINE PROJECT

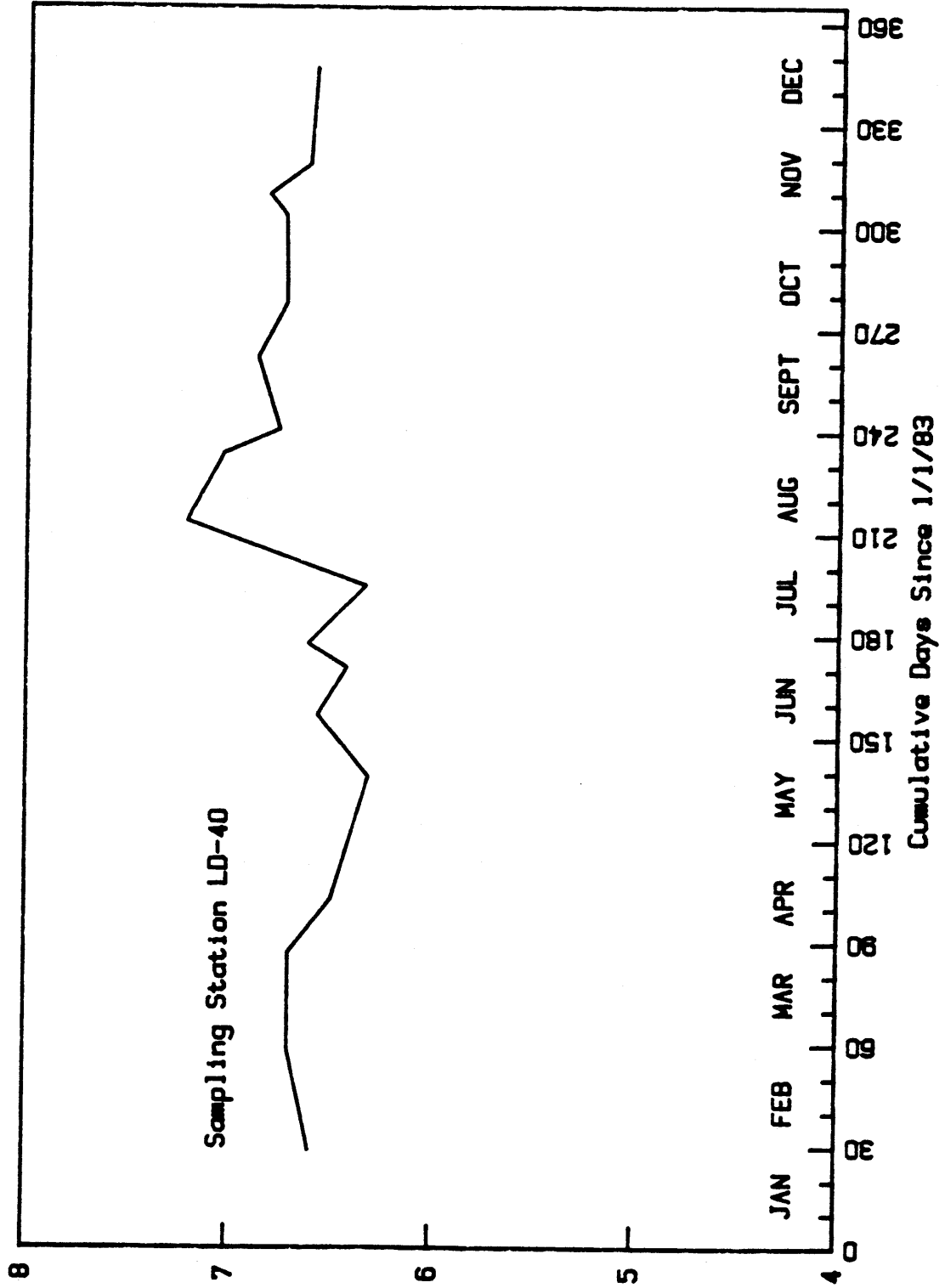


LITTLE DUNBAR
at Mouth

Sampling Station LD-40

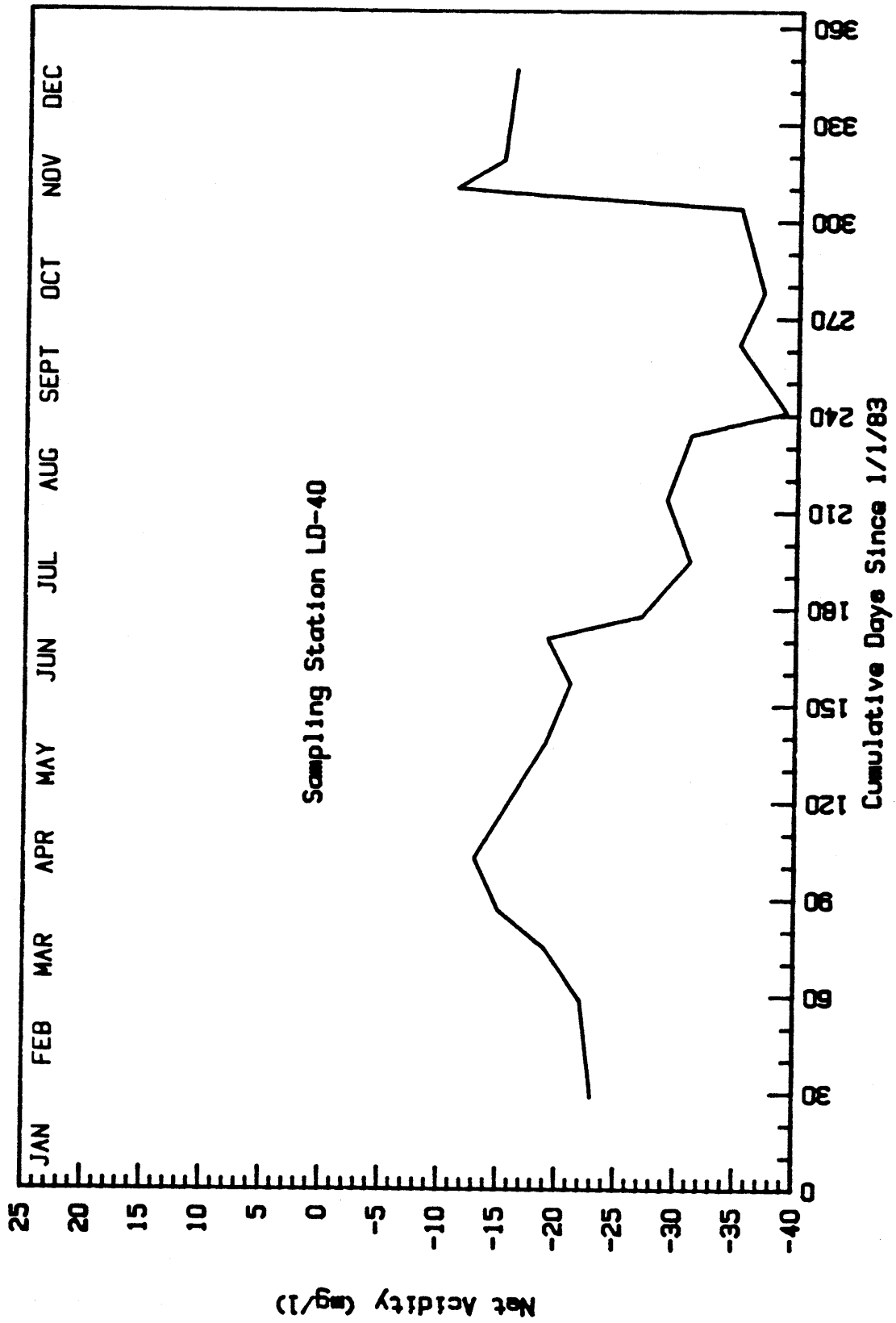
Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	7.02	0	28	28	0	0
7/22/82	7.40	0	29	25	0.1	0
10/5/82	6.69	0	39	34	0	0
10/23/82	6.97	0	41	23	0	0
11/20/82	6.48	0	26	29	0	0
1/29/83	6.59	0	23	25	0	0
2/28-3/1/83	6.70	0	22	24	0	0
3/16-18/83	6.70	0	19	23	0.1	0
3/28-29/83	6.70	0	15	28	0	0
4/13-14/83	6.49	0	13	24	0.1	0
5/2-3/83	NOT ACCESSIBLE DUE TO HEAVY RAINS					
5/19/83	6.31	0	19	30	0	0
6/6-7/83	6.56	0	21	21	0	0
6/20-21/83	6.42	0	19	24	0.1	0
6/27/83	6.61	0	27	26	0.1	0
7/14/83	6.33	0	31	24	0.2	0
8/2/83	7.21	0	29	23	0.1	0
8/22-23/83	7.03	0	31	26	0.2	0
8/29-30/83	6.76	0	39	29	0.2	0.1
9/19/83	6.87	2	37	36	0.1	0.1
10/5-6/83	6.73	0	37	24	0.1	0
10/31/83	6.74	0	35	31	0.1	0
11/6/83	6.82	3	14	24	0	0
11/15/83	6.62	0	15	31	0	0
12/13-14/83	6.59	0	16	58	0	0
1/11/84	6.42	3	29	20	0	0
1/19-20/84	INACCESSIBLE					
2/8/84	6.48	0	20	20	0	0
2/16/84	6.37	0	14	20	0.1	0
3/6/84	6.29	5	14	29	0.1	0
4/3/84	6.78	0	15	27	0	0

Mashudda Strip Mine Project

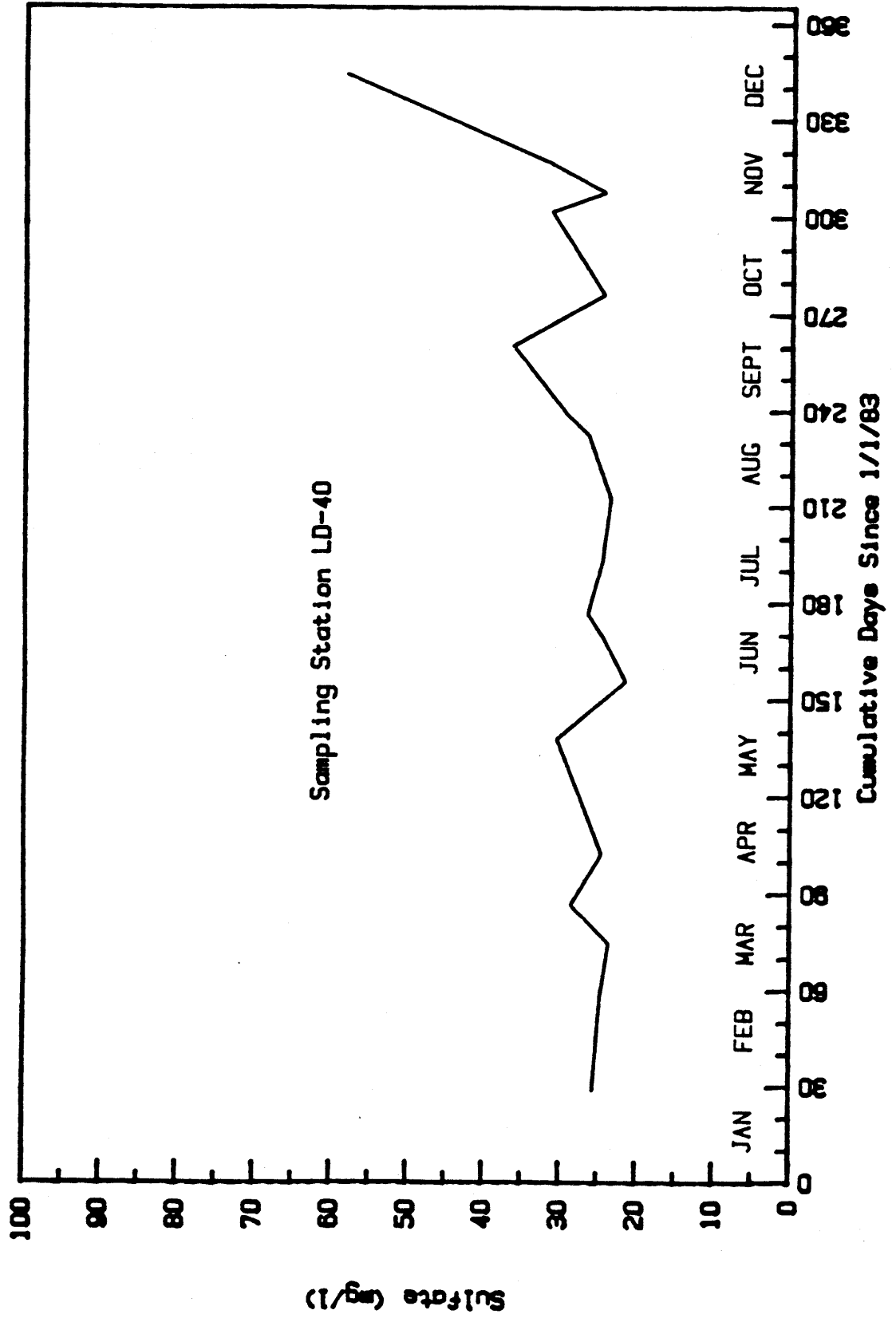


五

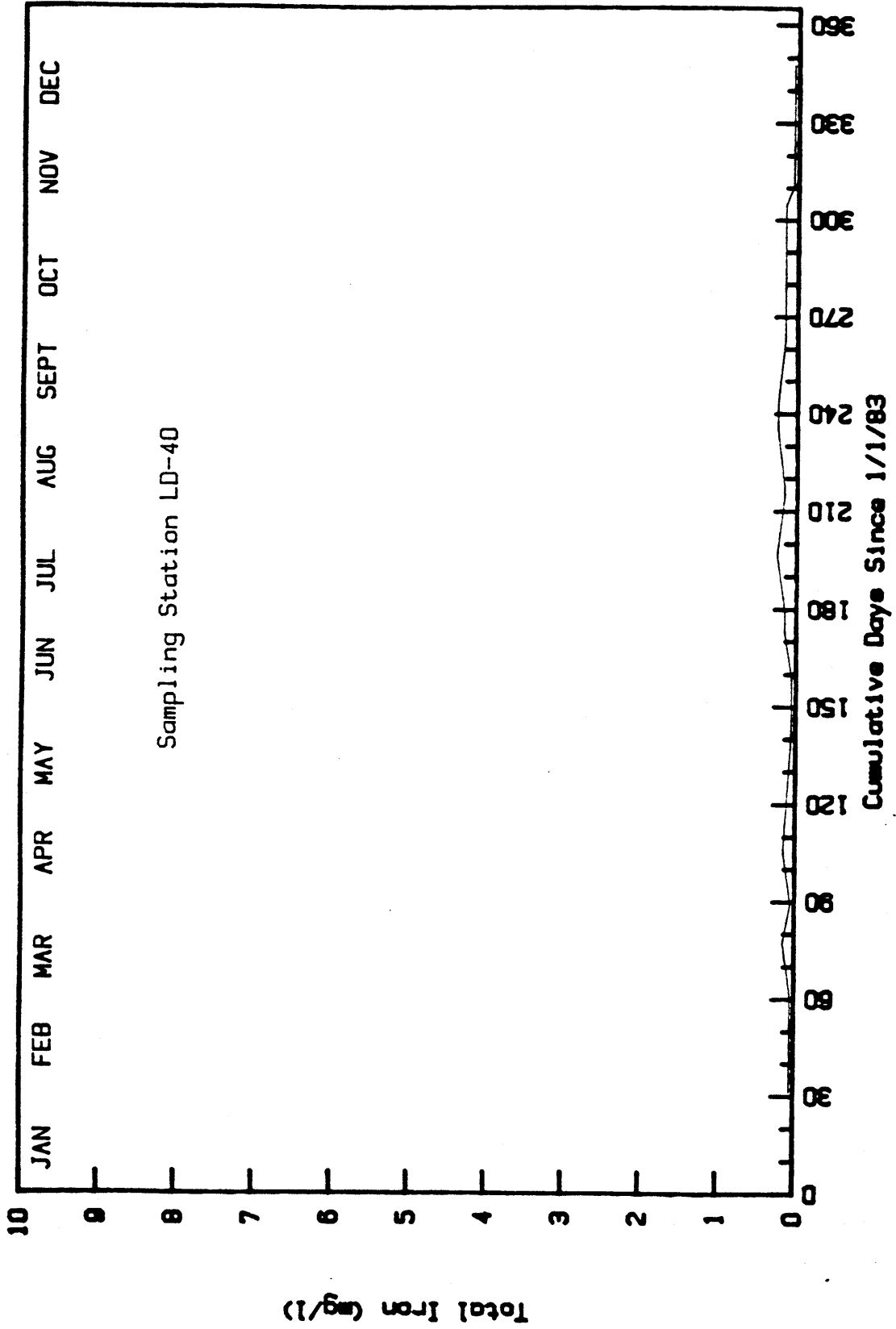
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MASHUDDA STRIP MINE PROJECT

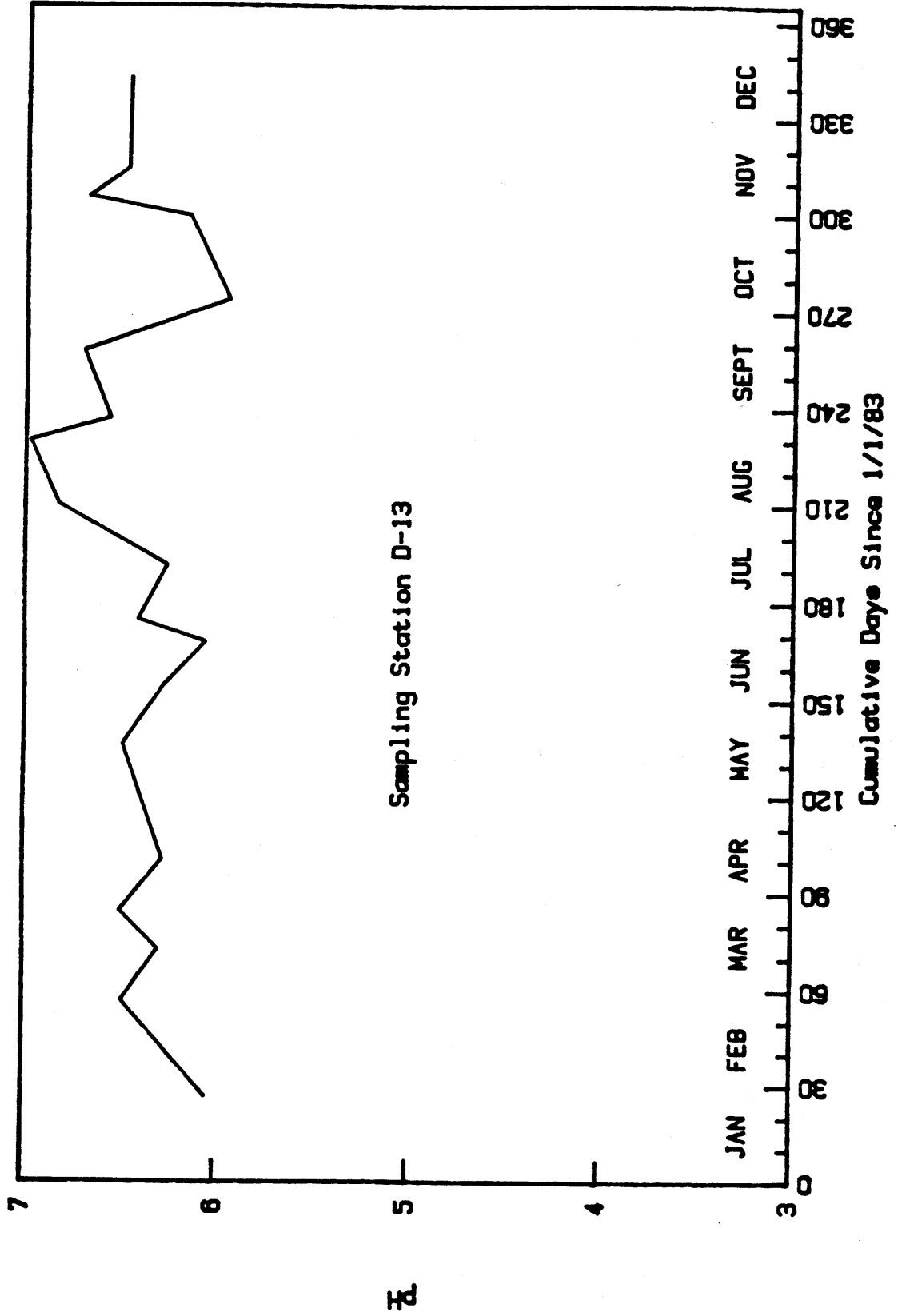


DUNBAR CREEK
First Ford Downstream from Mouth of Little Dunbar

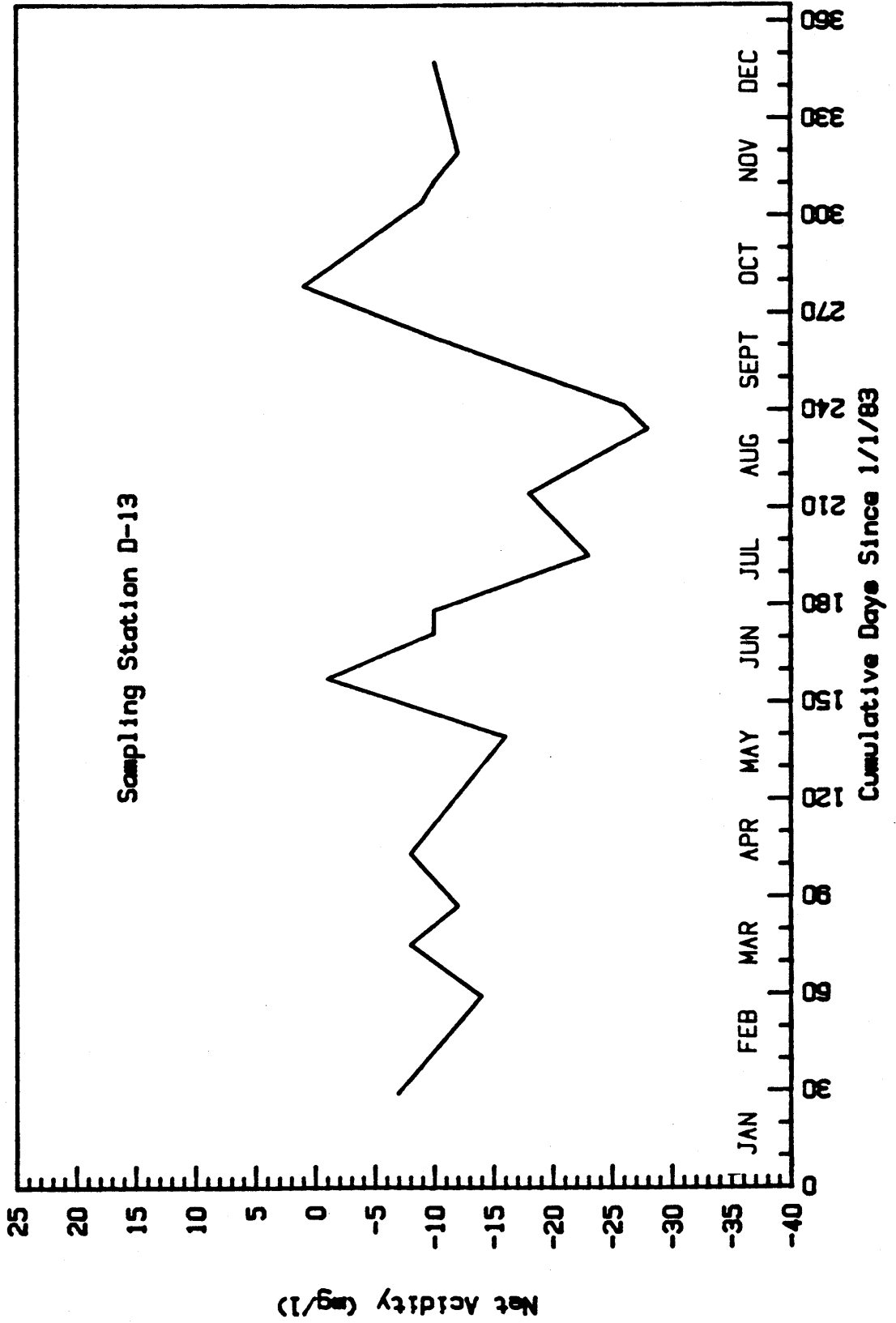
Sample Station D-13

Sampling Date	pH	Acidity mg/l	Alkalinity mg/l	Sulfates mg/l	Iron, mg/l	
					Total	Ferrous
6/11/82	6.28	0	46	32	0.1	0
7/22/82	6.85	4	14	37	0	0
10/5/82	6.35	0	16	51	0	0
10/23/82	6.52	1	12	25	0	0
11/20/82	6.11	2	7	46	0	0
1/29/83	6.05	3	10	45	0.1	0
2/28-3/1/83	6.49	0	14	25	0	0
3/16-18/83	6.30	0	8	47	0.1	0
3/28-29/83	6.50	2	14	28	0.1	0
4/13-14/83	6.28	0	8	27	0.1	0
5/2-3/83	NOT ACCESSIBLE DUE TO HEAVY RAINS					
5/19/83	6.49	0	16	41	0	0
6/6-7/83	6.28	1	2	29	0.1	0
6/20-21/83	6.06	1	11	33	0.2	0.1
6/27/83	6.41	5	15	39	0.1	0
7/14/83	6.26	0	23	32	0.1	0
8/2/83	6.83	0	18	22	0.1	0
8/22-23/83	6.98	0	28	32	0.1	0
8/29-30/83	6.56	0	26	28	0.5	0.2
9/19/83	6.70	10	20	42	0.1	0.1
10/5-6/83	5.94	7	6	28	0.4	0.1
10/31/83	6.15	2	11	40	0.2	0.1
11/6/83	6.68	4	14	27	0.1	0
11/15/83	6.47	0	12	29	0	0
12/13-14/83	6.46	4	14	27	0.1	0
1/11/84	6.04	1	36	35	0	0
1/19-20/84	INACCESSIBLE					
2/8/84	6.25	2	14	24	0.1	0
2/16/84	6.32	0	12	24	0.1	0
3/6/84	6.21	0	11	36	0.1	0
4/3/84	6.64	0	13	28	0	0

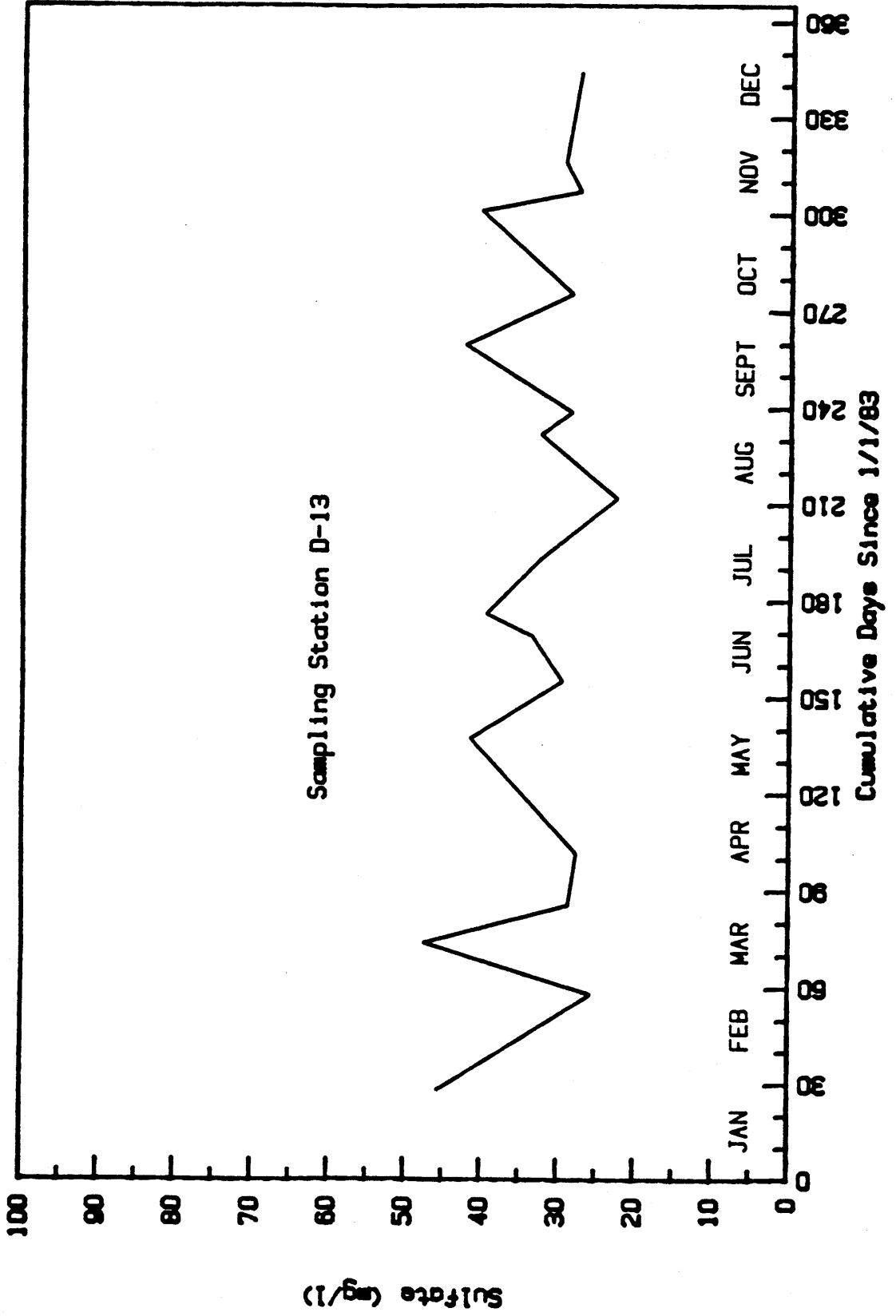
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