Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 450 | Property: Star Point | Location: 2500' N 1875' E of SW corn. Sec 23, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9710

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/19/92	0.0334	7.6	532	6.2				285	268	0	1	39	81	20	1	3	<	0			
Jun-92																						
Jul-92	07/15/92	0.005	7	507	5.9																	
Aug-92	08/26/92	0.002	8.4	519	8.1																	
Sep-92	09/21/92	0.002	6.4	519	7.2				287	248	24	3	12	82	20	1	2	<	0			
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/22/93	0.048	6.2	481	5	238			248	329	0	2	2	73	16 <	1	2	<	0.02	0.02 <	0.01	
Jul-93	07/27/93	0.012	6.3	484	5.6	292			283	325	0	2	27	82	19 <	1	3	<	0.02 <	0.02 <	0.01	
Aug-93	08/17/93	0.003	6.3	480	7																	COW HAD TO MUDDY T
Sep-93	09/27/93	0																				
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/08/94	0.004	7.5	586	4	270			283	336	0	2	10	82	19 <	1	2	<	0.02	0.11 <	0.01	
Jul-94	07/19/94	0																				NO FLOW
Aug-94	08/31/94	0																				NO FLOW
Sep-94	09/21/94	0																				NO FLOW
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.07	7.5	520	5	240			281	255 <	2	3	10	81	19	0.9	2.7	3.2 <	0.01	0.02 <	0.005	
Jul-95	07/27/95	0.006	7.3	525	7	300			292	270 <	2	3	20	83.6	20.1	0.8	2.6	0.5	0.03	0.43	0.017	
Aug-95	08/23/95	0																				Damp - No Sample
Sep-95	09/27/95																					
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/11/96	0.018	8	534	5	293			288	276	2 <	1	20	82.9	19.7	0.9	2.6	-0.6	0.01 <	0.04	0.005	
Jul-96	07/23/96	0.0007	8.39	523	13																	Damp - No Sample
Aug-96	08/19/96	0																				Dry
Sep-96	09/30/96	0																				
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/18/97	0.03	7.92	640	5	292			315	273	2 <	2	10 <	91.3	21.2	0.9	2.7	5.9	0.01 <	0.07	0.005	
Jul-97	07/30/97	0																				Damp - No Sample
Aug-97	08/13/97	0																				Damp - No Sample
Sep-97	09/16/97	0																				Damp - No Sample
Oct-97																						
Nov-97																						
Dec-97																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

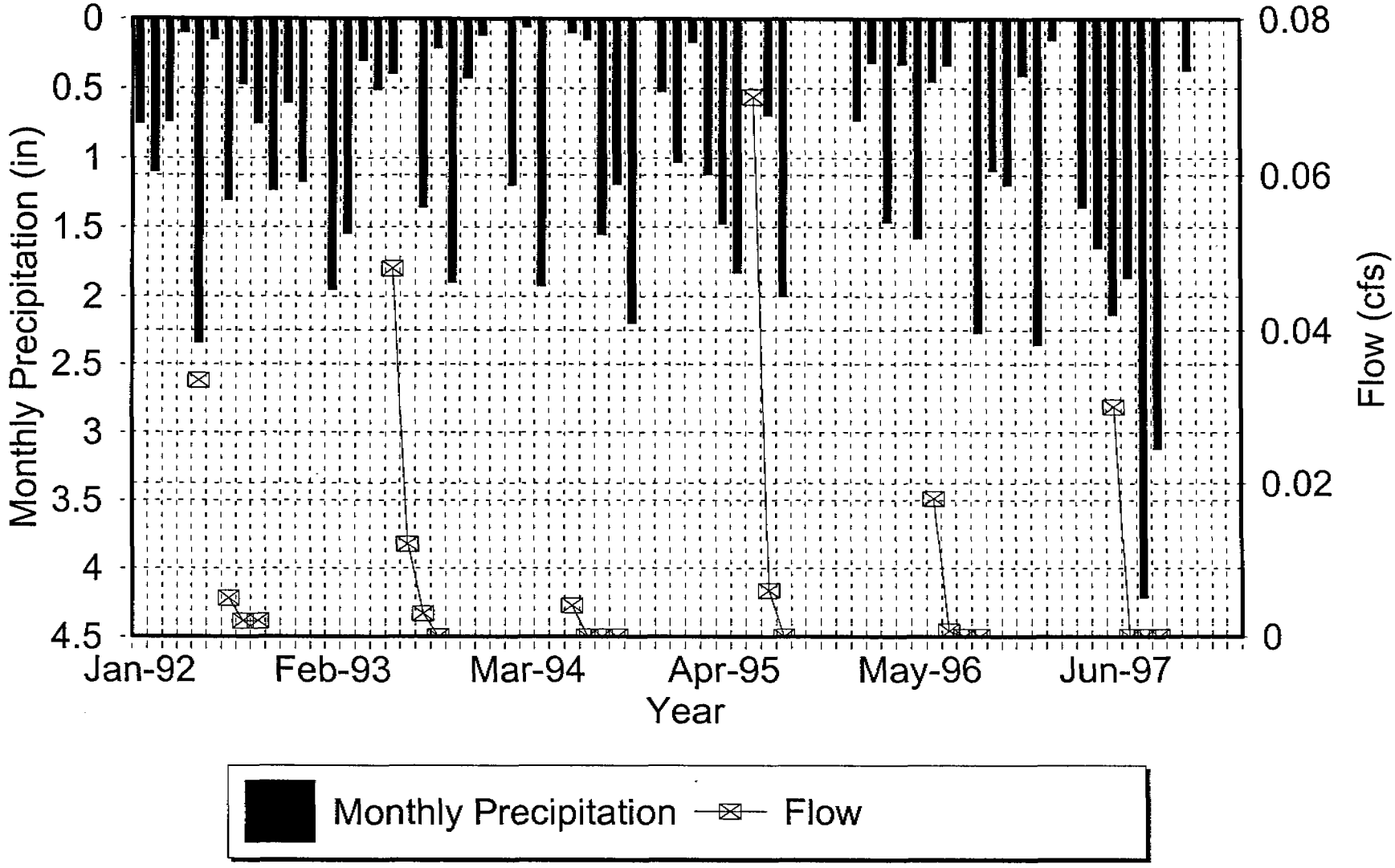
Station: 450 | Property: Star Point | Location: 2500' N 1675' E of SW corn. Sec 23, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9710

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
Count		23	13	13	13	7	0	0	9	9	9	9	9	9	9	9	9	4	9	7	7	
Minimum		0	6.2	480	4	238	ERR	ERR	248	248 <	0 <	1	2 <	73	16 <	0.8	2	-0.6 <	0 <	0.02 <	0.005	
Maximum		0.07	8.4	640	13	300	ERR	ERR	315	336 <	24 <	3	39 <	91.3	21.2 <	1	3	5.9 <	0.03 <	0.43 <	0.017	
Average		0.0102	7.2931	526.92	6.4615	275	ERR	ERR	284.67	286.67 <	3.5556 <	2.1111	16.667 <	82.089	19.333 <	0.9444	2.5111	2.25 <	0.0133 <	0.1014 <	0.0089	
Standard Deviation		0.0179	0.7622	42.149	2.189	24.337	ERR	ERR	16.173	31.833 <	7.2894 <	0.737	10.53 <	4.3816	1.3556 <	0.0685	0.3871	2.5204 <	0.0094 <	0.1377 <	0.0041	
Avg. -1 Std. Dev.		-0.008	6.5309	484.77	4.2726	250.66	ERR	ERR	268.49	254.83 <	-3.734 <	1.3741	6.1363 <	77.707	17.978 <	0.876	2.124	-0.27 <	0.0039 <	-0.036 <	0.0048	
Avg. +1 Std. Dev.		0.0281	8.0553	569.07	8.6505	299.34	ERR	ERR	300.84	318.5 <	10.845 <	2.8481	27.197 <	86.471	20.689 <	1.0129	2.8983	4.7704 <	0.0228 <	0.2391 <	0.0129	
Avg. -2 Std. Dev.		-0.026	5.7687	442.63	2.0836	226.33	ERR	ERR	252.32	223 <	-11.02 <	0.6371	-4.394 <	73.326	16.622 <	0.8075	1.7368	-2.791 <	-0.006 <	-0.174 <	0.0008	
Avg. +2 Std. Dev.		0.0461	8.8174	611.22	10.839	323.67	ERR	ERR	317.01	350.33 <	18.134 <	3.5852	37.727 <	90.852	22.045 <	1.0814	3.2854	7.2908 <	0.0322 <	0.3768 <	0.017	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

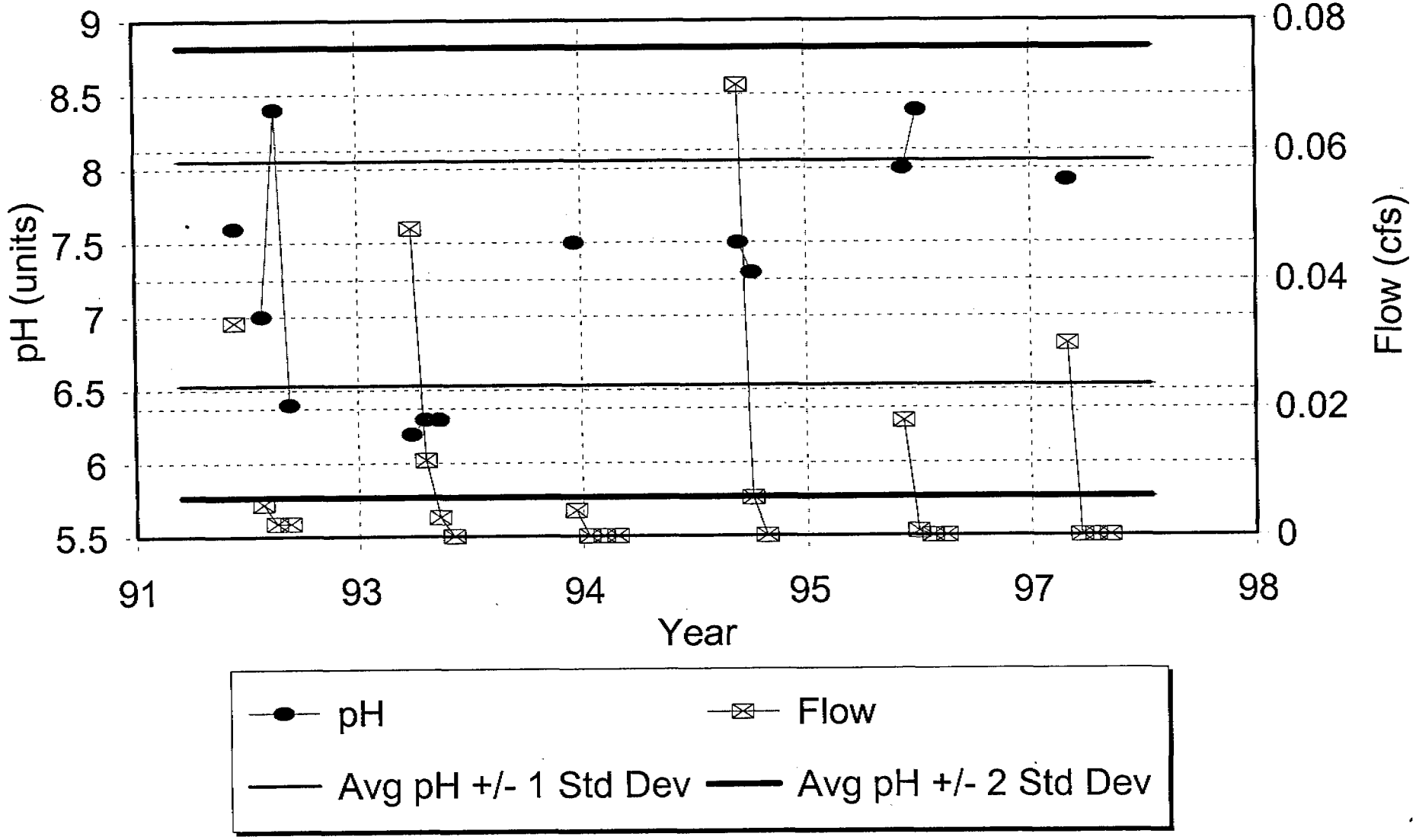
Station 450

Monthly Precipitation vs. Flow



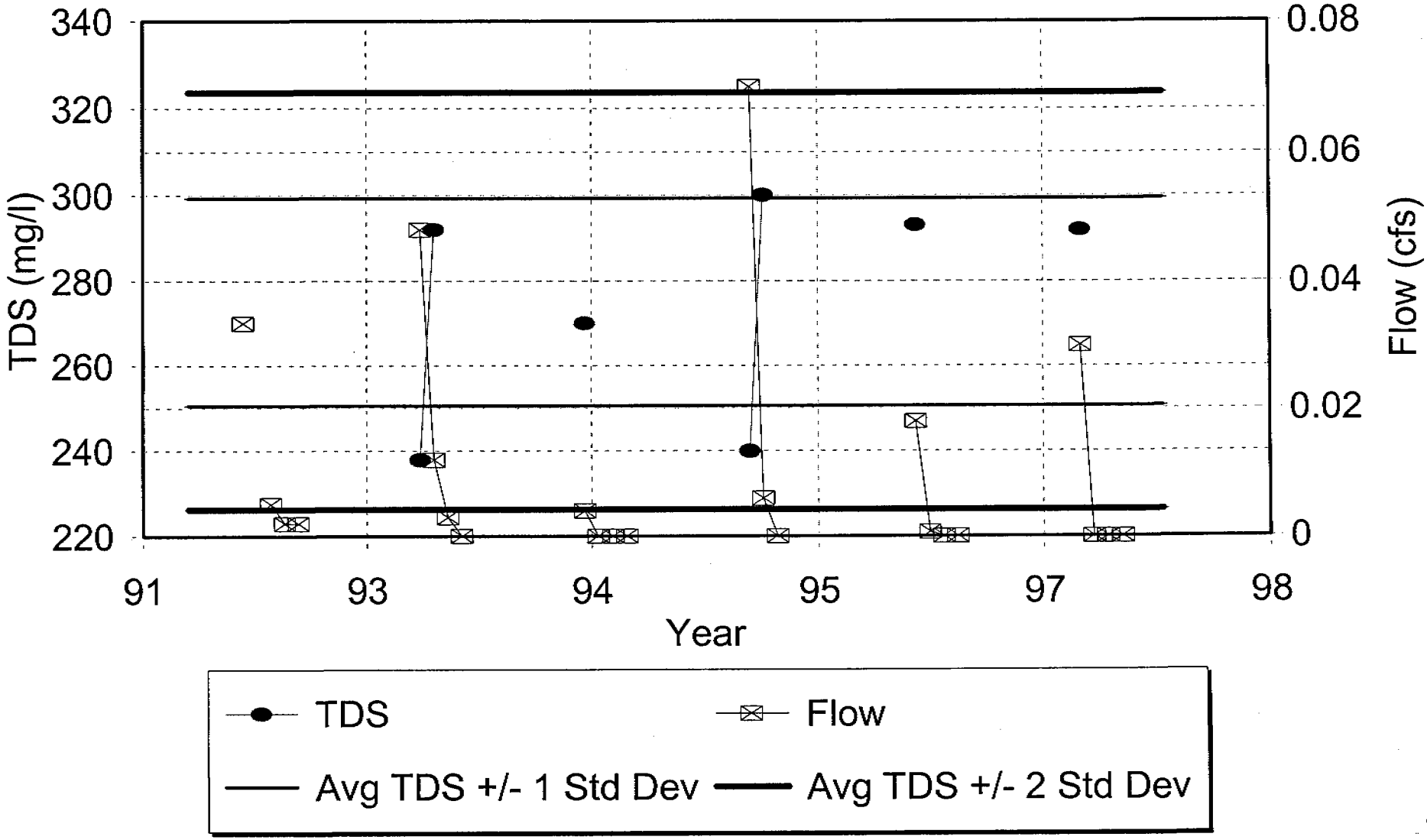
Station 450

pH vs. Flow



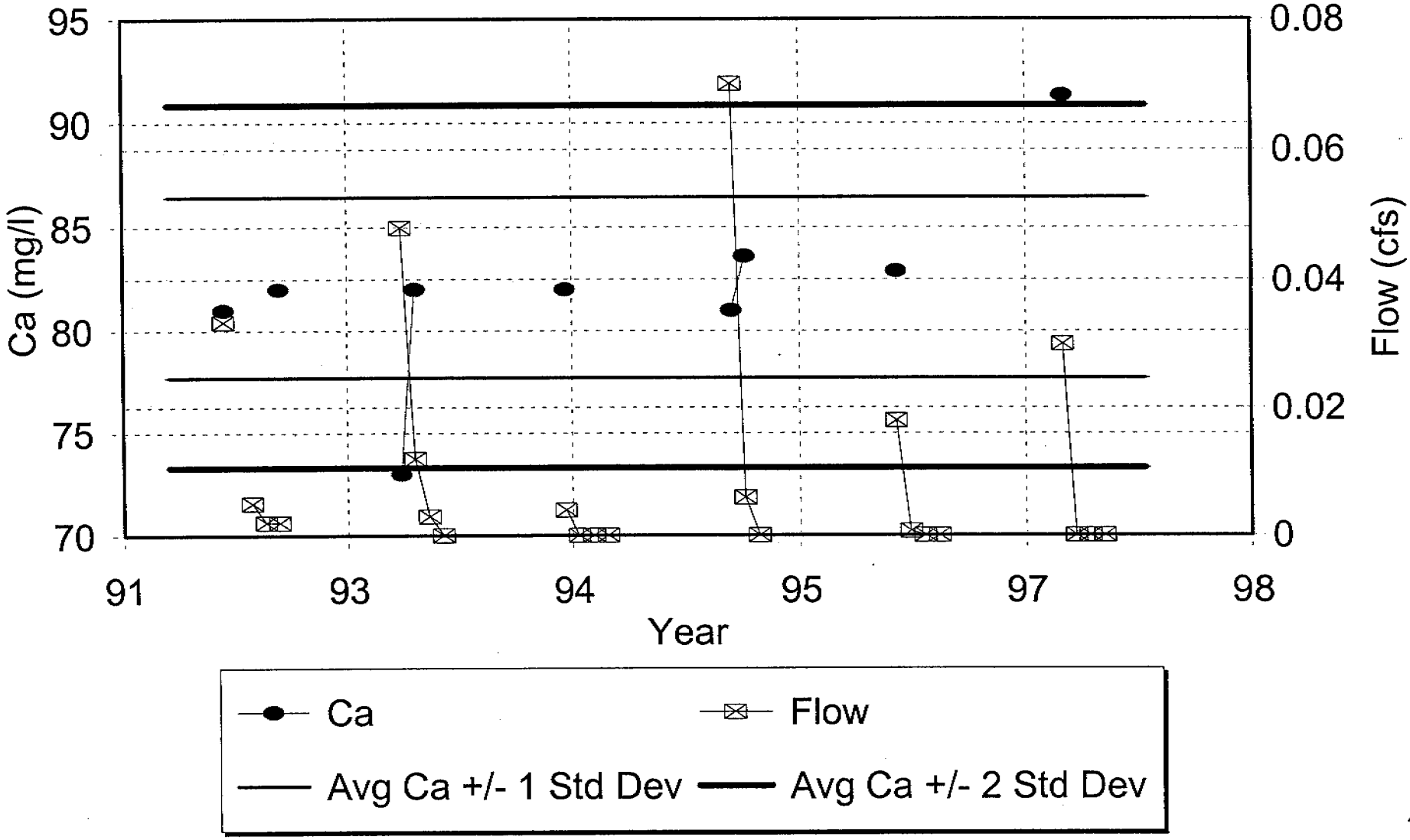
Station 450

TDS vs. Flow



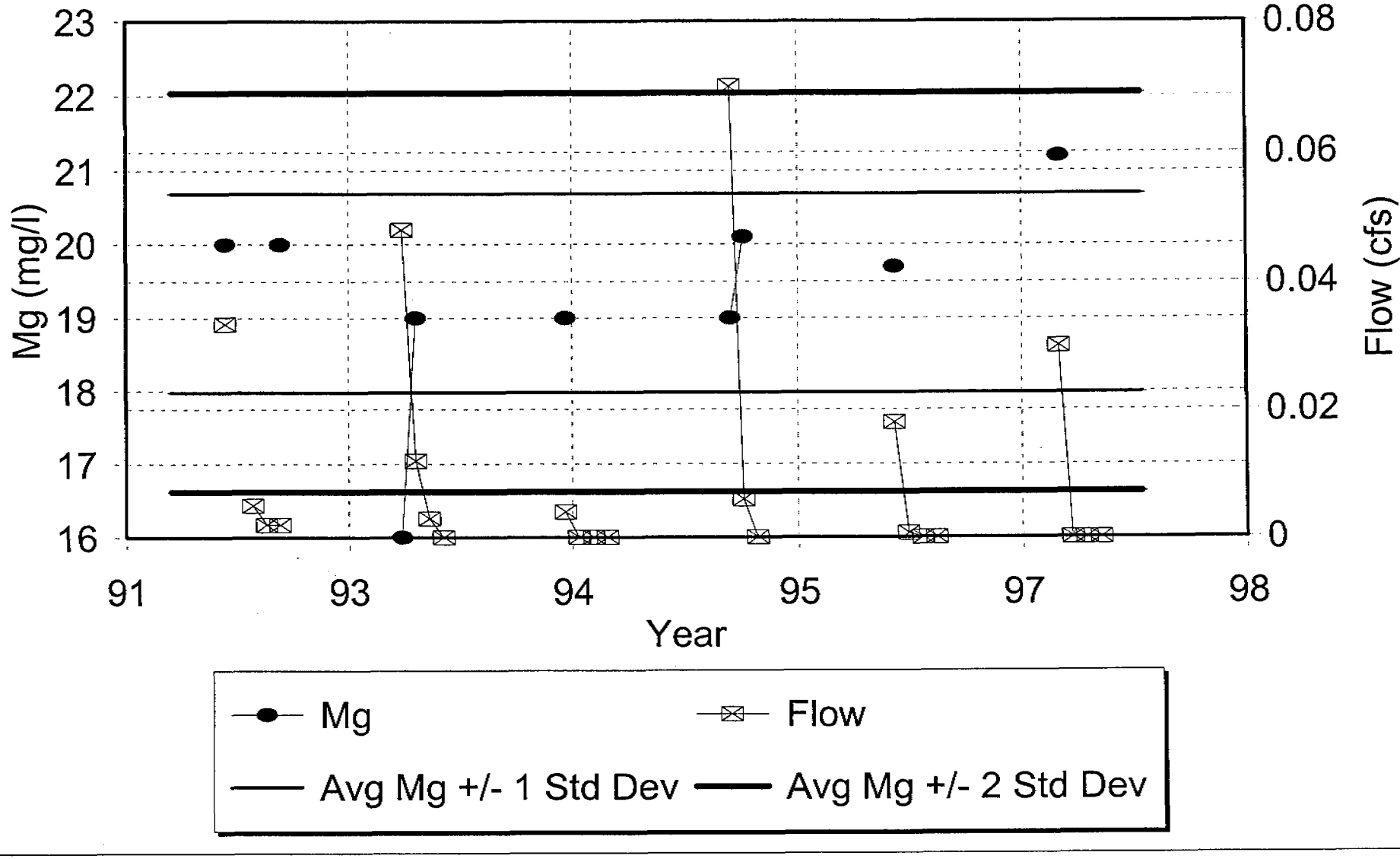
Station 450

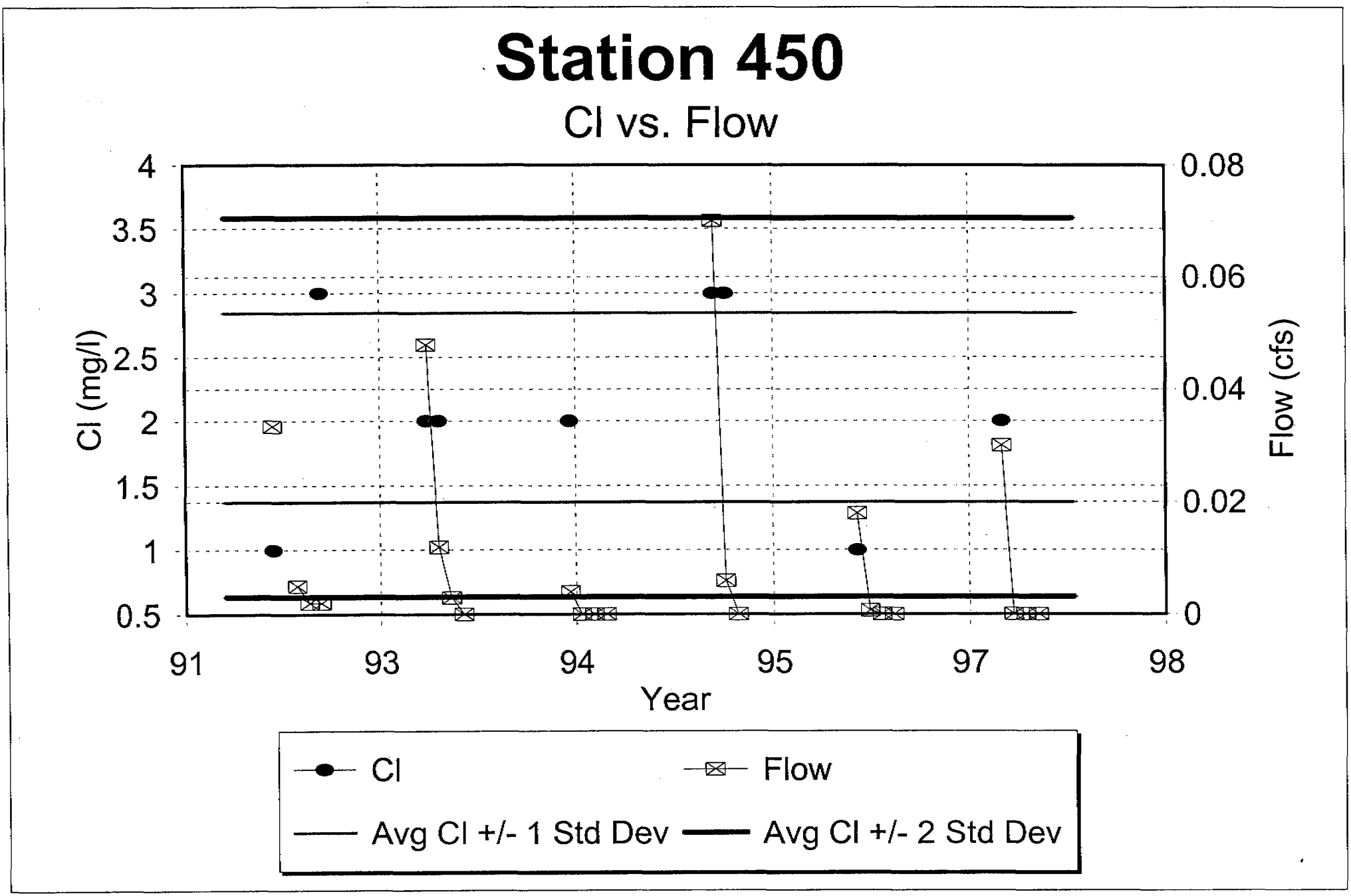
Ca vs. Flow

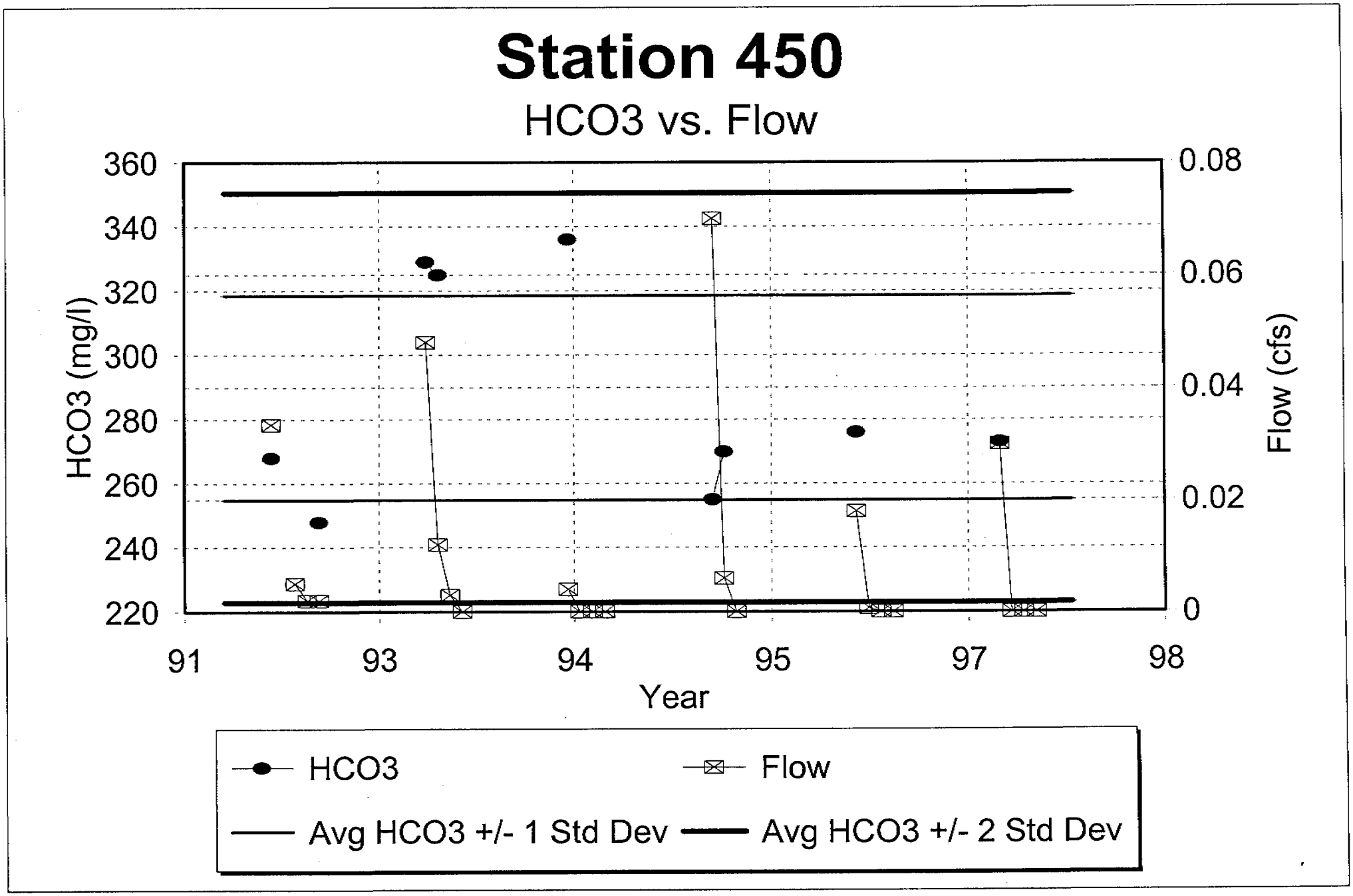


Station 450

Mg vs. Flow

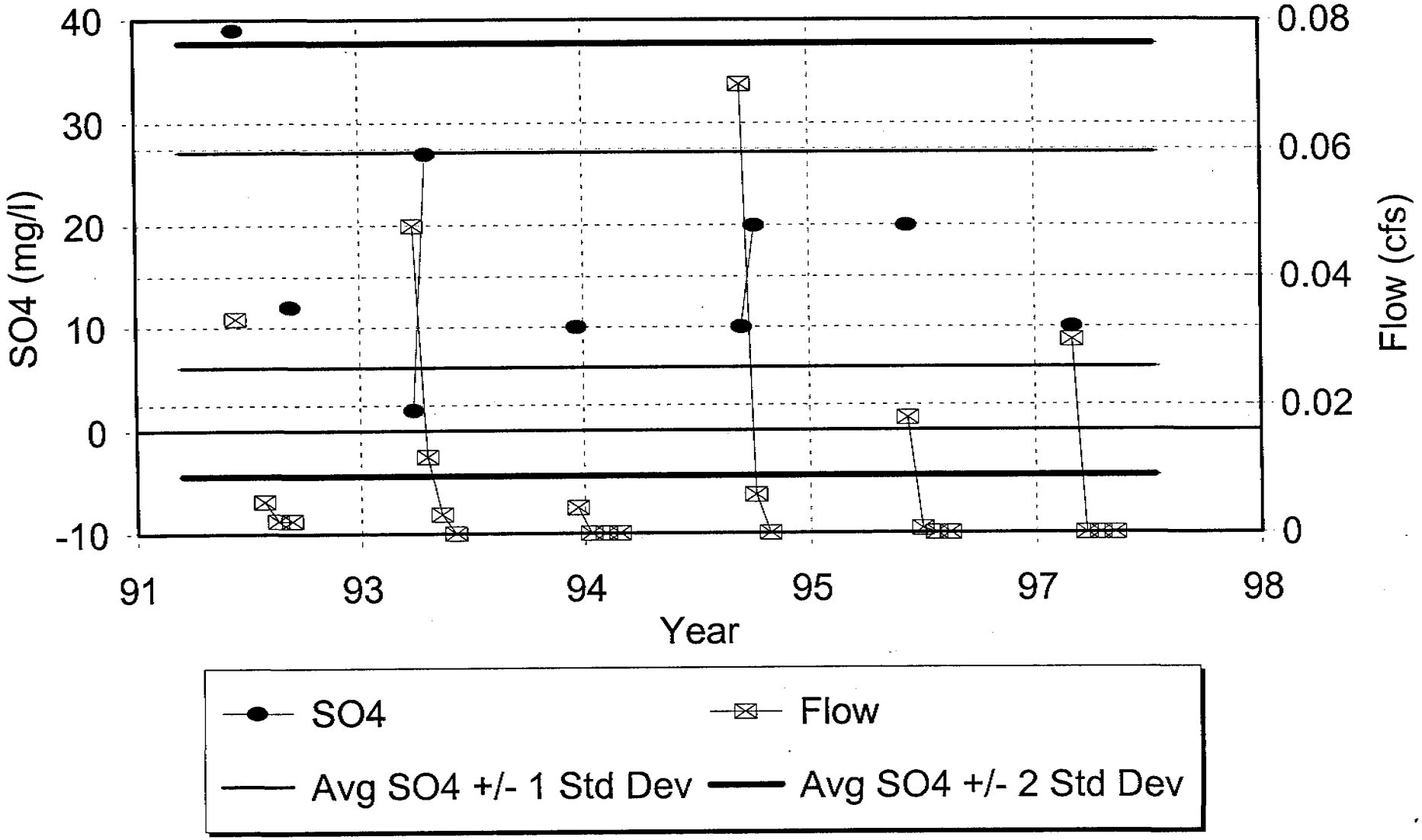



Station 450
Cl vs. Flow
Cl (mg/l)
4
3.5
3
2.5
2
1.5
1
0.5
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
93
94
95
97
98
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 450
HCO3 vs. Flow
HCO3 (mg/l)
360
340
320
300
280
260
240
220
Flow (cfs)
0.08
0.06
0.04
0.02
0
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

Station 450

SO4 vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 452 | Property: Star Point | Location: 2000' N 2250' W of SE com. Sec 23, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9830

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86																							
Jun-86																							
Jul-86																							
Aug-86																							
Sep-86	09/30/86	0.02				225																	
Oct-86																							
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87	05/23/87	0.04																					
Jun-87																							
Jul-87	07/16/87	0.03																					
Aug-87																							
Sep-87																							
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88																							
Jul-88																							
Aug-88																							
Sep-88																							
Oct-88																							
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Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89																							
Jul-89																							
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Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90																							
Jul-90																							
Aug-90																							
Sep-90																							
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91																							
Jul-91																							
Aug-91																							
Sep-91	09/18/91	0.01	8	450	5	250			228	266	0	1	35	60	19 <	1	2		0.05	0.07	0.02		
Oct-91																							
Nov-91																							
Dec-91																							

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 452 | Property: Star Point | Location: 2000' N 2250' W of SE corn. Sec 23, T15S, R7E | Station Type. | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9830

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/19/92	0.0334	8	466	4.8	242			237	264	0	1	6	62	20	1	2	<	0.02 <	0.02		
Jun-92																						
Jul-92	07/15/92	0.027	8.2	448	4.7																	
Aug-92	08/26/92	0.022	7.9	433	5.1																	
Sep-92	09/21/92	0.008	6.5	429	5.2	232			235	220	7	21	16	61	20	1	2	<	0.02	0.13 <	0.01	
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/22/93	0.079	6.3	421	4.4	208			235	261	0	1	2	61	20 <	1	2	<	0.02	0.02 <	0.01	
Jul-93	07/27/93	0.013	6.4	415	4.8	232			239	239	0	2	16	61	21 <	1	3	<	0.02 <	0.02 <	0.01	
Aug-93	08/17/93	0.021	6.4	425	4.8																	
Sep-93	09/27/93	0.013	6.3	417	4.8	220			227	273	0	2	8	58	20 <	1	2	<	0.02 <	0.02 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/08/94	0.026	7.7	506	3.3	224			202	262	0	2	2	53	17 <	1	2	<	0.02	0.04 <	0.01	
Jul-94	07/19/94	< 0.01	8	429	14.6	240			236	251	10	2	21	60	21	1	3	<	0.02	0.67 <	0.01	
Aug-94	08/31/94	0.007	8.3	386	11.1																	RAIN IN A.M. = ~.10", LO
Sep-94	09/21/94	0.004	8.2	495	8.8	252			213	262	0	2	14	54	19 <	1	2		0.02	0.13 <	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.112	7.5	499	4.8	240			253	230 <	2	2 <	10	66.5	21.2	0.7	2.2	5.3 <	0.01 <	0.01 <	0.005	
Jul-95	07/27/95	0.045	7.6	459	5	260			246	225 <	2	2	20	62.7	21.7	0.6	2.3	0.3	0.05 <	0.01 <	0.005	
Aug-95	08/23/95	0.03	7.57	406	6																	
Sep-95	09/27/95	0.02	7.7	542	5	250			254	214 <	2	2	21	62.7	23.6	0.7	2.5	4.2 <	0.01 <	0.01 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/11/96	0.047	8.6	445	4	236			246	229	2 <	1	10	63.8	21.1	0.6	2.1	2.1	0.01 <	0.01 <	0.005	
Jul-96	07/23/96	0.029	8.44	469	6																	
Aug-96	08/19/96	0.022	8.61	399	5																	
Sep-96	09/30/96	0.009	7.7	422	5	231			247	220	2 <	2	10 <	61.9	22.5	0.7	2.4	4.1	0.01 <	0.02	0.005	
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/18/97	0.14	7.6	587	5	245			245	261	2 <	1	10 <	63.6	20.9	0.6	2.1	-2.4	0.01 <	0.01 <	0.005	
Jul-97	07/30/97	0.045	7.35	438	7																	
Aug-97	08/13/97	0.033	8.06	414	4.5																	
Sep-97	09/16/97	0.017	7.96	433	6	270			250	210	10 <	1.5	17	58	25	1.1	2.7	5.2	0.01 <	0.12	0.005	
Oct-97																						
Nov-97																						
Dec-97																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

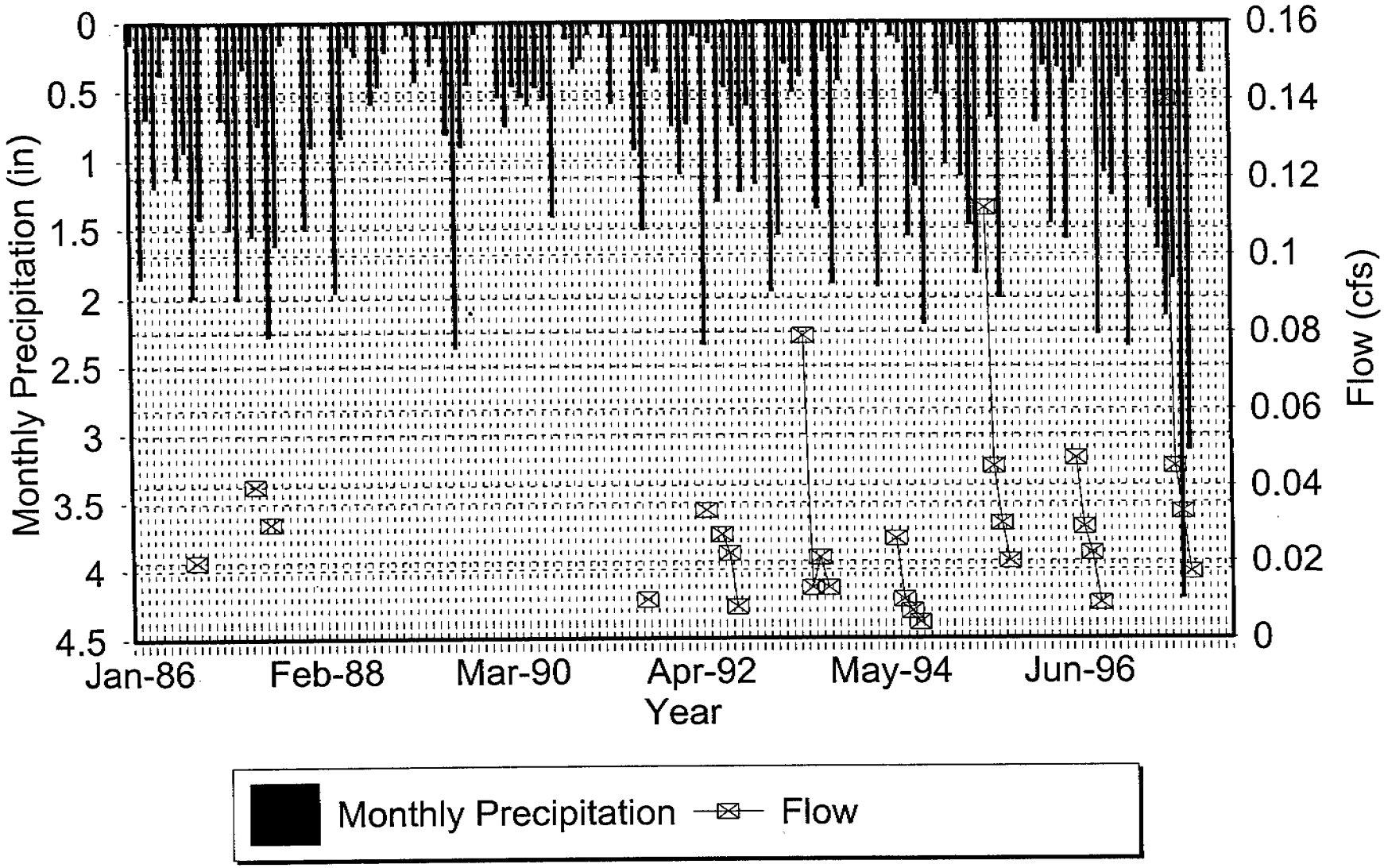
Station: 452 | Property: Star Point | Location: 2000' N 2250' W of SE corn. Sec 23, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9830

Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
Count		28	25	25	25	17	0	0	16	16	16	16	16	16	16	16	16	7	16	16	15	
Minimum		< 0.004	6.3	386	3.3	208	ERR	ERR	202	210	< 0	< 1	< 2	< 53	17	< 0.6	2	-2.4	< 0.01	< 0.01	< 0.005	
Maximum		< 0.14	8.61	567	14.6	270	ERR	ERR	254	281	< 10	< 21	< 35	< 66.5	25	< 1.1	3	5.3	< 0.05	< 0.67	< 0.02	
Average		< 0.0326	7.6356	449.32	5.76	238.65	ERR	ERR	237.06	244.19	< 2.4375	< 2.8438	< 13.625	< 60.575	20.813	< 0.875	2.2668	2.6857	< 0.02	< 0.0819	< 0.0083	
Standard Deviation		< 0.0305	0.7039	45.435	2.3712	14.895	ERR	ERR	13.773	22.492	< 3.3348	< 4.7094	< 8.069	< 3.3778	1.82	< 0.1765	0.3441	2.6551	< 0.0122	< 0.1579	< 0.0039	
Avg. -1 Std. Dev.		< 0.0021	6.9317	403.89	3.4088	223.75	ERR	ERR	223.29	221.7	< -0.897	< -1.866	< 5.556	< 57.197	18.993	< 0.6965	1.9247	0.0306	< 0.0078	< -0.076	< 0.0044	
Avg. +1 Std. Dev.		< 0.0631	8.3395	494.75	8.1512	253.54	ERR	ERR	250.84	266.68	< 5.7723	< 7.5532	< 21.694	< 63.953	22.632	< 1.0535	2.6128	5.3409	< 0.0322	< 0.2398	< 0.0123	
Avg. -2 Std. Dev.		< -0.028	6.2277	358.45	1.0377	208.86	ERR	ERR	209.52	199.2	< -4.232	< -6.575	< -2.513	< 53.819	17.173	< 0.5179	1.5806	-2.625	< -0.004	< -0.234	< 0.0004	
Avg. +2 Std. Dev.		< 0.0935	9.0435	540.19	10.522	268.44	ERR	ERR	264.61	289.17	< 9.1072	< 12.263	< 29.763	< 67.331	24.452	< 1.2321	2.9569	7.996	< 0.0445	< 0.3976	< 0.0162	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

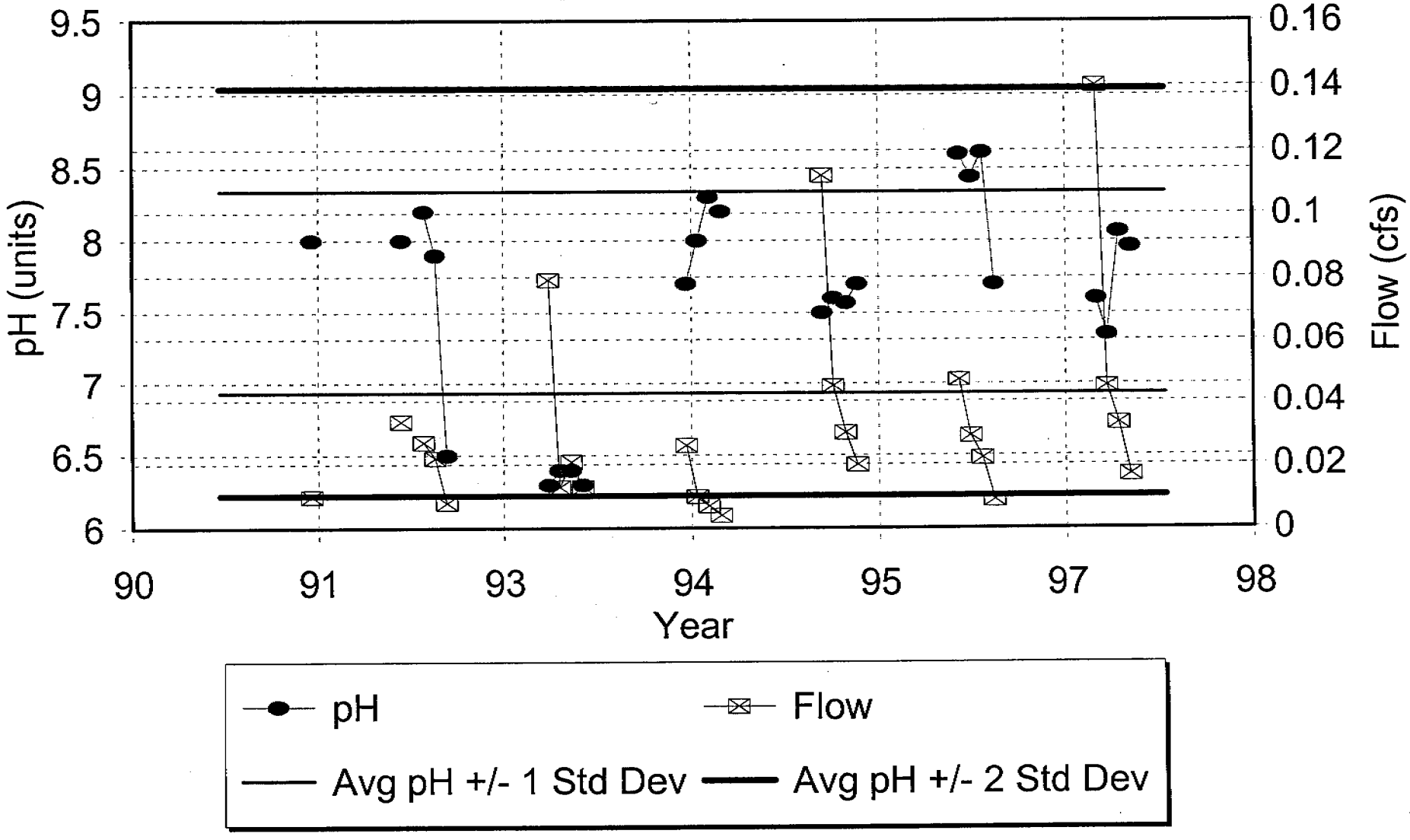
Station 452

Monthly Precipitation vs. Flow



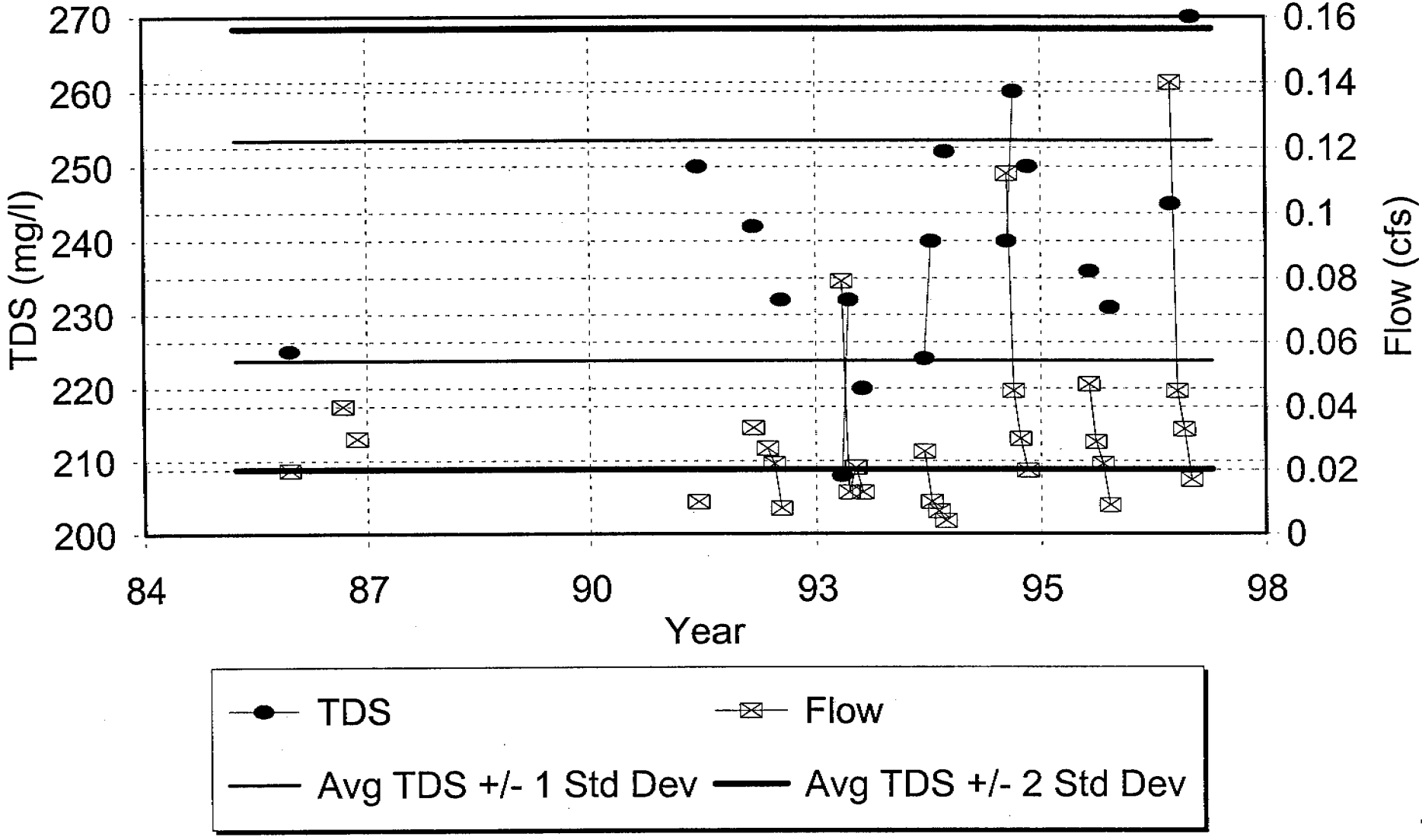
Station 452

pH vs. Flow



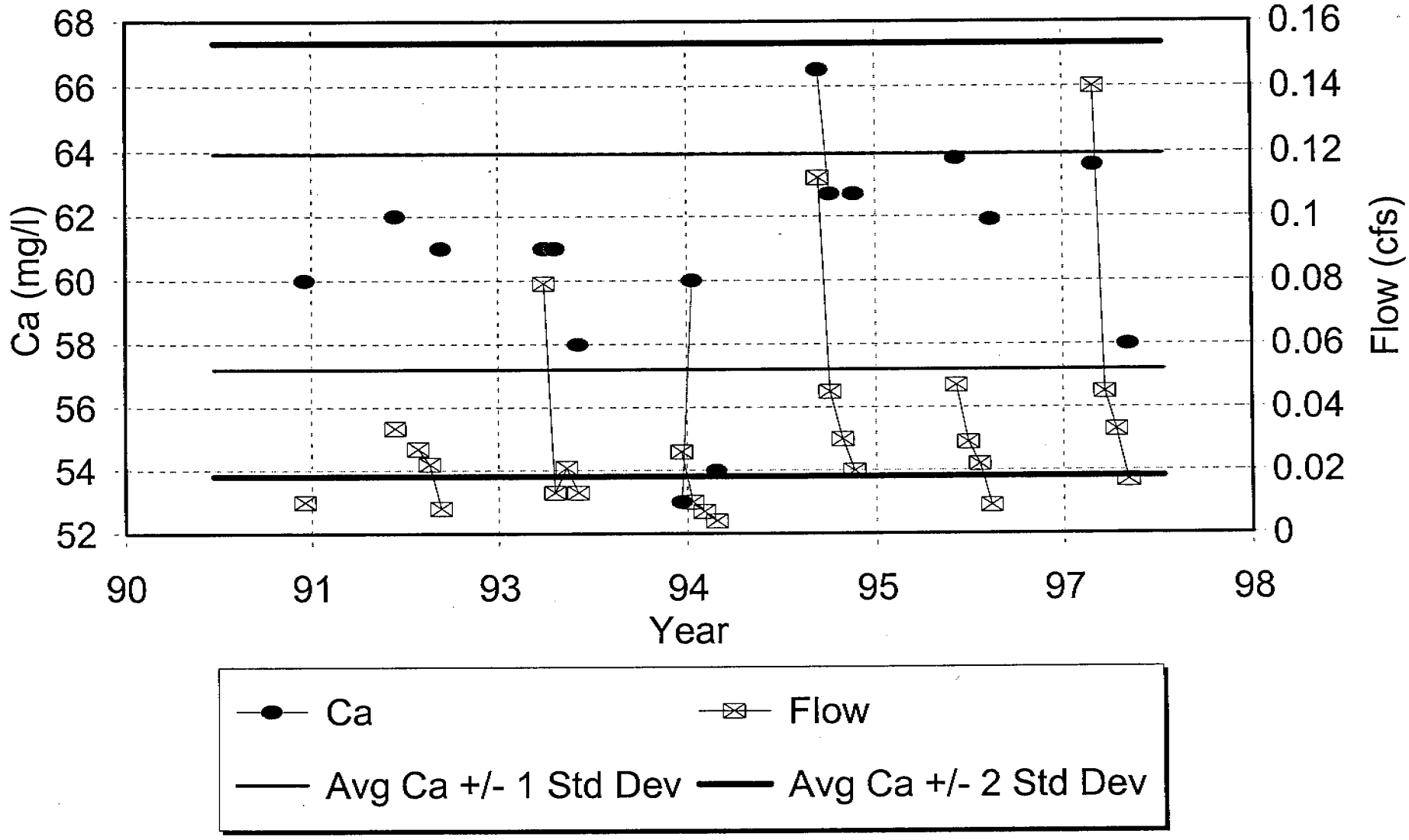
Station 452

TDS vs. Flow



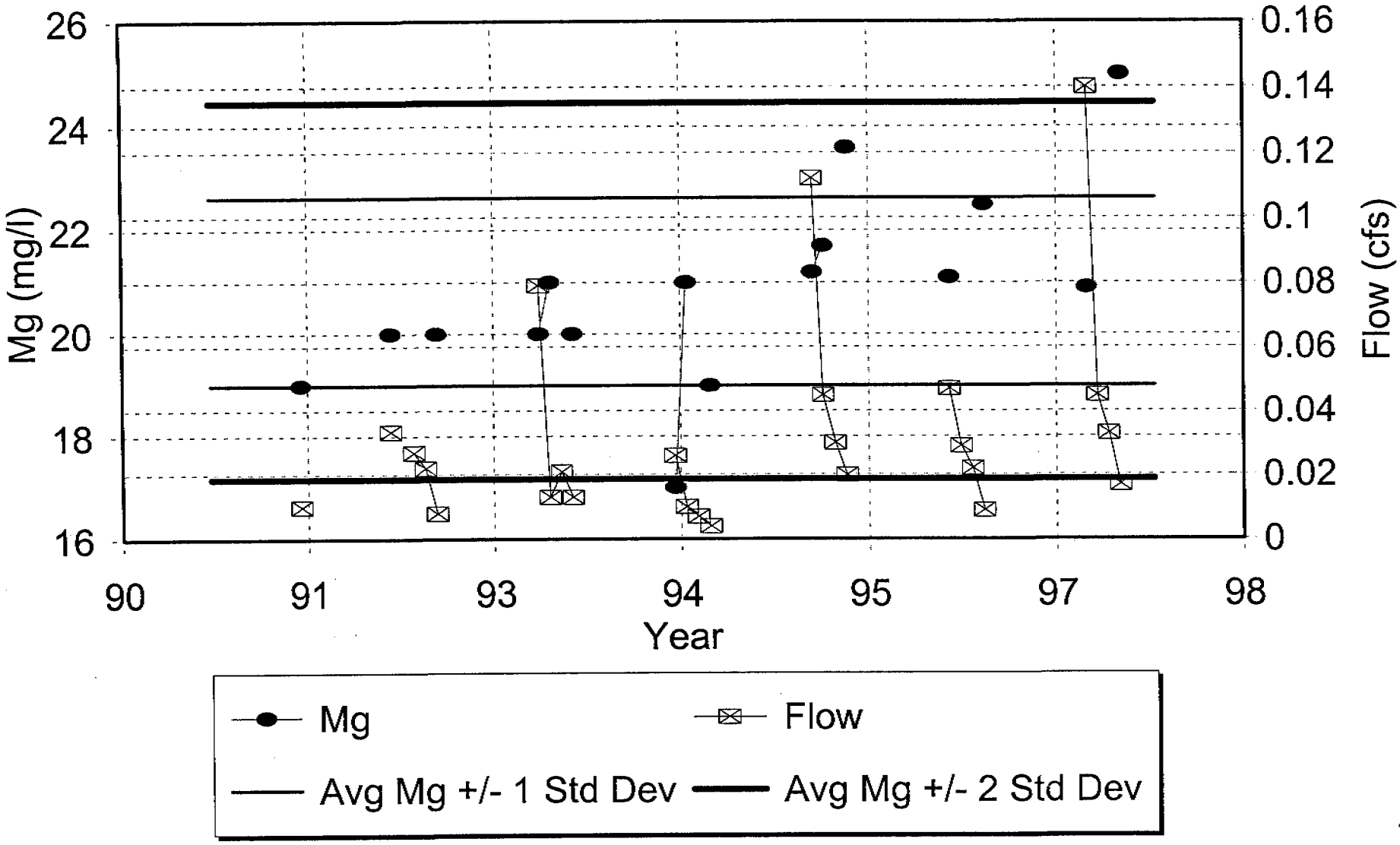
Station 452

Ca vs. Flow



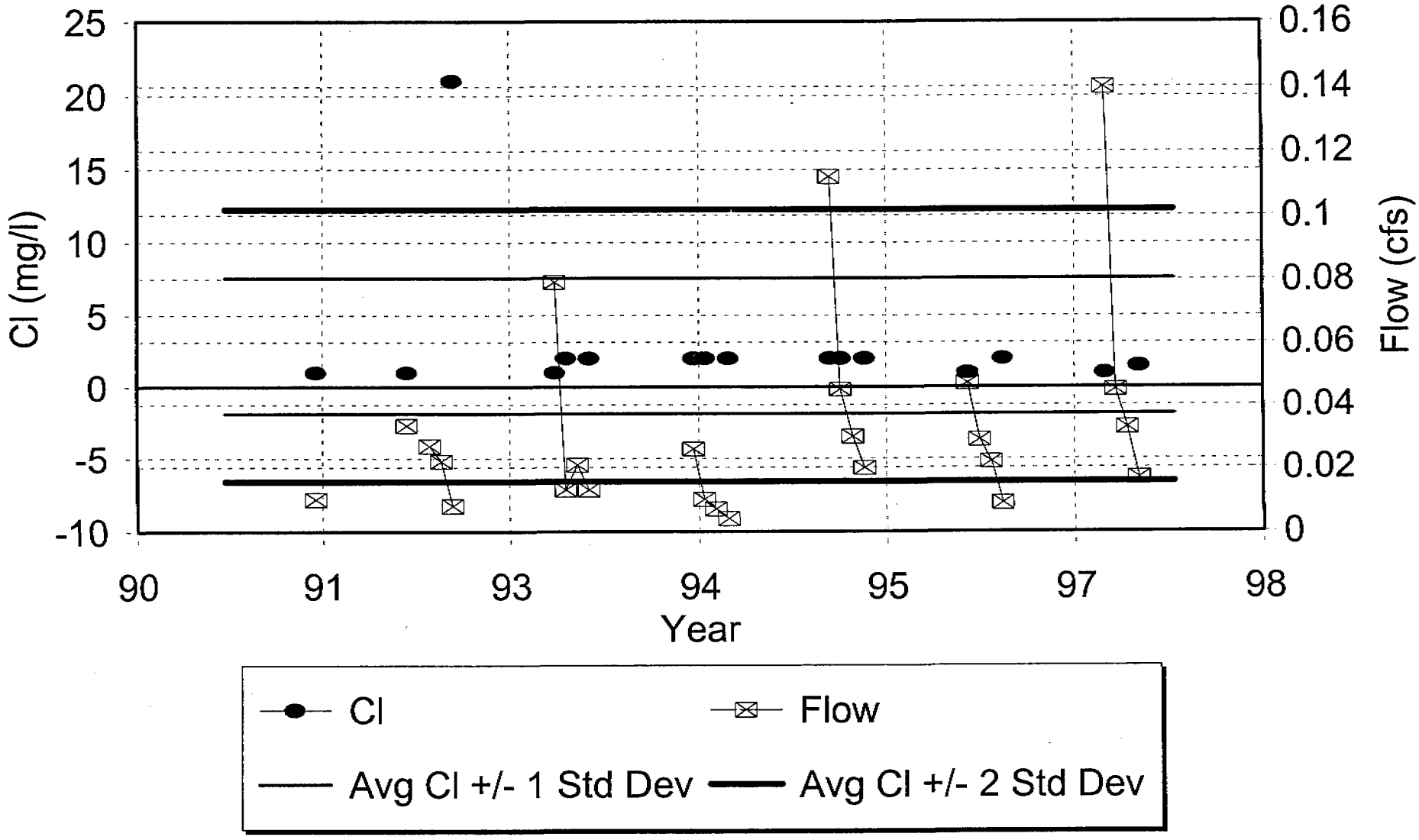
Station 452

Mg vs. Flow



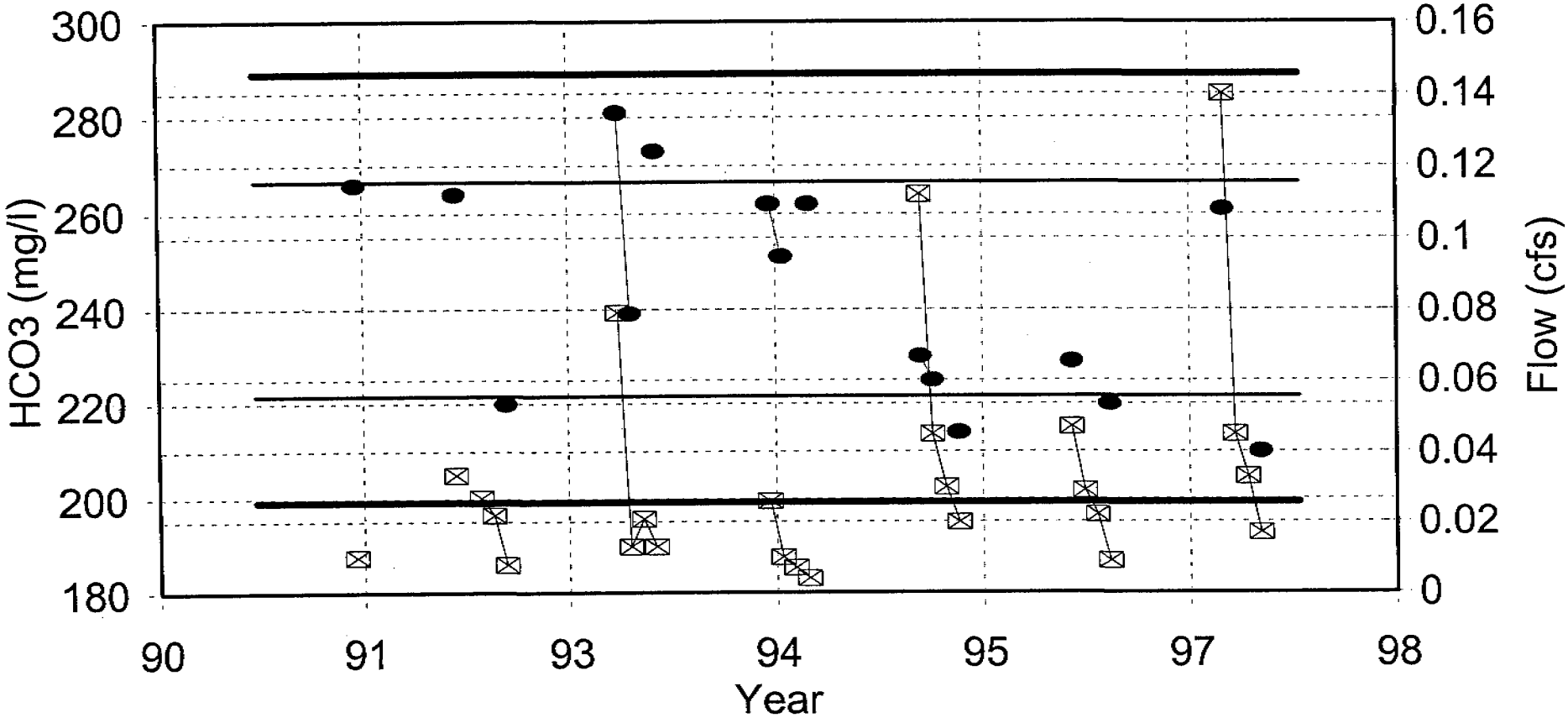
Station 452

Cl vs. Flow



Station 452

HCO3 vs. Flow

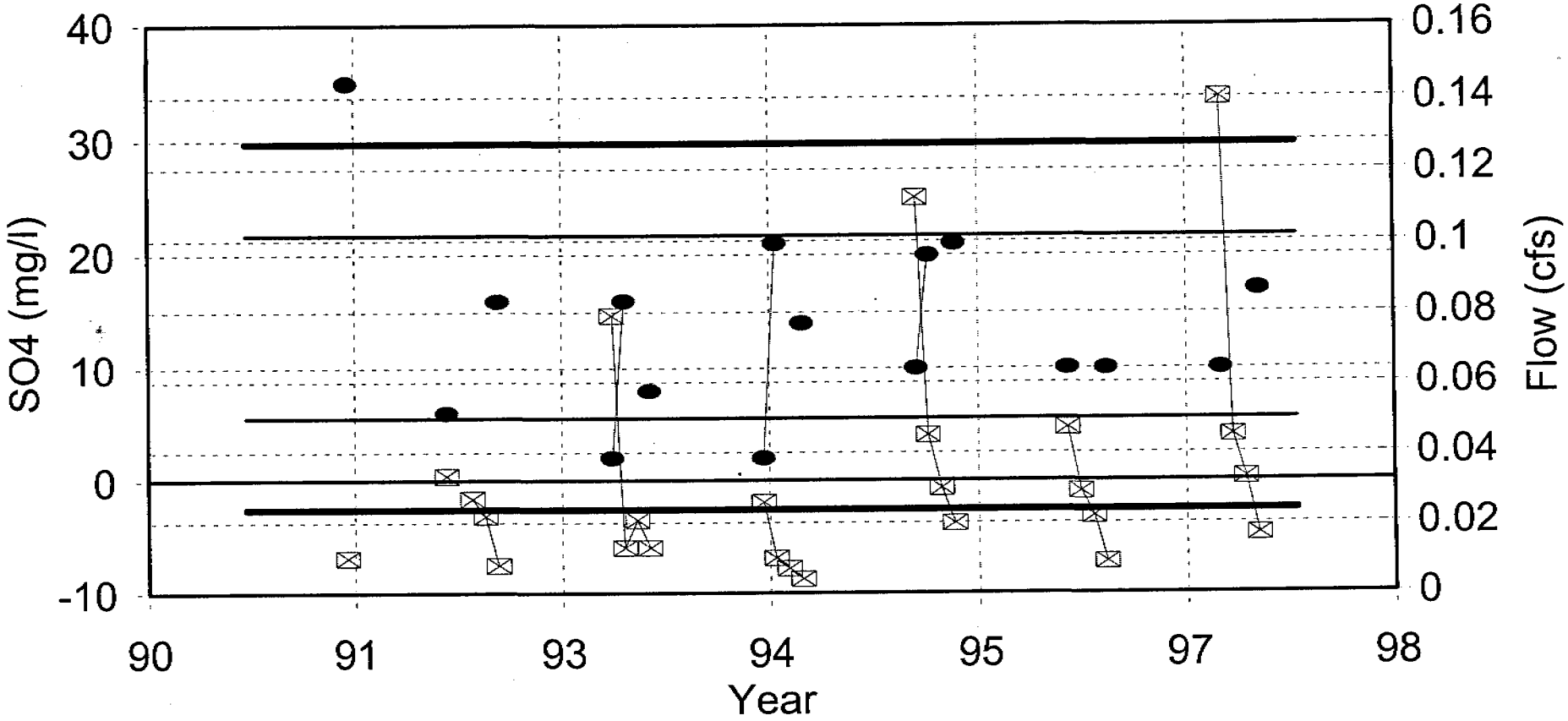


HCO3 — Flow

Avg HCO3 +/- 1 Std Dev — Avg HCO3 +/- 2 Std Dev

Station 452

SO4 vs. Flow



SO4 — Flow

Avg SO4 +/- 1 Std Dev — Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 518 | Property: Star Point | Location: 2375' S 125' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9700

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87	05/19/87	0.03				280																	
Jun-87																							
Jul-87																							
Aug-87	08/12/87	0				278																	
Sep-87	09/22/87	0				238																	
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/02/88	0.09																					
Jul-88	07/16/88	0.01				270																	
Aug-88	08/19/88	0																					
Sep-88	09/05/88	0				298																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/06/89	0.01				230																	
Jul-89	07/11/89	0				256																	
Aug-89	08/22/89	0																					
Sep-89	09/15/89	0				250																	
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90	05/30/90	0.03				272																	
Jun-90																							
Jul-90	07/02/90	0.01				246																	
Aug-90	08/30/90	0																					
Sep-90																							
Oct-90	10/03/90	0				280																	
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/11/91	0.05	7.2	430	5	218			230	264	10	2	4	69	14 <	1	2		< 0.02	< 0.02	< 0.01		
Jul-91	07/15/91	0.01	7.1	460	12	276			272	317	5	2	2	84	15 <	1	2		< 0.02	0.46	< 0.01		
Aug-91																							
Sep-91	06/18/91	0	7.8	490	8	280			327	400	0	1	4	98	20 <	1	2		0.71	1.01	0.04		
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/19/92	0.0334	7.7	463	5.1	270			268	307	0	1	27	81	16	1	2		< 0.02	0.04 <	0.01		
Jun-92																							
Jul-92	07/15/92	0.007	7.5	477	6.8	306			243	300	0	1	4	79	11 <	1	1		< 0.02	0.44			
Aug-92	08/25/92	0.002	6.8	481	8.5																		
Sep-92	09/21/92	0.002	6.3	473	8.8	274			220	300	0	1	4	60	17 <	1	13		< 0.02	3.82			
Oct-92																							
Nov-92																							
Dec-92																							

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 518 | Property: Star Point | Location: 2375' S 125' W of NE com. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9700

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/24/93	0.045	7.4	525	5.5	218			257	298	0	2	2	78	15 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0.007	6.3	439	7.4	250			240	278	5	1	2	73	14 <	1	2	<	0.02	0.04 <	0.01	
Aug-93	08/17/93	0.003	6.1	418	8																	
Sep-93	09/28/93	0.002	6.3	435	8.9	200			216	259	0	2	6	65	13 <	1	2	<	0.02	0.08 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/20/94	0.01	7.5	520	4.8	276			279	327	0	1	2	82	18 <	1	2	<	0.02	0.12 <	0.01	
Jul-94	07/19/94	< 0.01	7.9	513	12.8	244			244	278	10	2	2	73	15	1	2		0.02	0.1 <	0.01	
Aug-94	08/31/94	0.002	8	400	11.6																	RAIN IN A.M. = ~.10". LO
Sep-94	09/21/94	0.002	7.9	541	11.6	224			204	261	0	1	2	62	12 <	1	2	<	0.02	1.17	0.02	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.1711	7.2	467	4.8	230			241	212 <	2	2	30	73.2	14	0.6	1.6	-0.3 <	0.01	0.01 <	0.005	
Jul-95	07/27/95	0.022	7.2	511	6	270			262	245 <	2	1 <	10	78.9	15.7	0.6	1.7	3.9	0.02	0.04 <	0.005	
Aug-95	08/23/95	0.007	6.42	457	8																	
Sep-95	09/26/95	0.004	7.7	294	7.22	270			274	247 <	2	4	10	83.6	15.7	0.7	1.7	2.8 <	0.01	0.07 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/11/96	0.024	7.2	483	6	248			259	254	2 <	1 <	10 <	78.2	15.5	0.5	1.7	1.8	0.01 <	0.01	0.005	
Jul-96	07/23/96	0.004	8.13	447	10	271			294	269	2 <	1	10 <	88.7	17.7	0.7	1.8	5.1	0.07	0.78	0.015	
Aug-96	08/19/96	0.003	7.74	435	10																	
Sep-96	09/30/96	0.0009	7.9	506	10	268			298	246	2 <	1 <	10 <	90	17.8	0.8	2	8.4	0.04	0.22	0.006	
Oct-96																						
Nov-97																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.045	8.3	459	8	250			265	251	2 <	1	10 <	80.5	15.5	0.5	1.7	3.2	0.01 <	0.11	0.005	
Jul-97	07/30/97	0.007	7.85	478	9	250			250	230	10 <	0.5 <	5 <	76	15	0.9	1.8	5.4	0.01 <	0.01	0.005	
Aug-97	08/13/97	0.006	7.78	519	9																	
Sep-97	09/16/97	0.004	8.27	533	13	320			250	270	10 <	0.5 <	5 <	64	21	1.2	2.3	-3.3	0.01 <	0.54	0.014	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		42	27	27	27	32	0	0	21	21	21	21	21	21	21	21	21	9	21	21	19	
Minimum		< 0	6.1	294	4.8	200	ERR	ERR	204	212 <	0 <	0.5 <	2 <	60	11 <	0.5	1	-3.3 <	0.01 <	0.01 <	0.005	
Maximum		< 0.1711	8.3	541	13	320	ERR	ERR	327	400 <	10 <	4 <	30 <	98	21 <	1.2	13	8.4 <	0.71 <	3.82 <	0.04	
Average		< 0.0158	7.3885	469.41	8.3637	259.72	ERR	ERR	256.81	277.76 <	3.0476 <	1.381 <	7.6667 <	77.005	15.614 <	0.681	2.3952	3 <	0.0533 <	0.4338 <	0.0108	
Standard Deviation		< 0.0302	0.6359	49.908	2.4086	26.124	ERR	ERR	28.248	39.499 <	3.6707 <	0.77 <	7.4599 <	9.3635	2.3471 <	0.1942	2.3846	3.2014 <	0.1474 <	0.8291 <	0.0079	
Avg. -1 Std. Dev.		< -0.014	6.7526	419.5	5.9551	233.59	ERR	ERR	228.56	238.26 <	-0.623 <	0.6109 <	0.2067 <	67.641	13.267 <	0.6867	0.0107	-0.201 <	-0.094 <	-0.395 <	0.0029	
Avg. +1 Std. Dev.		< 0.046	8.0245	519.32	10.772	285.84	ERR	ERR	285.06	317.26 <	6.7183 <	2.151 <	15.127 <	86.368	17.961 <	1.0752	4.7798	6.2014 <	0.2007 <	1.2629 <	0.0187	
Avg. -2 Std. Dev.		[illegible] -0.045	6.1166	369.59	3.5465	207.47	ERR	ERR	200.31	198.76 <	-4.294 <	-0.159 <	-7.253 <	58.278	10.92 <	0.4925	-2.374	-3.403 <	-0.241 <	-1.224 <	-0.005	
Avg. +2 Std. Dev.		[illegible] 0762	8.6604	569.22	13.181	311.97	ERR	ERR	313.31	356.76 <	10.389 <	[illegible].921 <	22.587 <	95.732	20.308 <	1.2694	7.1644	9.4028 <	0.3481 <	2.0921 <	0.0267	

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

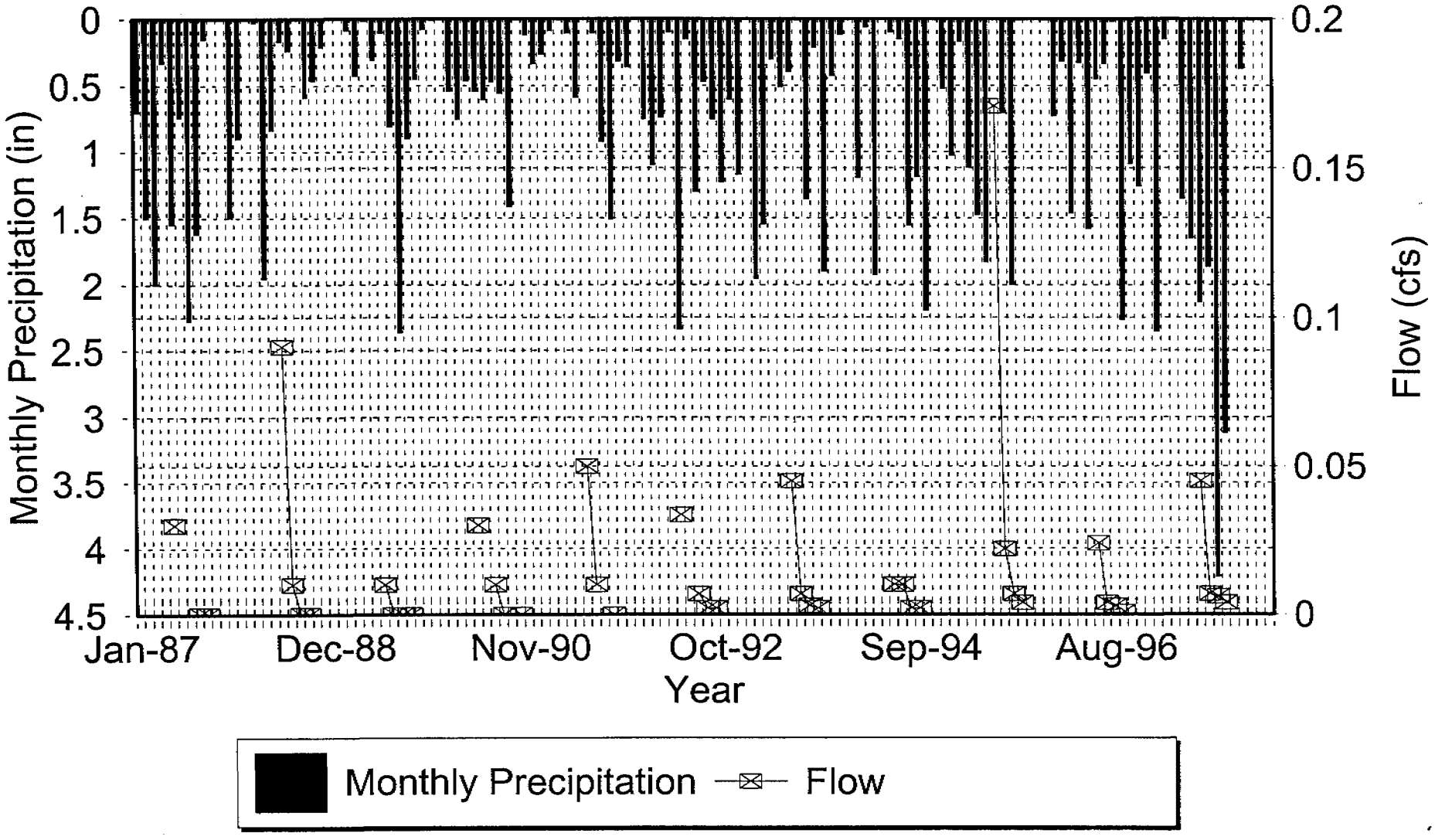
Station: 518 Property: Star Point Location: 2375' S 125' W of NE corn. Sec 14, T15S, R7E Station Type: Spring Sampling Frequency: Quarterly Formation: North Horn Elevation: 9700

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

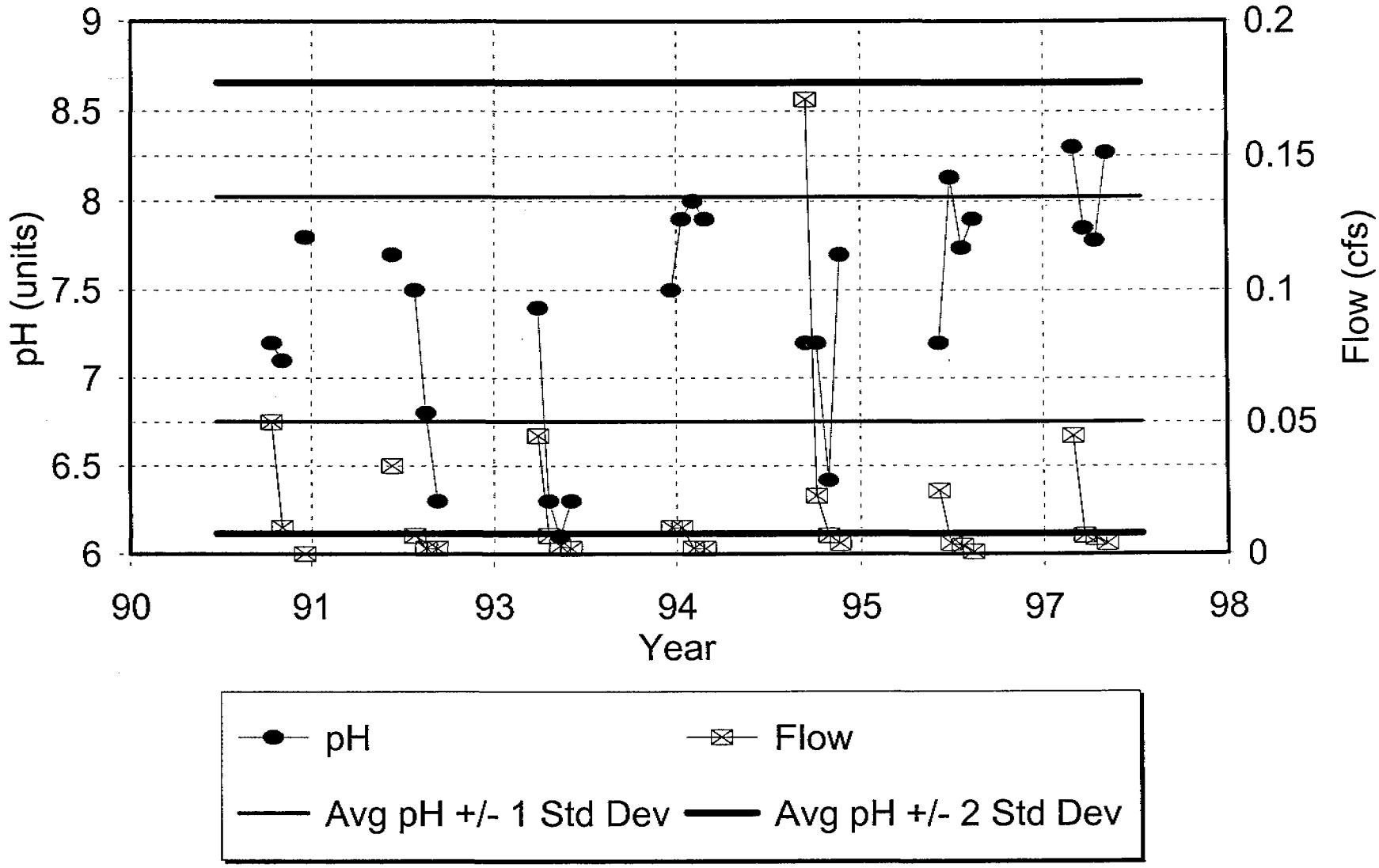
Station 518

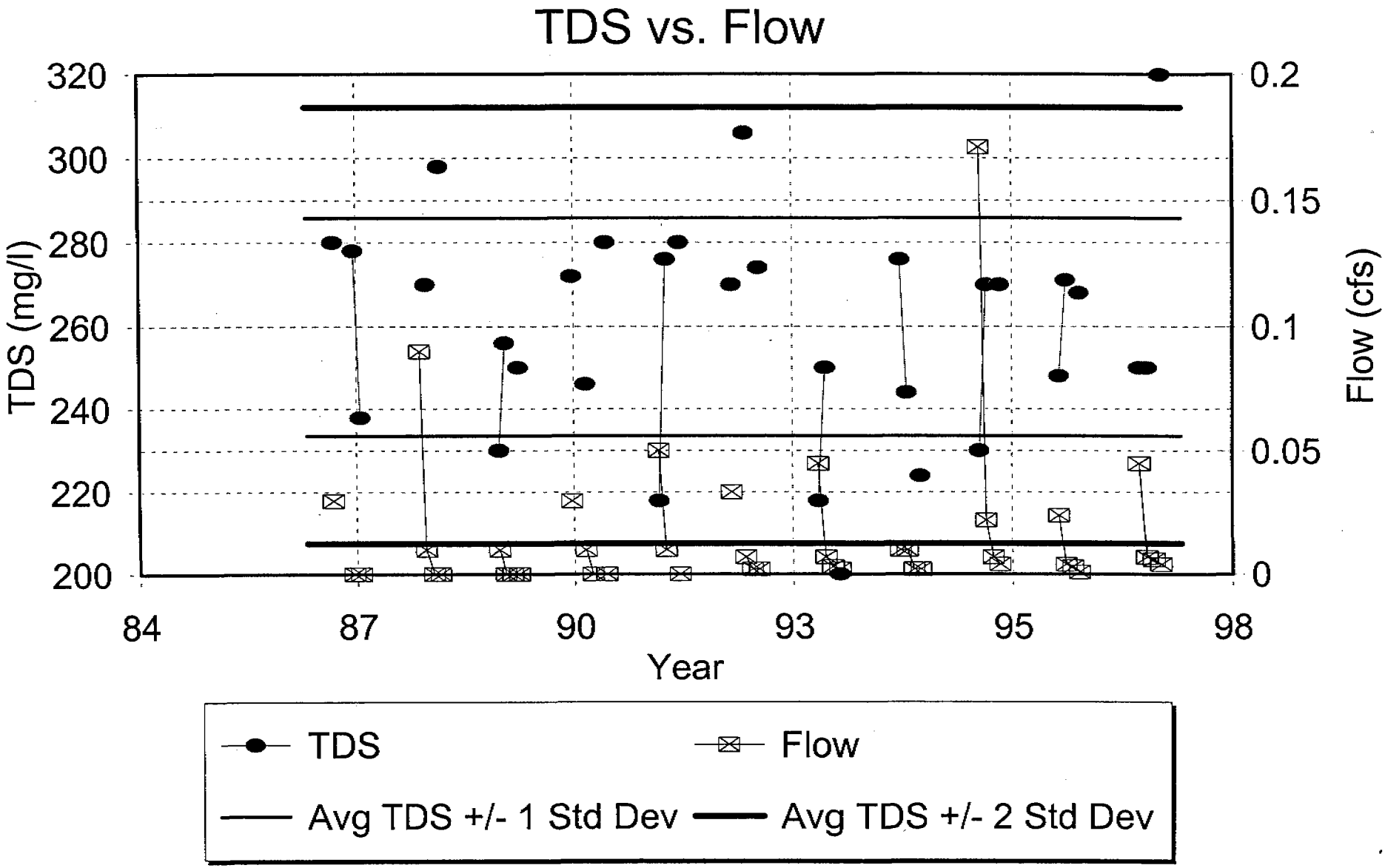
Monthly Precipitation vs. Flow



Station 518

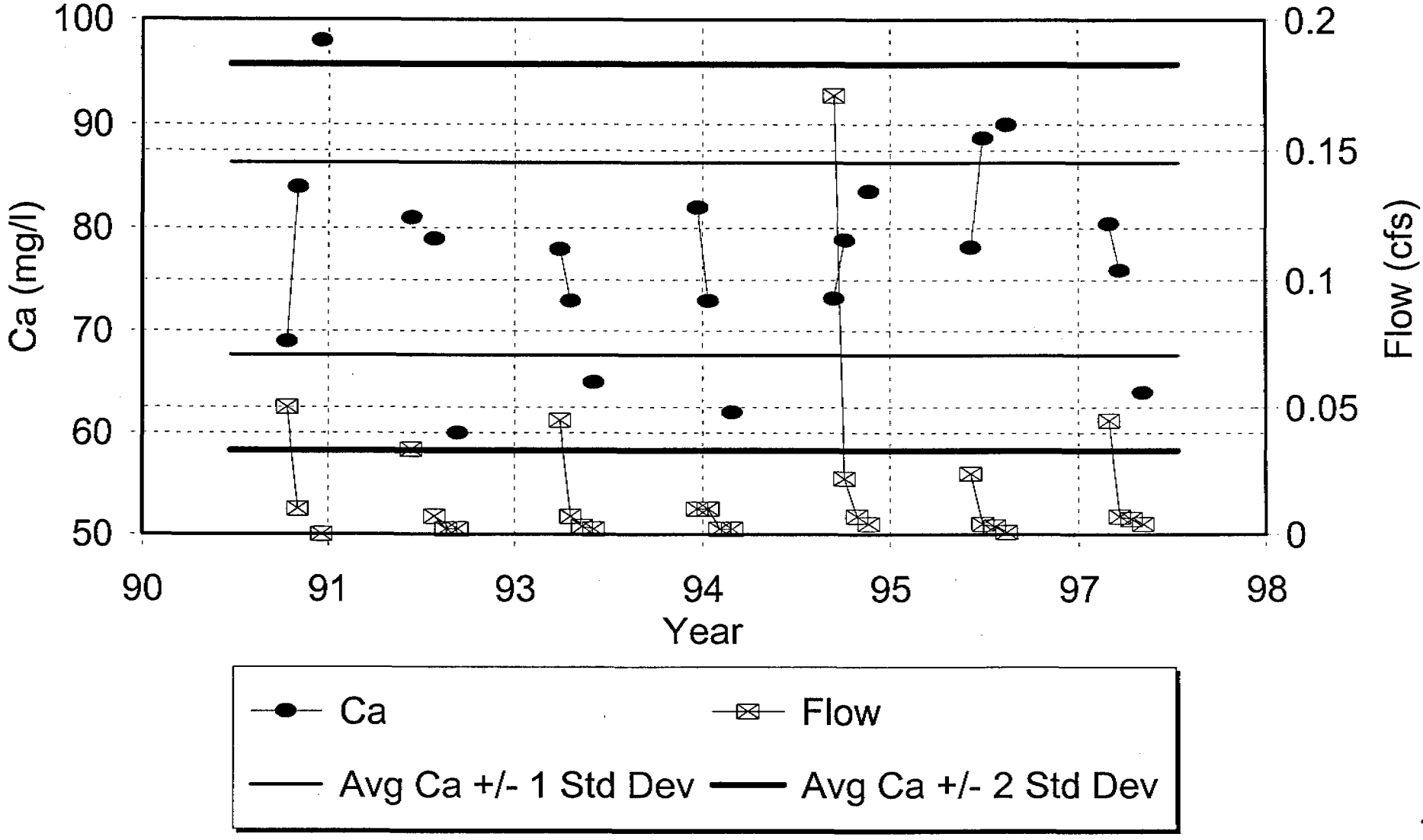
pH vs. Flow

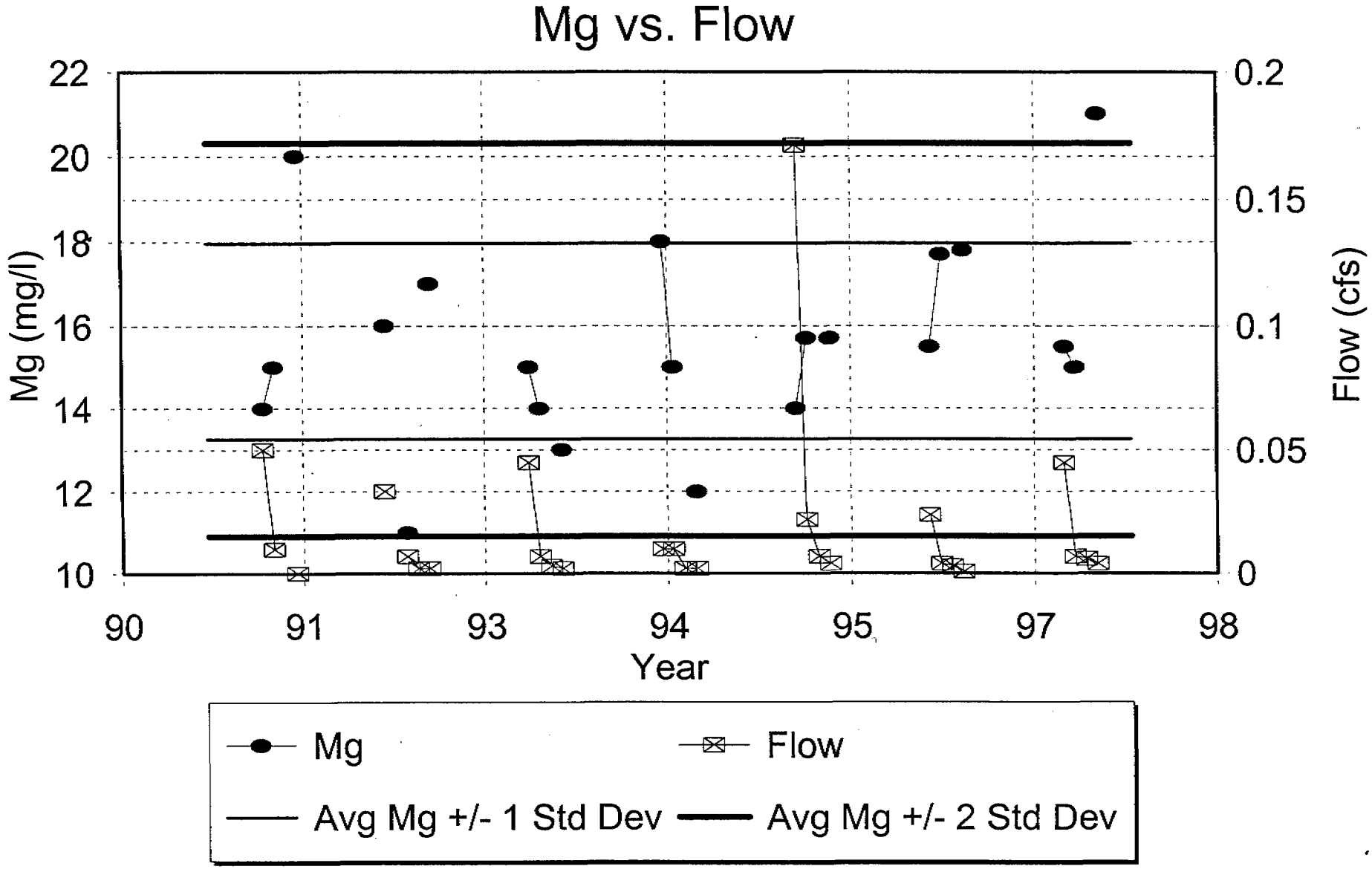



Station 518
TDS vs. Flow
320
300
280
260
240
220
200
TDS (mg/l)
0.2
0.15
0.1
0.05
0
Flow (cfs)
84
87
90
93
95
98
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

Station 518

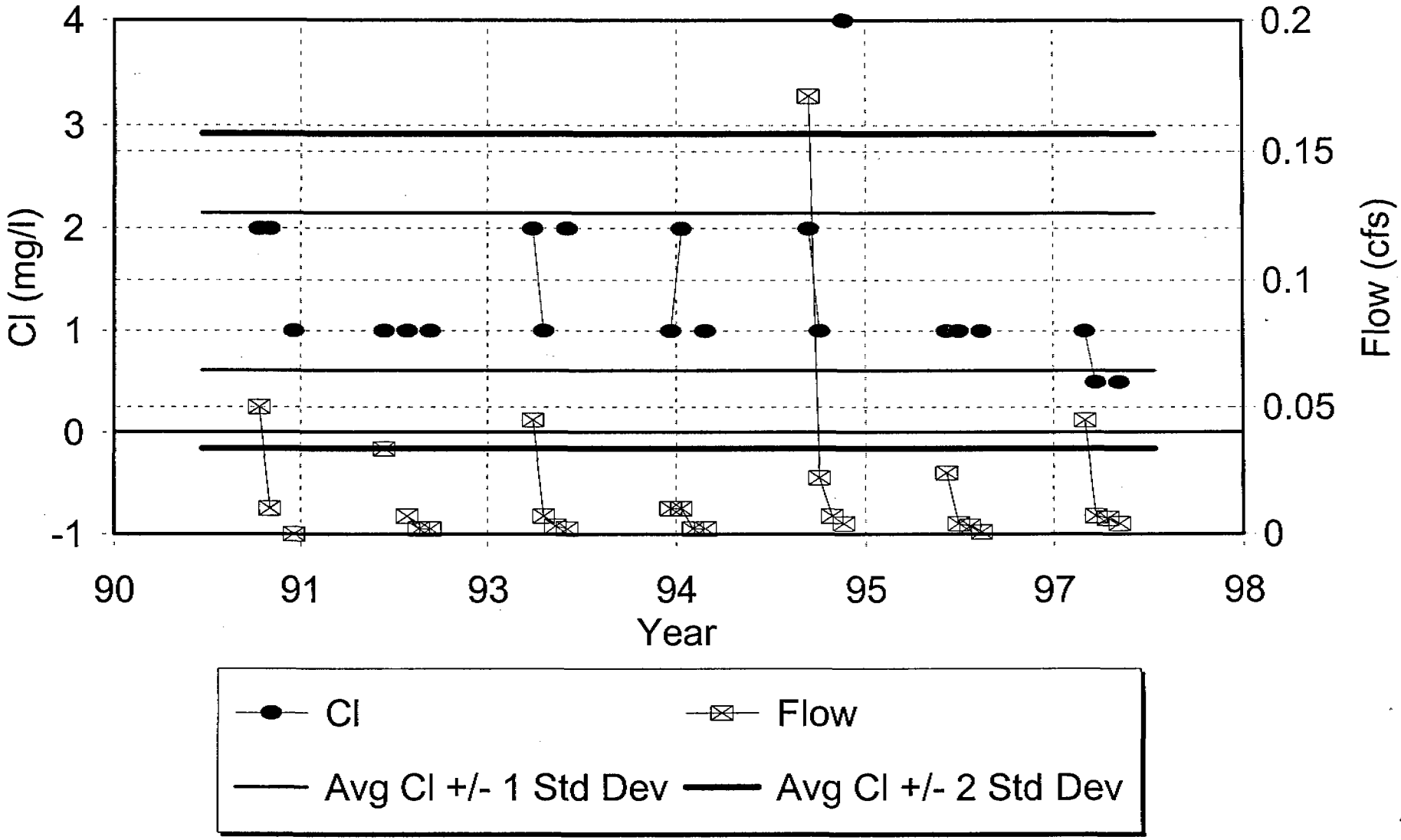
Ca vs. Flow




Station 518
Mg vs. Flow
Mg (mg/l)
22
20
18
16
14
12
10
0.2
0.15
0.1
0.05
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

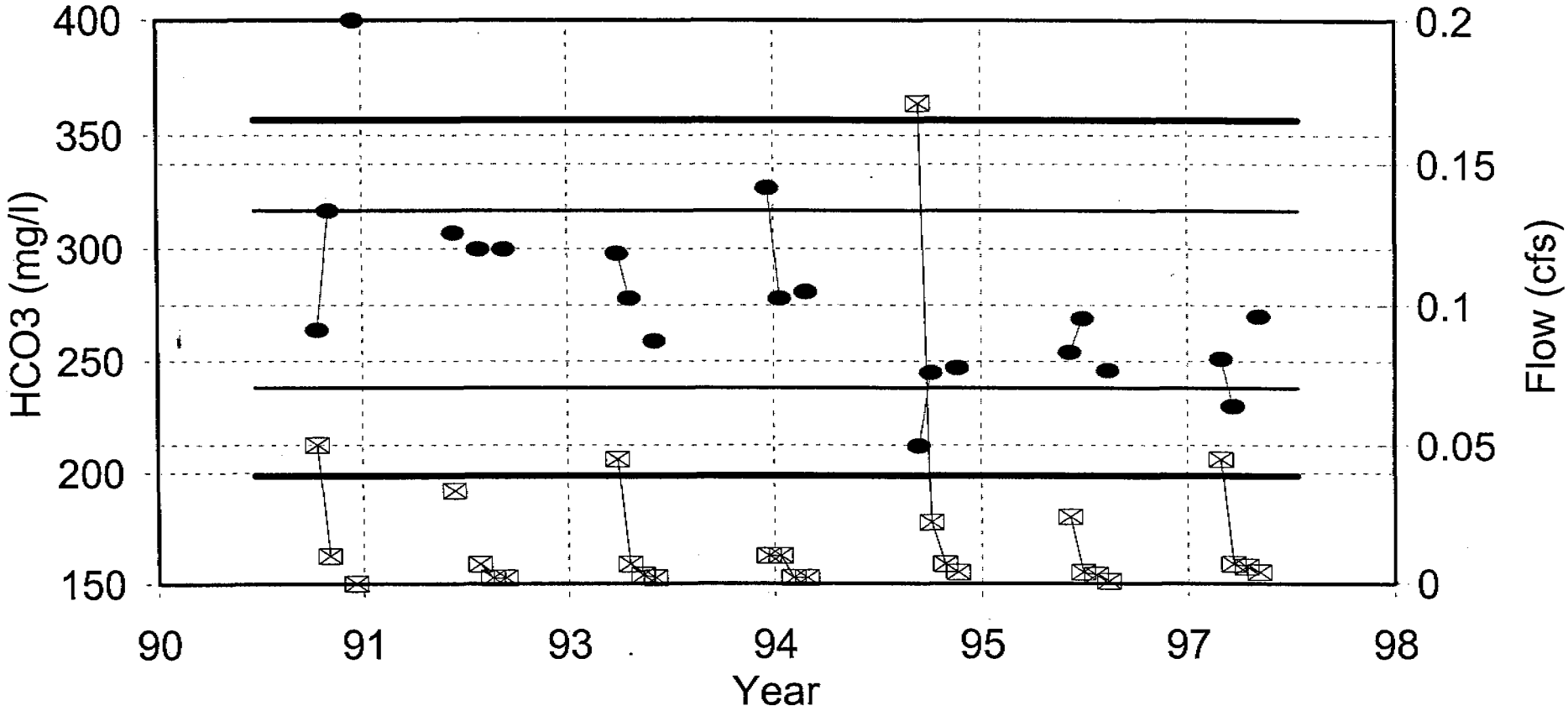
Station 518

Cl vs. Flow



Station 518

HCO3 vs. Flow

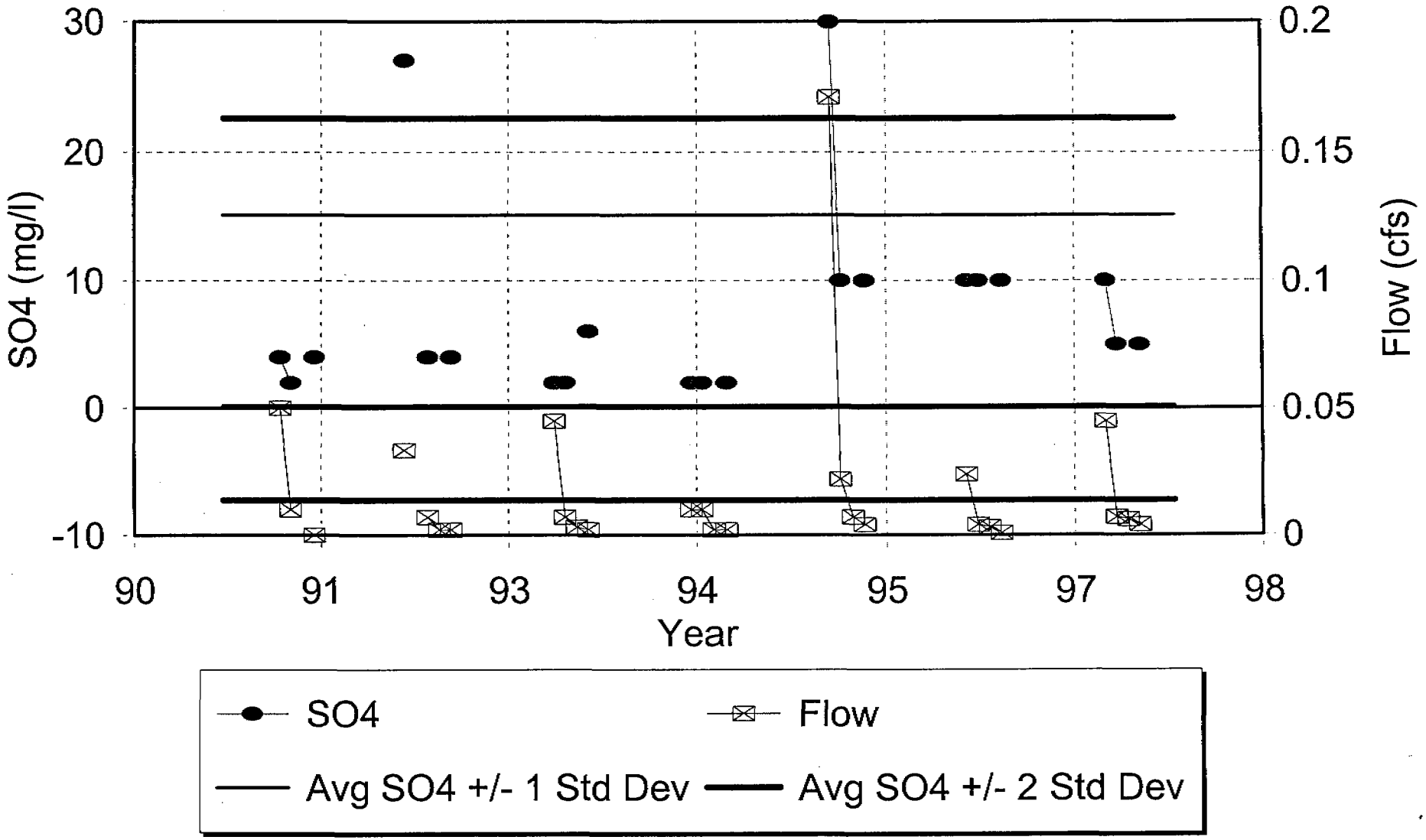


HCO3 — Flow

Avg HCO3 +/- 1 Std Dev — Avg HCO3 +/- 2 Std Dev

Station 518

SO4 vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 748 | Property: Star Point | Location: 2500' S 1300' W of NE com. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9805

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-79																						
Feb-79																						
Mar-79																						
Apr-79																						
May-79																						
Jun-79																						
Jul-79																						
Aug-79																						
Sep-79	09/11/79	0				224																
Oct-79																						
Nov-79																						
Dec-79																						
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80																						
Sep-80	09/30/80	0				210																
Oct-80	10/23/80	0				255																
Nov-80																						
Dec-80																						
Jan-81	01/06/81																					IN-ACCESSIBLE
Feb-81	02/04/81																					IN-ACCESSIBLE - SNOW
Mar-81	03/25/81																					IN-ACCESSIBLE - SNOW
Apr-81	04/28/81																					IN-ACCESSIBLE - SNOW
May-81	05/28/81																					IN-ACCESSIBLE - RAIN A
Jun-81	06/17/81	0.01				210																
Jul-81						200																
Aug-81	08/29/81	0				200																
Sep-81																						
Oct-81	10/07/81	0				226																
Nov-81	11/24/81																					IN-ACCESSIBLE
Dec-81	12/29/81																					IN-ACCESSIBLE
Jan-82																						
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82																						
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	05/24/83																					IN-ACCESSIBLE - SNOW
Apr-83																						
May-83	05/12/83																					IN-ACCESSIBLE - SNOW
Jun-83	06/29/83																					IN-ACCESSIBLE - SNOW
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83	10/04/83	0				199																
Nov-83																						
Dec-83																						
Jan-84	01/06/84																					COVERED W/SNOW - NO
Feb-84																						
Mar-84	03/30/84																					COVERED W/SNOW - NO
Apr-84																						
May-84																						
Jun-84	06/21/84	0.03				202																
Jul-84																						
Aug-84																						
Sep-84																						
Oct-84						237																
Nov-84																						
Dec-84																						

Cyprus Plateau Mining Company - Water Quality Data

Station: 748 | Property: Star Point | Location: 2500' S 1300' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9805

Print Date: February 26, 1998

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cal/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85	02/21/85																					INACCESSIBLE - DEEP S
Mar-85	05/31/85																					INACCESSIBLE - DEEP S
Apr-85																						
May-85																						
Jun-85	06/13/85	0.01				218																
Jul-85																						
Aug-85																						
Sep-85	09/24/85	0				236																
Oct-85																						
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86	06/11/86	0.04				203																
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86	10/10/86	0.01				228																
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87	05/19/87	0.04																				
Jun-87																						
Jul-87	07/19/87	0.01																				
Aug-87	08/12/87	0																				
Sep-87	09/22/87	0				204																
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/02/88	0.04				222																
Jul-88	07/15/88	0.01				228																
Aug-88	08/19/88	0.01																				
Sep-88	09/05/88	0				214																
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/06/89	0.01				214																
Jul-89	07/11/89	0.01				238																
Aug-89	08/22/89	0																				
Sep-89	09/15/89	0				204																
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.01				238																
Jun-90																						
Jul-90	07/02/90	0				206																
Aug-90	08/30/90	0																				
Sep-90																						
Oct-90	10/03/90	0				224																
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 748 | Property: Star Point | Location: 2500' S 1300' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9805

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/11/91	0.03	7.2	380	4	182			201	242	7	2	2	46	21 <	1	1	<	0.02 <	0.02 <	0.01		
Jul-91	07/15/91	0	7.1	430	5	230			222	264	0	2	2	51	23 <	1	2	<	0.02 <	0.02 <	0.1		
Aug-91																							
Sep-91	09/18/91	0	7.7	440	8	218			222	264	0	1	4	51	23 <	1	1		0.05	0.05	0.02		
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/19/92	0.0205	7.7	388	4.2	212			230	249	0	1	31	56	22	1	1	<	0.02 <	0.02			
Jun-92																							
Jul-92	07/15/92	0.005	7.7	415	5.2	208			220	264	0	1	6	55	20 <	1	1	<	0.02	0.36			
Aug-92	08/25/92	0.001																					
Sep-92	09/21/92	0.002	6.3	454	6.8	210			226	217	10	1	29	51	24	1	1	<	0.02	0.42			
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93	06/24/93	0.039	6.6	366	6.9	202			238	276	0	1	2	56	24 <	1	1	<	0.02	0.03	0.01		
Jul-93	07/26/93	0.007	6.4	392	4.9	214			222	264	2	1	16	51	23 <	1	1	<	0.02 <	0.02 <	0.01		
Aug-93	08/17/93	0.005	6.3	400	5.4																		
Sep-93	09/28/93	0.002	6.4	405	6.8	220			208	268	0	1	4	47	22 <	1	1	<	0.02	0.15 <	0.01		
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94	06/20/94	0.01	7.6	467	3.3	216			243	268	0	1	3	56	25 <	1	2	<	0.02 <	0.02 <	0.01		
Jul-94	07/19/94	0.01	7.9	430	10.2	206			217	281	0	2	2	49	23 <	1	1	<	0.02	0.09 <	0.01		
Aug-94	08/31/94	0.006	7.9	353	10.6																		RAIN IN A.M. = ~.10". LO
Sep-94	09/21/94	0.003	8.3	448	9.3	210			242	290	0	1	2	54	26 <	1	1	<	0.02	0.03 <	0.01		
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/22/95		6.7	392	4.8	190			239	214 <	2	1	20	54.6	24.9	0.5	1.3	1.2 <	0.01	0.14 <	0.005	SNOW DRIFT IN SPRING	
Jul-95	07/27/95	0.014	7.2	428	5	230			241	220 <	2	1 <	10	54.8	25.3	6	1.4	5	0.04 <	0.01 <	0.005		
Aug-95	08/23/95	0.008	6.59	395	6																		
Sep-95	09/28/95	0.002	7.1	244	43.6	210			236	218 <	2 <	1 <	4	52.7	25.3	0.6	1.3	4.6 <	0.01 <	0.01 <	0.005		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
Feb-96																							
Mar-96																							
Apr-96																							
May-96																							
Jun-96	06/11/96	0.035	7.3	424	5	238			236	230	2 <	1 <	20	52.8	25.4	0.4	1.3	-2.3	0.01 <	0.01 <	0.005		
Jul-96	07/23/96	0.003	8.28	339	5	224			252	228	2 <	1	10 <	57.8	26.1	0.6	1.3	5.3	0.01 <	0.01 <	0.005		
Aug-96	08/19/96	0.006	7.7	332	5																		
Sep-96	09/30/96	0.001	7.7	442	5	226			267	225	2 <	1 <	10 <	60.1	28.4	0.5	1.5	9.2	0.01 <	0.01 <	0.005		
Oct-96																							
Nov-96																							
Dec-96																							

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

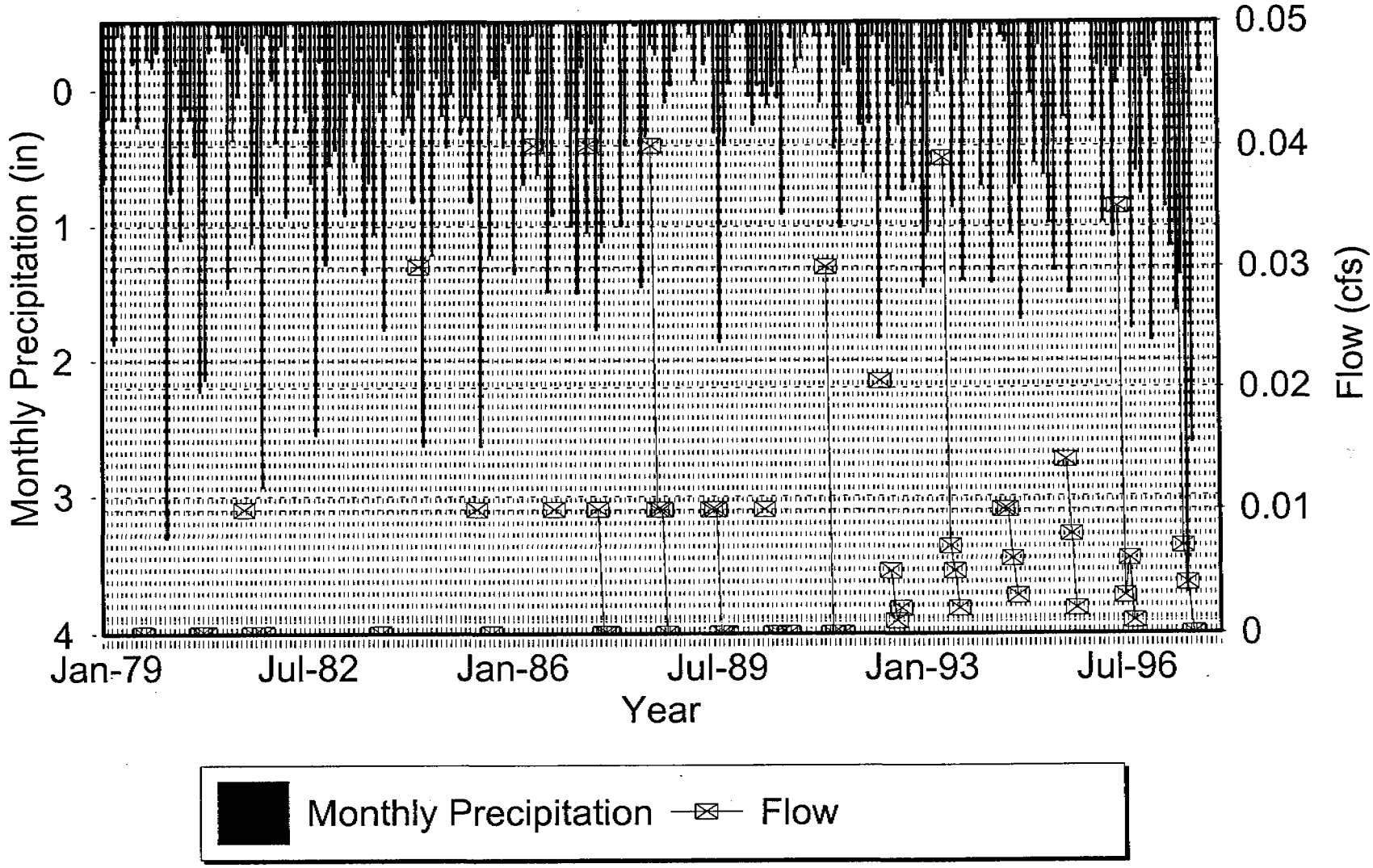
Station: 748 | Property: Star Point | Location: 2500' S 1300' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9805

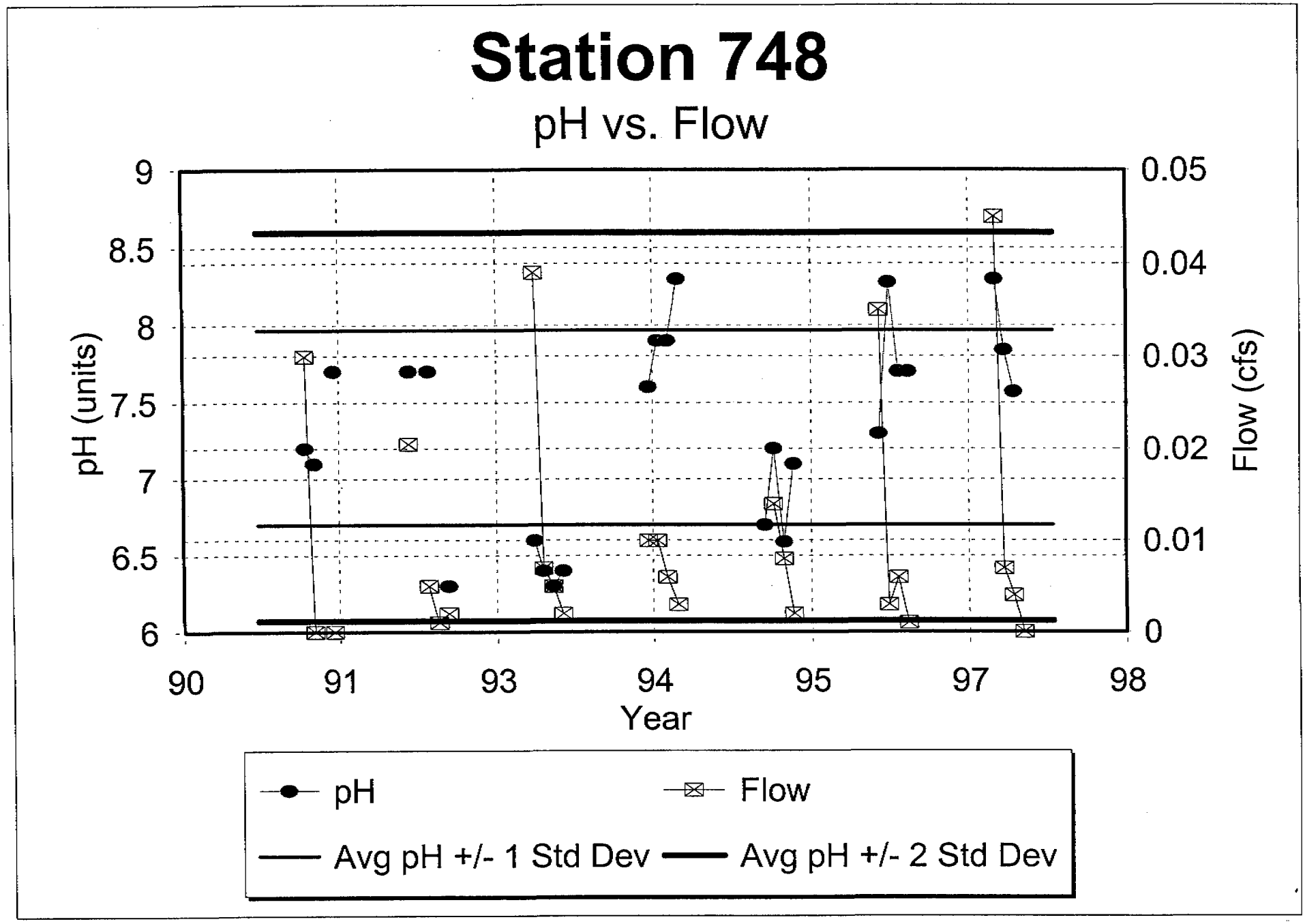
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cal/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.045	8.3	423	6.5	224			248	234	2 <	1 <	10 <	56.1	26.2	0.5	1.3	3.5	0.01 <	0.02	0.005	
Jul-97	07/30/97	0.007	7.84	478	8	220			230	210	10 <	0.5 <	5 <	53	24	0.8	1.5	5.6	0.01 <	0.01 <	0.005	
Aug-97	08/13/97	0.004	7.57	417	9																	
Sep-97	09/16/97	0																				Dry
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
	Count	54	25	25	25	44	0	0	20	20	20	20	20	20	20	20	20	8	20	20	17	
	Minimum	0	6.3	244	3.3	182	ERR	ERR	201	210 <	0 <	0.5 <	2 <	46	20 <	0.4	1	-2.3 <	0.01 <	0.01 <	0.005	
	Maximum	0.045	8.3	478	43.6	255	ERR	ERR	267	290 <	10 <	2 <	31 <	60.1	28.4 <	6	2	9.2 <	0.05 <	0.42 <	0.1	
	Average	0.0094	7.3352	403.28	7.74	216.59	ERR	ERR	232	246.3 <	2.15 <	1.125 <	9.6 <	53.245	24.08 <	1.095	1.245	4.0125 <	0.019 <	0.0725 <	0.0135	
	Standard Deviation	0.0127	0.6318	48.932	7.5665	14.274	ERR	ERR	15.083	24.631 <	3.0704 <	0.3832 <	8.8114 <	3.4409	1.9574 <	1.1465	0.309	3.1707 <	0.0099 <	0.1137 <	0.0219	
	Avg. -1 Std. Dev.	-0.003	6.7034	354.35	0.1735	202.32	ERR	ERR	216.92	221.67 <	-0.92 <	0.7418 <	0.7886 <	49.804	22.123 <	-0.052	0.936	0.8418 <	0.0091 <	-0.041 <	-0.008	
	Avg. +1 Std. Dev.	0.022	7.967	452.21	15.306	230.86	ERR	ERR	247.08	270.93 <	5.2204 <	1.5082 <	18.411 <	56.686	26.037 <	2.2415	1.554	7.1832 <	0.0289 <	0.1862 <	0.0355	
	Avg. -2 Std. Dev.	-0.016	6.0717	305.42	-7.393	188.04	ERR	ERR	201.83	197.04 <	-3.991 <	0.3585 <	-8.023 <	46.363	20.165 <	-1.198	0.627	-2.329 <	-0.001 <	-0.155 <	-0.03	
	Avg. +2 Std. Dev.	0.0347	8.5987	501.14	22.873	245.14	ERR	ERR	262.17	295.56 <	6.2908 <	1.8915 <	27.223 <	60.127	27.995 <	3.388	1.863	10.354 <	0.0389 <	0.2998 <	0.0574	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Station 748

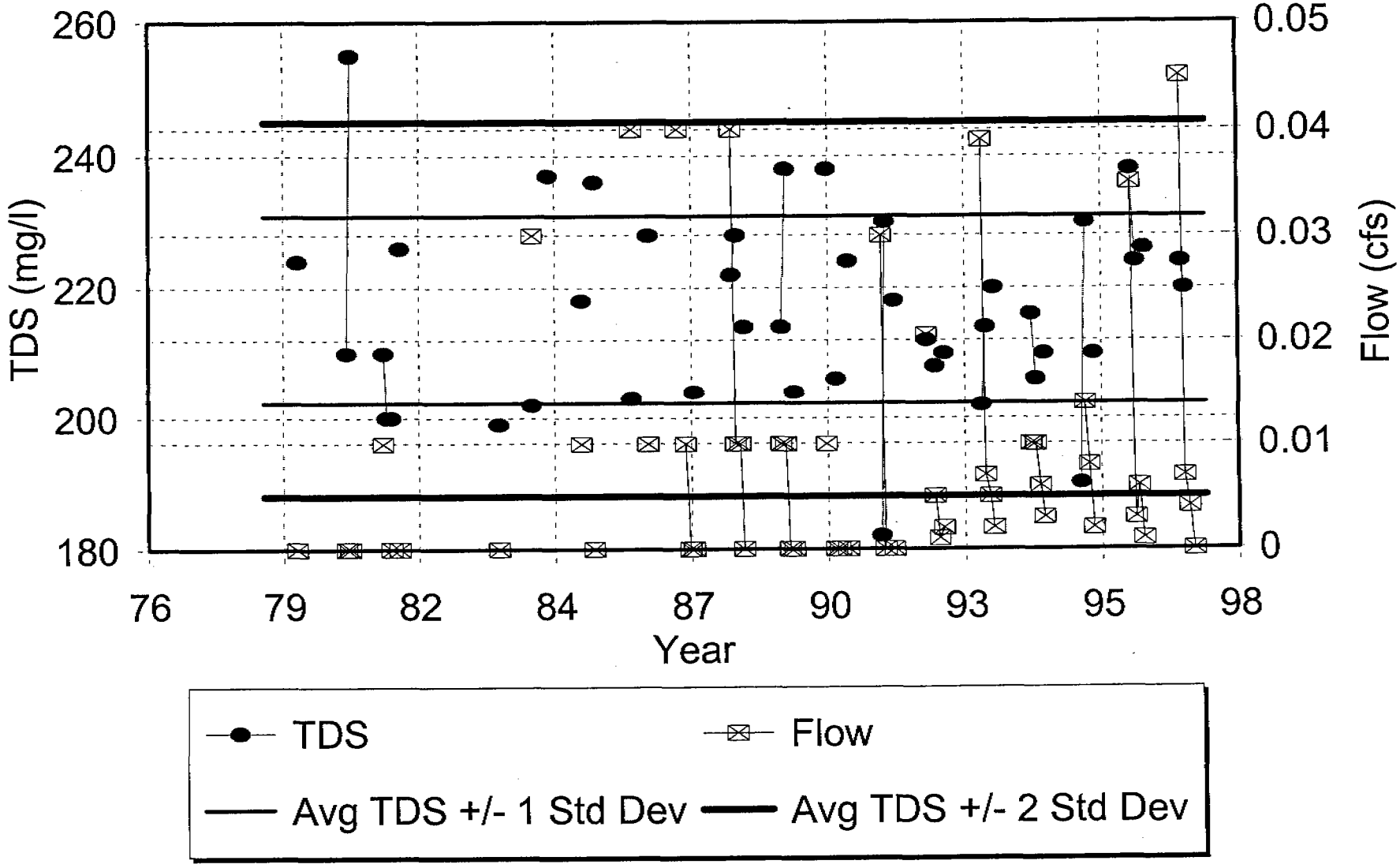
Monthly Precipitation vs. Flow

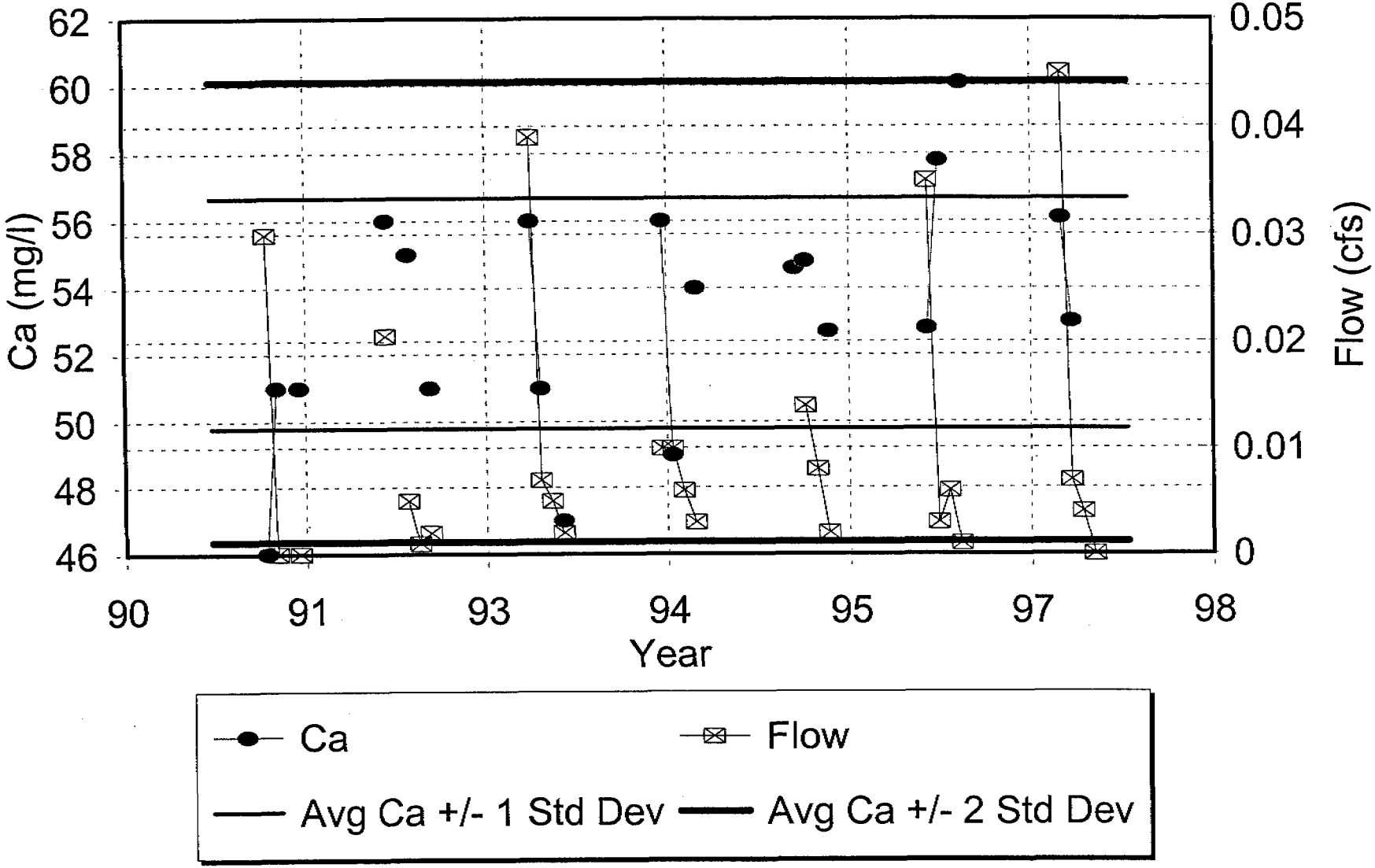



Station 748
pH vs. Flow
9
8.5
8
7.5
7
6.5
6
pH (units)
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
90
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 748

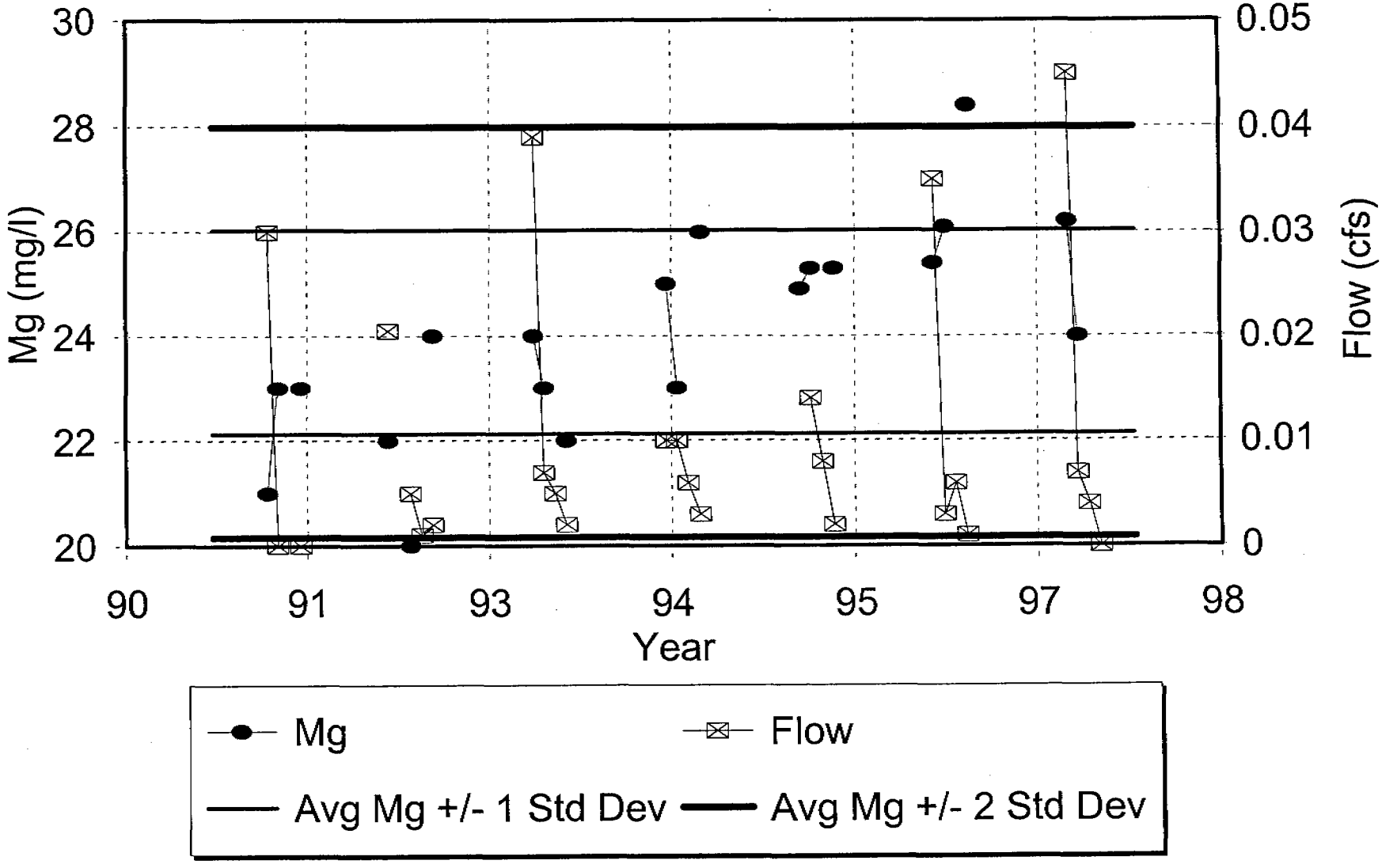
TDS vs. Flow

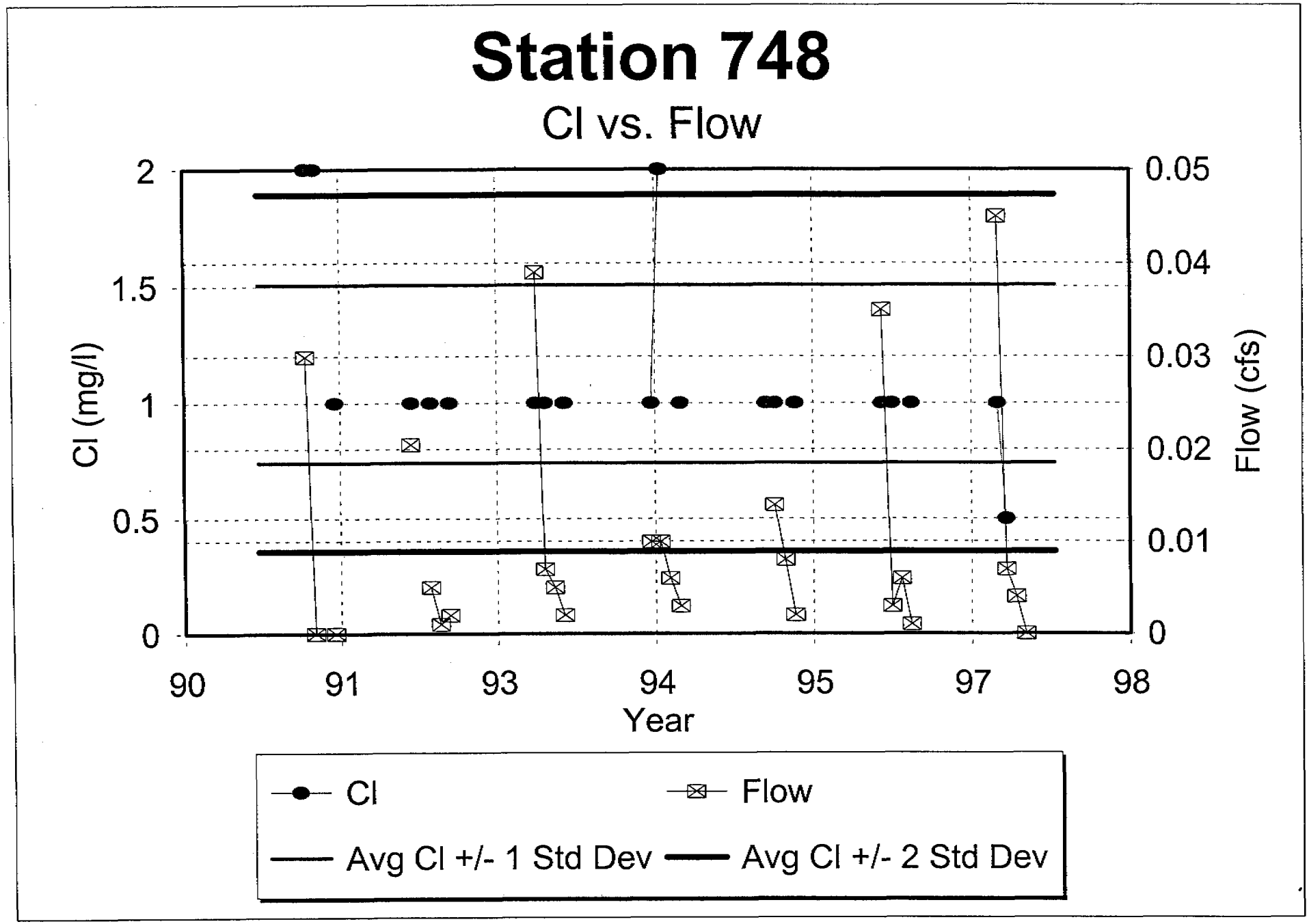



Station 748
Ca vs. Flow
Ca (mg/l)
62
60
58
56
54
52
50
48
46
Flow (cfs)
0.05
0.04
0.03
0.02
0.01
0
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

Station 748

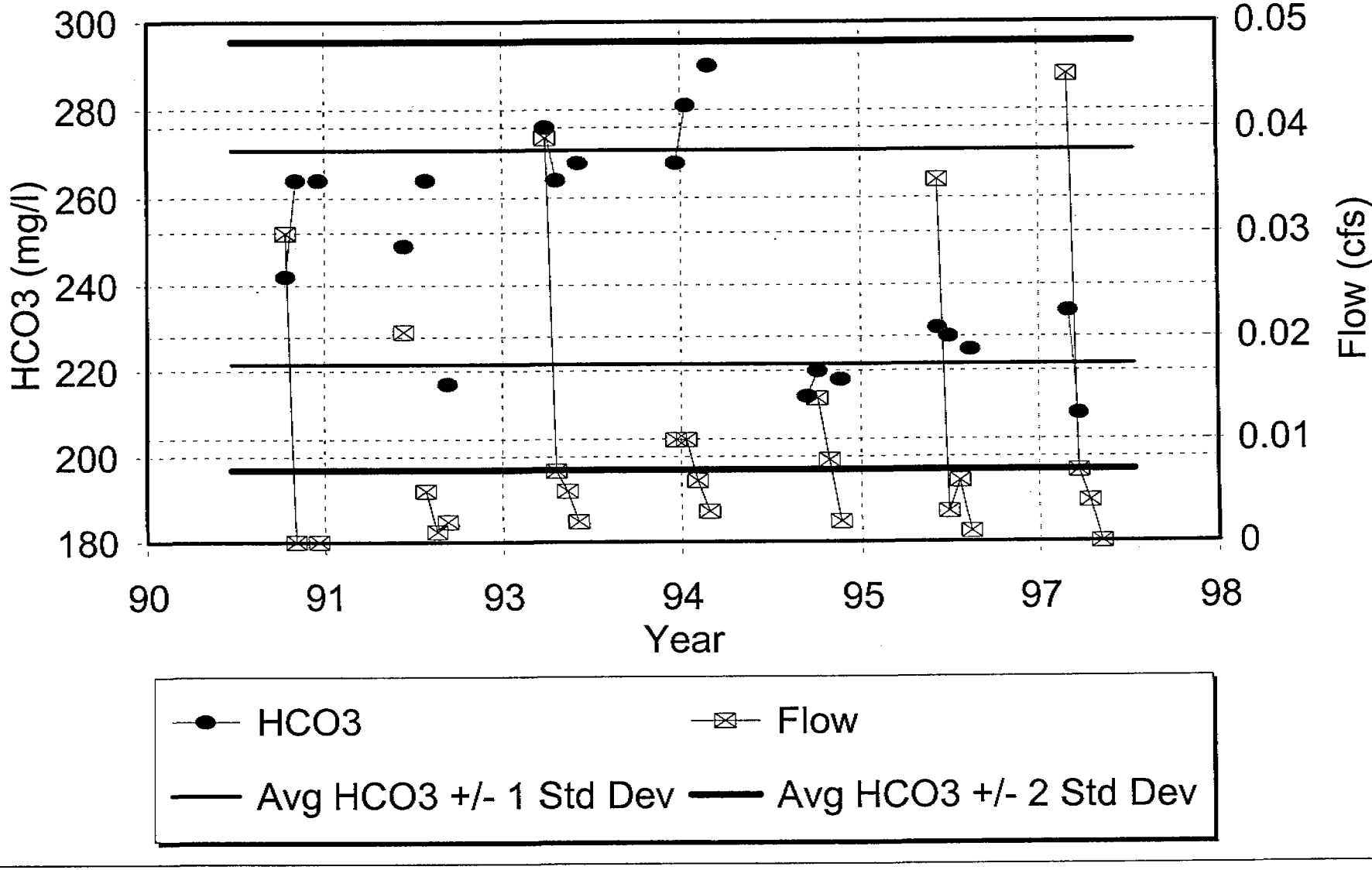
Mg vs. Flow




Station 748
Cl vs. Flow
Cl (mg/l)
2
1.5
1
0.5
0
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

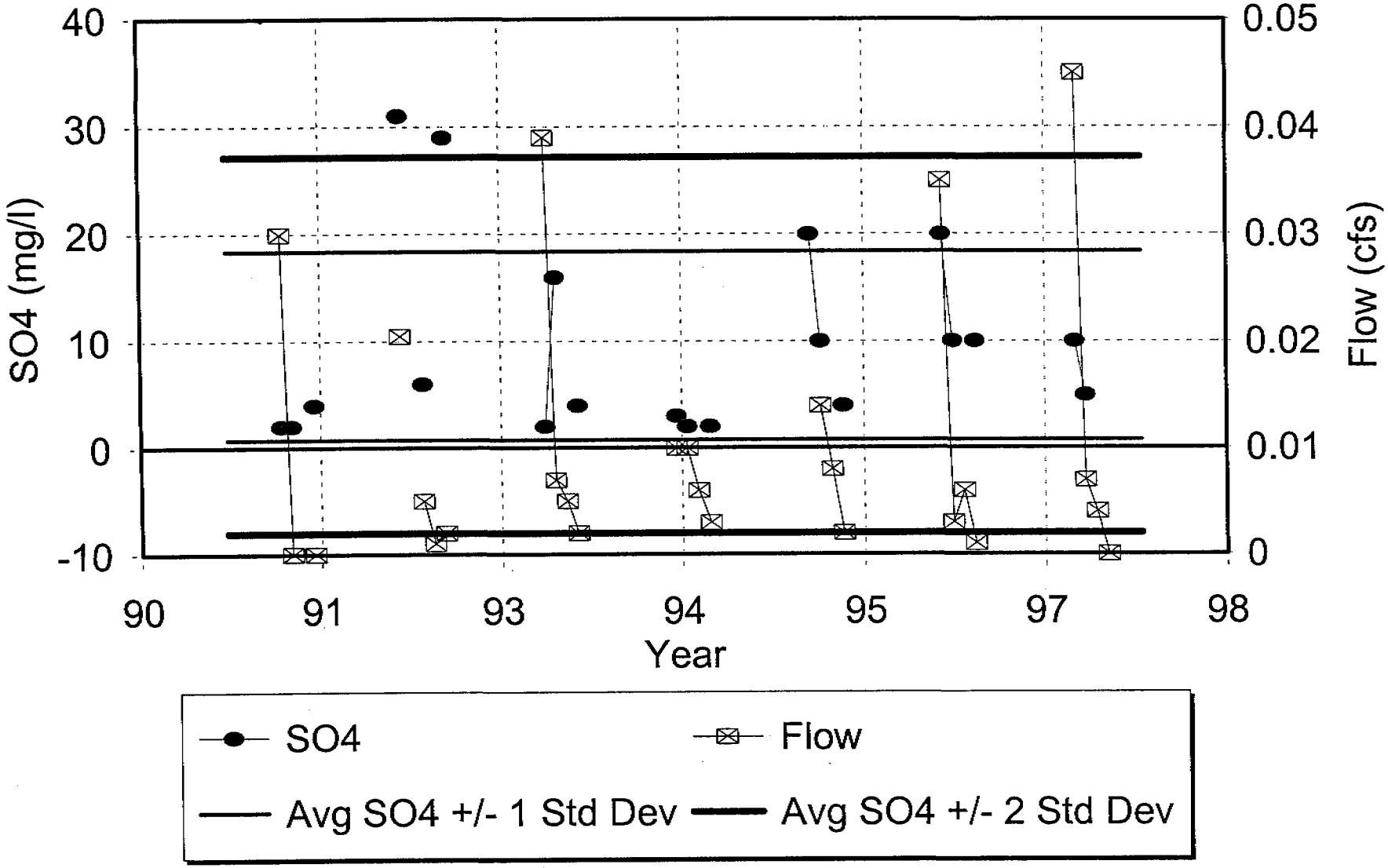
Station 748

HCO3 vs. Flow



Station 748

SO4 vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 749 | Property: Star Point | Location: 2250' N 100' E of SW corn. Sec 14, T15S, R7 E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9715

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/12/85	0.01				236																
Jul-85																						
Aug-85																						
Sep-85	09/25/85	0				208																
Oct-85																						
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86	06/12/86	0				258																
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86																						
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87	05/19/87	0.04																				
Jun-87																						
Jul-87																						
Aug-87	08/14/87	0				280																
Sep-87	09/23/87	0				248																
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/01/88	0.01																				
Jul-88	07/16/88	0				280																
Aug-88	08/20/88	0																				
Sep-88	09/10/88	0				278																
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0.01																				
Jul-89	07/11/89	0																				
Aug-89	08/22/89	0																				
Sep-89	09/14/89	0																				
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.01																				
Jun-90																						
Jul-90	07/07/90	0.01																				
Aug-90	08/22/90	0																				
Sep-90	09/24/90	0																				
Oct-90																						
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Station: 749 | Property: Star Point | Location: 2250' N 100' E of SW corn. Sec 14, T15S, R7 E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9715

Print Date: February 26, 1998

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/12/91	0.02	7.2	540	5	204			236	254	10	3	2	68	16	1	3	<	0.02 <	0.02 <	0.01		
Jul-91	07/15/91	0.01	7.9	460	6																		
Aug-91																							
Sep-91	09/17/91	0	8.3	470	10	272			255	317	0	1	16	74	17	1	3	<	0.02 <	0.02 <	0.01		
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/19/92	0.0118	7.5	465	4.2	272			262	307	0	1	39	77	17	1	3	<	0.02 <	0.02			
Jun-92																							
Jul-92	07/16/92	0.006	7.5	492	5.4																		
Aug-92	08/26/92	0.004	7.2	505	6.3																		
Sep-92	09/21/92	0.002	6.2	508	7.9	260			220	281	0	2	10	60	17	1	10	<	0.02 <	0.02			
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93	06/21/93	0.016	6.2	420	5	248			241	315	0	2	5	70	16 <	1	3	<	0.02 <	0.02 <	0.01		
Jul-93	07/27/93	0.004	6.2	449	8.1	260			261	307	0	2	9	75	16	1	3	<	0.02 <	0.02 <	0.01		
Aug-93	07/17/93	0.002	6.2	466	6.7																		
Sep-93	09/27/93	0.001	6.4	481	8.6	264	260	233		317	0	1	2	67	16	1	3	<	0.02 <	0.02 <	0.01		
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94	06/09/94	0.009	7.2	543	4.1	260			266	312	0	2	2	77	18	1	3	<	0.02 <	0.02 <	0.01		
Jul-94	07/19/94	< 0.01	7.6	482	12.7	256			245	300	10	2	6	70	17	1	3	<	0.02 <	0.02 <	0.01		
Aug-94	08/31/94	0.001	7.8	429	13.1																		RAIN IN A.M. = ~.10", LO
Sep-94	09/21/94	0	7.7	502	9.3	258			278	311	0	2	5	80	19	1	3	<	0.02 <	0.02 <	0.01		
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/21/95	0.029	7.3	530	5	270			269	250 <	2 <	1 <	10	78	18	1.1	4.4	5.6 <	0.01 <	0.01 <	0.005		
Jul-95	07/26/95	0.012	7.5	458	5.5	260			266	260 <	2	2	10	76.2	18.3	1	3.5	0.2	0.05 <	0.01 <	0.005		
Aug-95	08/23/95	0.003	7.21	466	8																		
Sep-95	09/27/95	0.001	7.4	534	11.06	260			269	251 <	2	3	14	77.2	18.5	1.1	3.3	1.4 <	0.01 <	0.01 <	0.005		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
Feb-96																							
Mar-96																							
Apr-96																							
May-96																							
Jun-96	06/12/96	0.016	7.08	597	5	269			283	270	2 <	2	10 <	82	18.9	0.9	3.6	3.3	0.01 <	0.03	0.005		
Jul-96	07/24/96	0.001	7.95	507	9	271			290	269	2 <	2	10 <	82.9	20.1	1	3.4	4.7	0.01 <	0.01 <	0.005		
Aug-96	08/19/96	0.0005	6.28	390	8																		
Sep-96	09/30/96	0.0002	7.8	544	7	276			275	269	2 <	2	10	79.3	18.7	1	3.2	0.2	0.01 <	0.01 <	0.005		
Oct-96																							
Nov-96																							
Dec-96																							

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

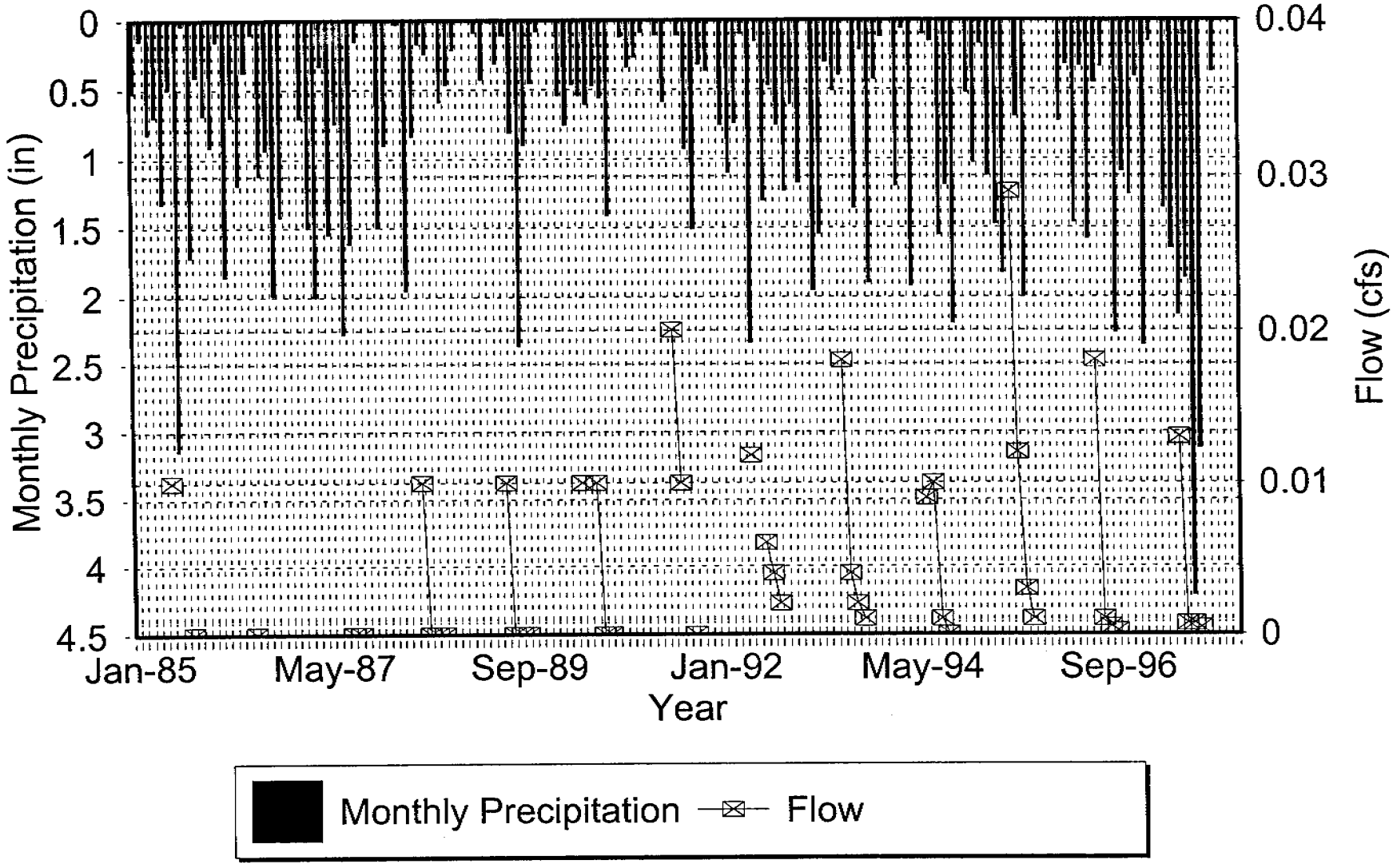
Station: 749 | Property: Star Point | Location: 2250' N 100' E of SW corn. Sec 14, T15S, R7 E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9715

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.013	8.2	505	5.5	291			283	274	2 <	1	20	82.3	18.8	1	3.5	-0.8	0.01 <	0.01 <	0.005	
Jul-97	07/30/97	0.0007	7.58	713	9	250			270	250	10 <	0.5 <	5 <	78	18	1.4	3.3	5.2	0.01 <	0.02	0.005	
Aug-97	08/13/97	0.0007	7.51	494	10.5																	
Sep-97	09/16/97	0.0004	7.72	457	10	300			280	260	10 <	0.5 <	15	77	22	1.6	3.7	3	0.01 <	0.01 <	0.005	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		45	27	27	27	26	1	1	18	19	19	19	19	19	19	19	19	9	19	19	17	
Minimum		< 0	6.2	390	4.1	204	260	233	220	250 <	0 <	0.5 <	2 <	60	16 <	0.9	3	-0.8 <	0.01 <	0.01 <	0.005	
Maximum		< 0.04	8.3	713	13.1	300	260	233	290	317 <	10 <	3 <	39 <	82.9	22 <	1.6	10	5.6 <	0.05 <	0.03 <	0.01	
Average		< 0.006	7.3567	497.3	7.6281	261.96	260	233	263.83	282.84 <	2.8421 <	1.6642 <	10.526 <	75.311	18.016 <	1.0579	3.6263	2.5333 <	0.0174 <	0.0168 <	0.0074	
Standard Deviation		< 0.0084	0.6201	60.174	2.4836	21.18	0	0	17.902	25.286 <	3.8012 <	0.711 <	8.2613 <	5.7658	1.4452 <	0.16	1.543	2.2435 <	0.0091 <	0.0057 <	0.0025	
Avg. -1 Std. Dev.		< -0.002	6.7366	437.12	5.1446	240.78	260	233	245.93	257.56 <	-0.959 <	0.9732 <	2.265 <	69.545	16.571 <	0.8979	2.0833	0.2898 <	0.0083 <	0.0112 <	0.0049	
Avg. +1 Std. Dev.		< 0.0144	7.9768	557.47	10.112	283.14	260	233	281.74	308.13 <	6.6433 <	2.3952 <	18.788 <	81.076	19.461 <	1.2179	5.1693	4.7768 <	0.0265 <	0.0225 <	0.0098	
Avg. -2 Std. Dev.		< -0.011	6.1165	376.95	2.661	219.6	260	233	228.03	232.27 <	-4.76 <	0.2622 <	-5.996 <	63.779	15.125 <	0.7379	0.5403	-1.954 <	-0.001 <	0.0055 <	0.0024	
Avg. +2 Std. Dev.		< 0.0229	8.5968	617.64	12.595	304.32	260	233	299.64	333.41 <	10.444 <	3.1062 <	27.049 <	86.842	20.906 <	1.3779	6.7123	7.0204 <	0.0355 <	0.0282 <	0.0123	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

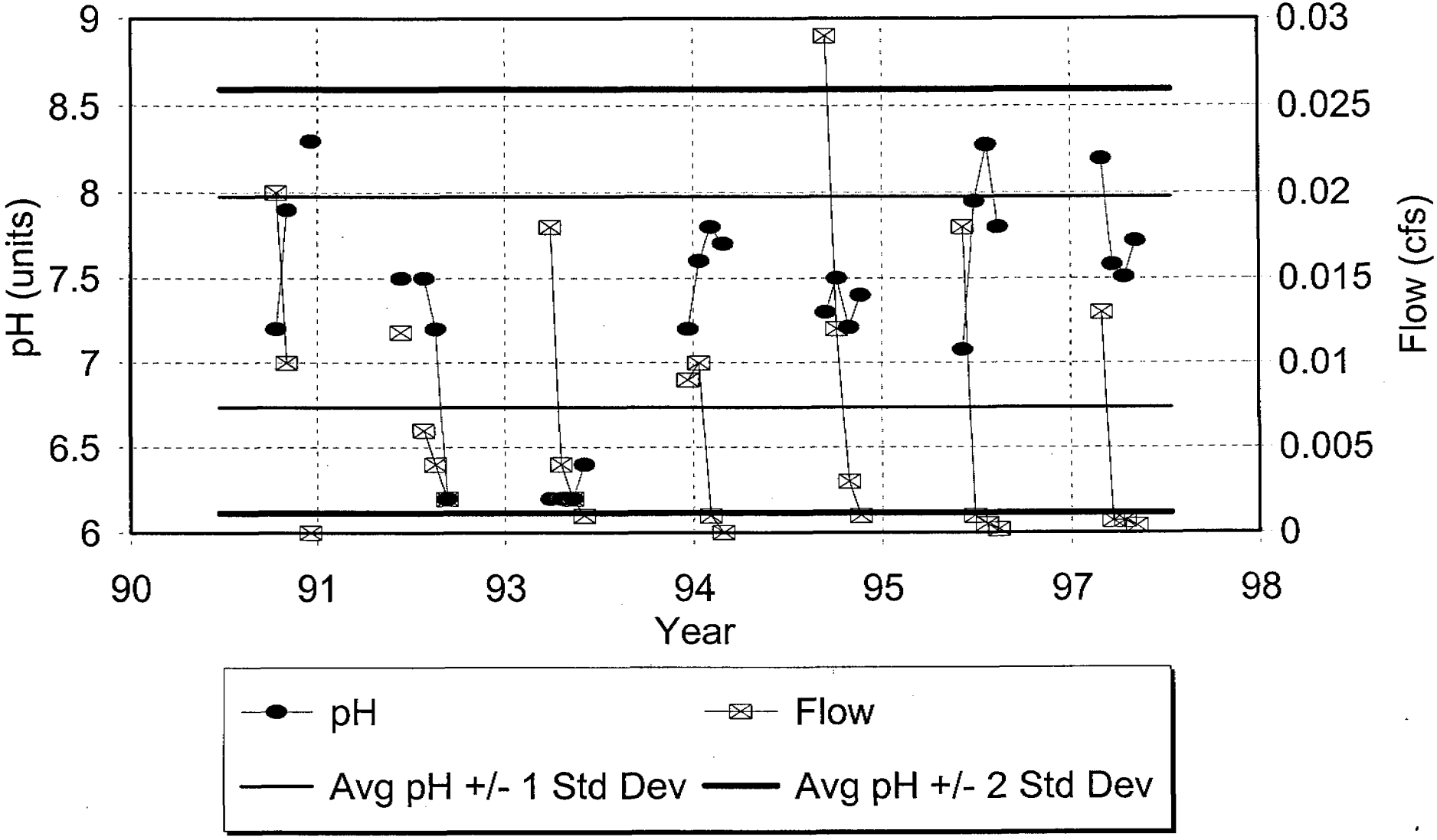
Station 749

Monthly Precipitation vs. Flow



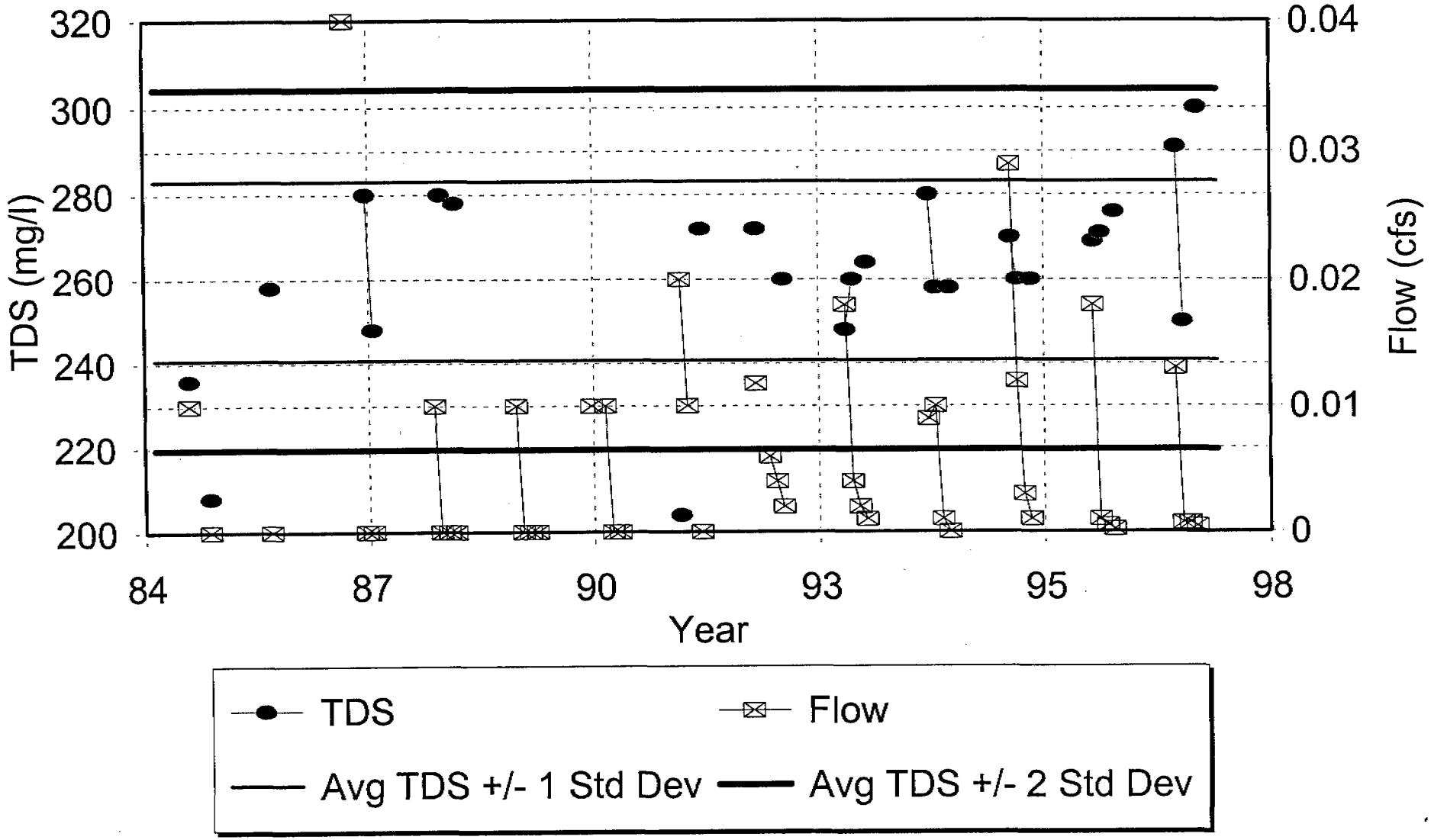
Station 749

pH vs. Flow



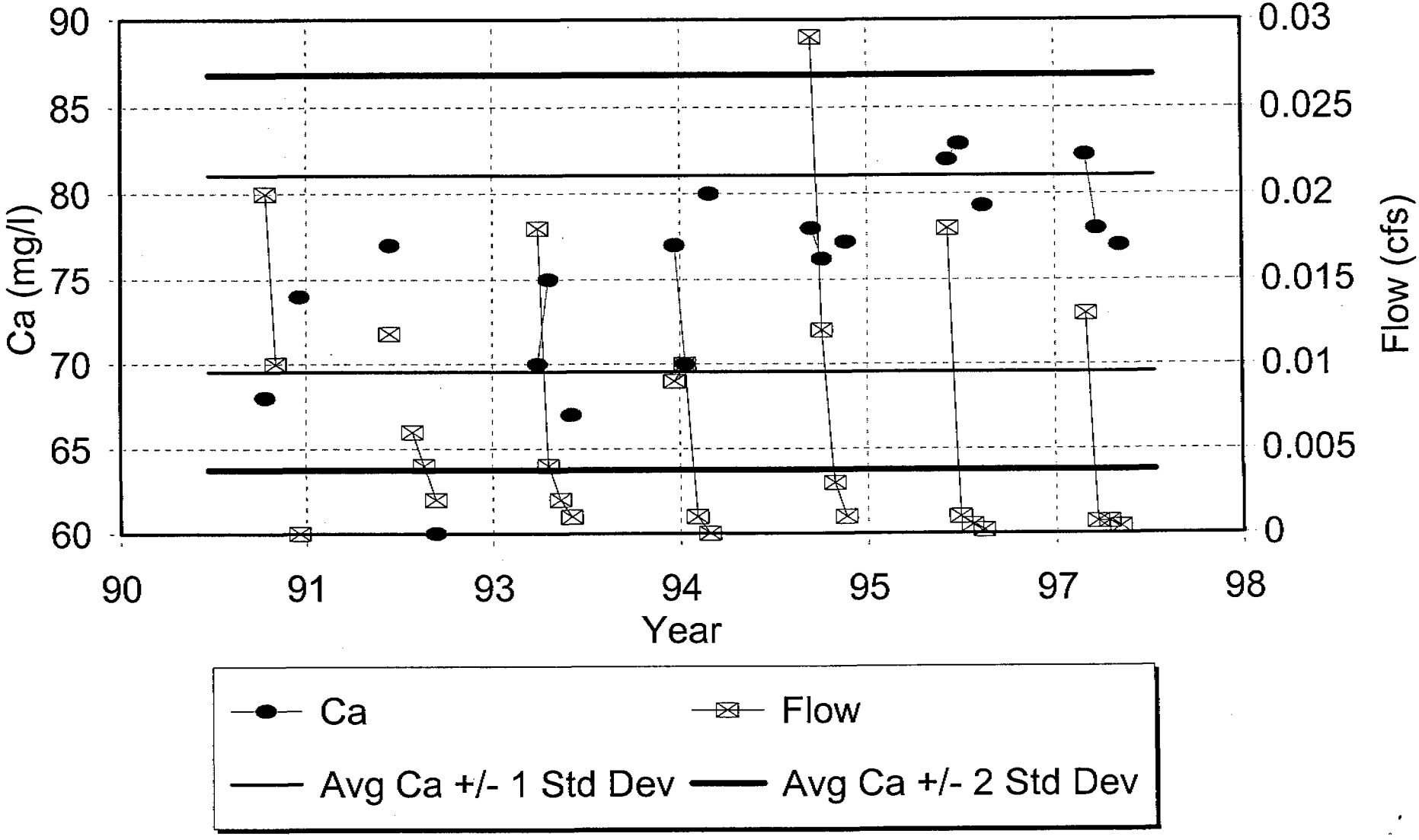
Station 749

TDS vs. Flow



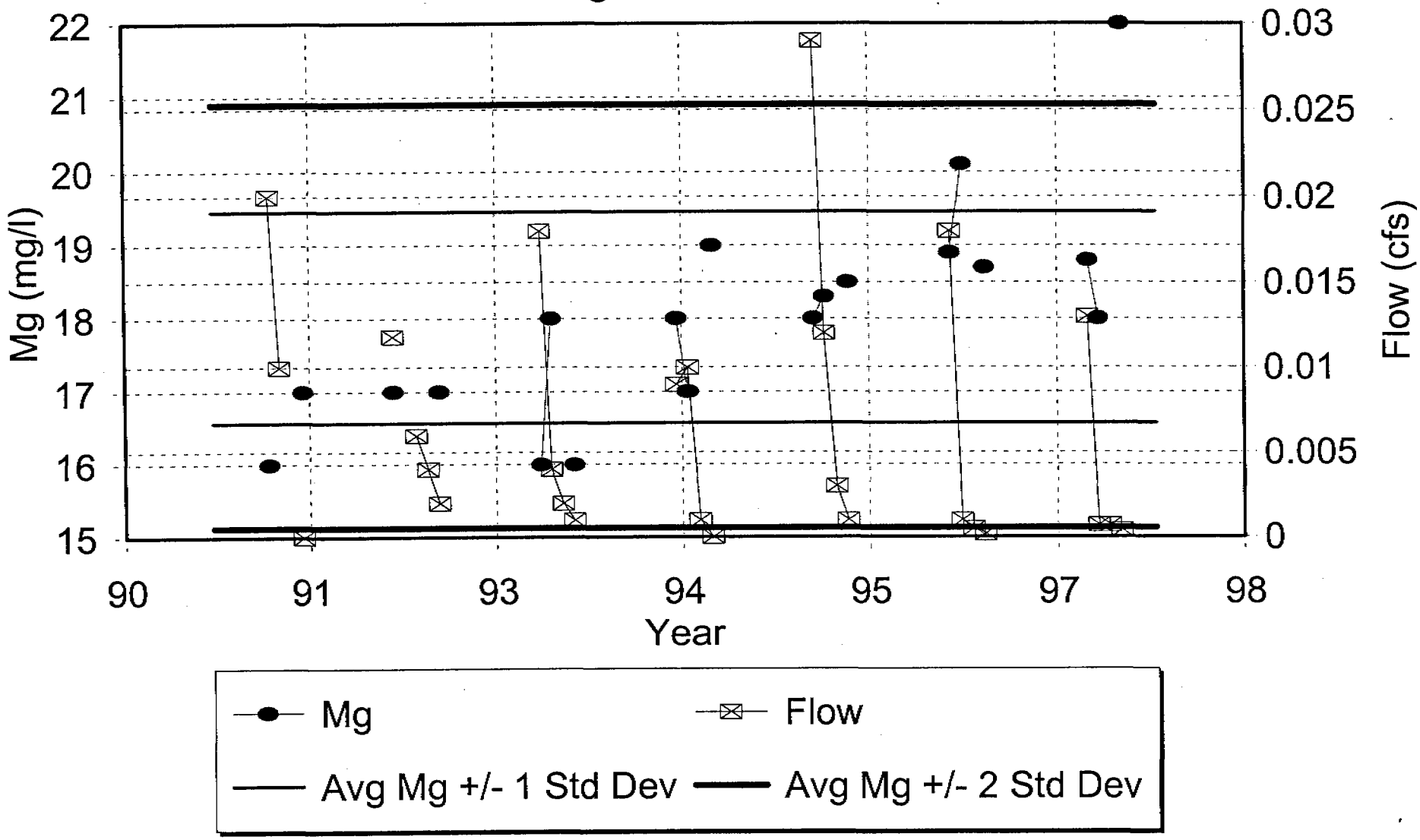
Station 749

Ca vs. Flow



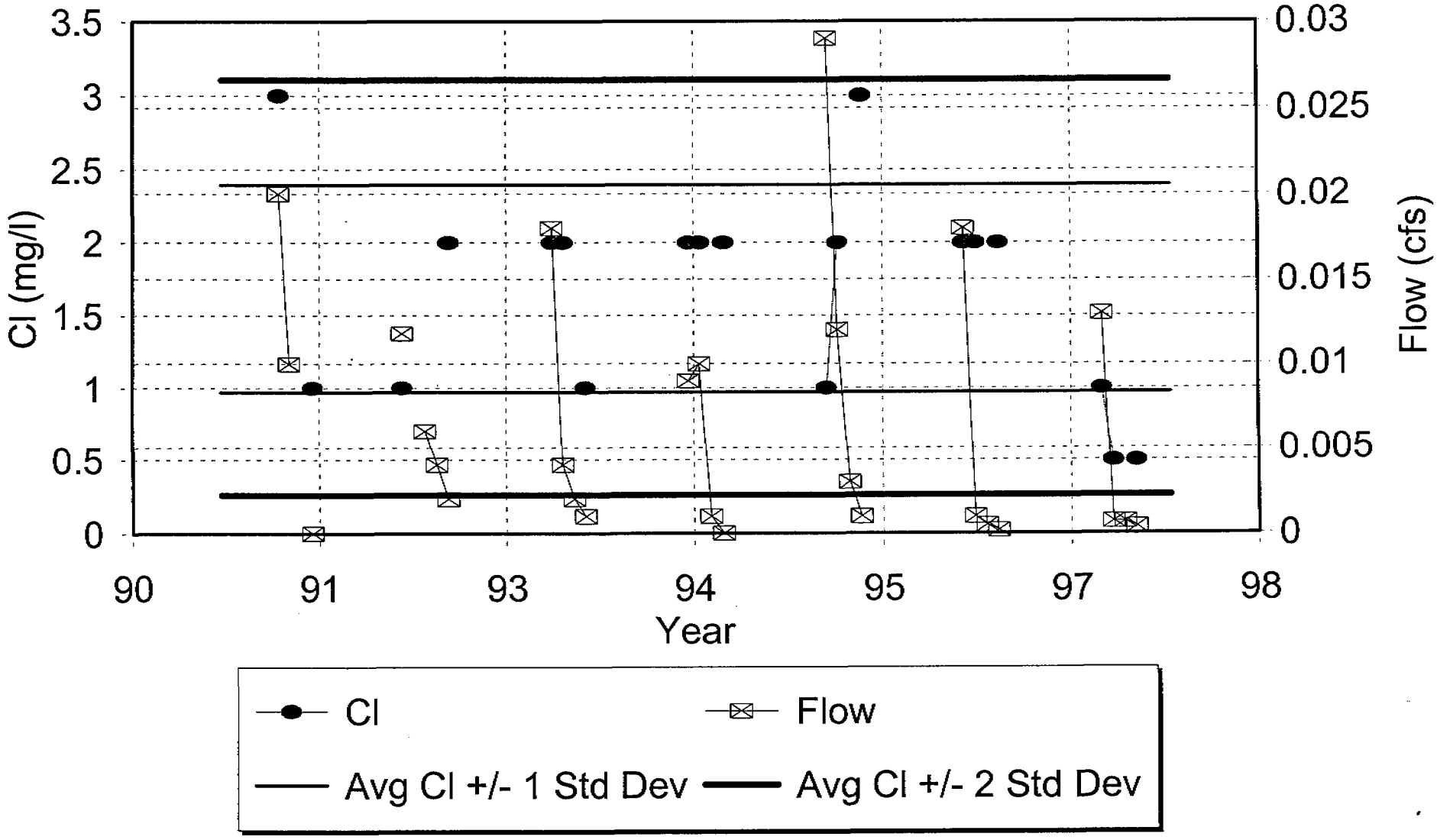
Station 749

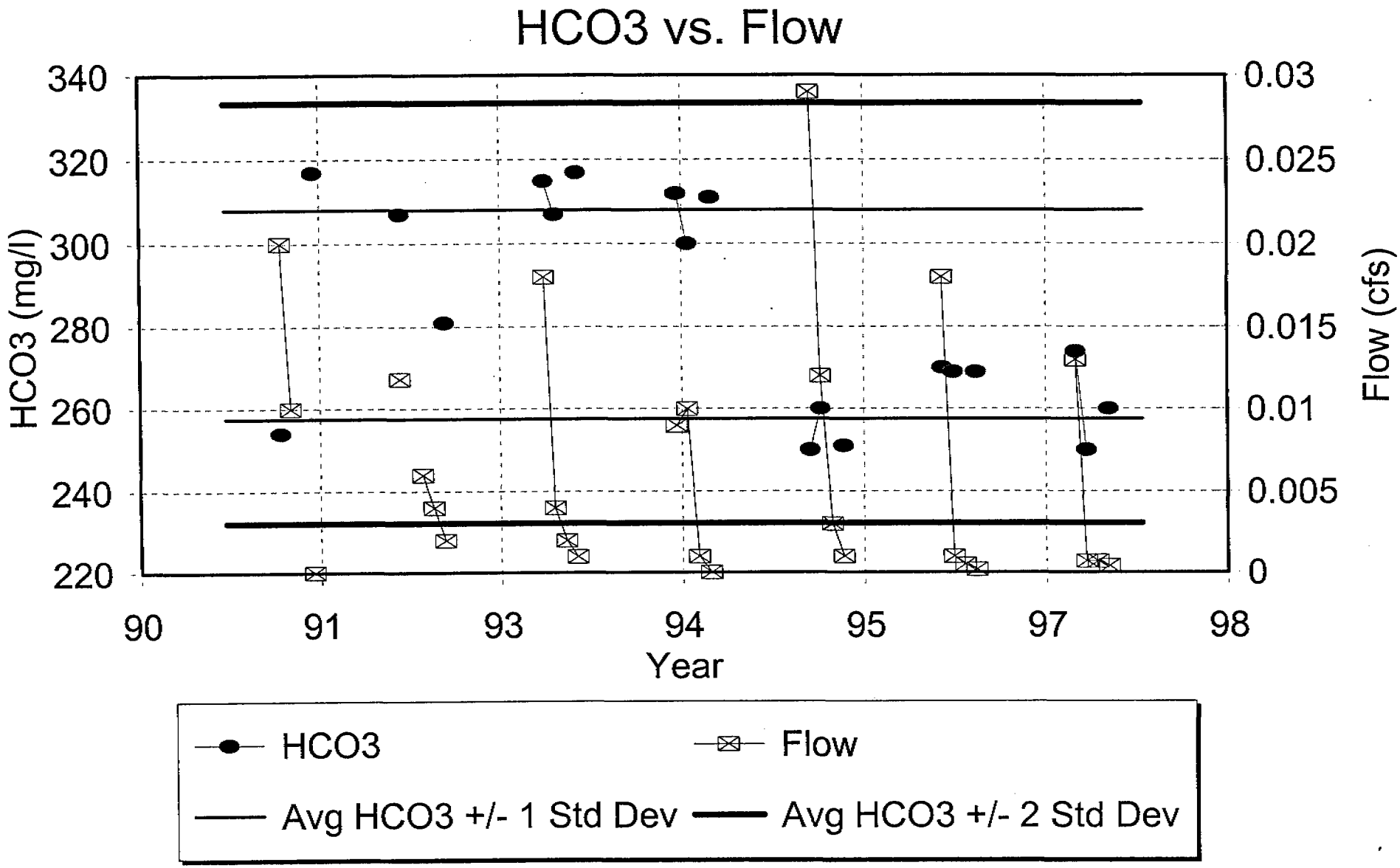
Mg vs. Flow



Station 749

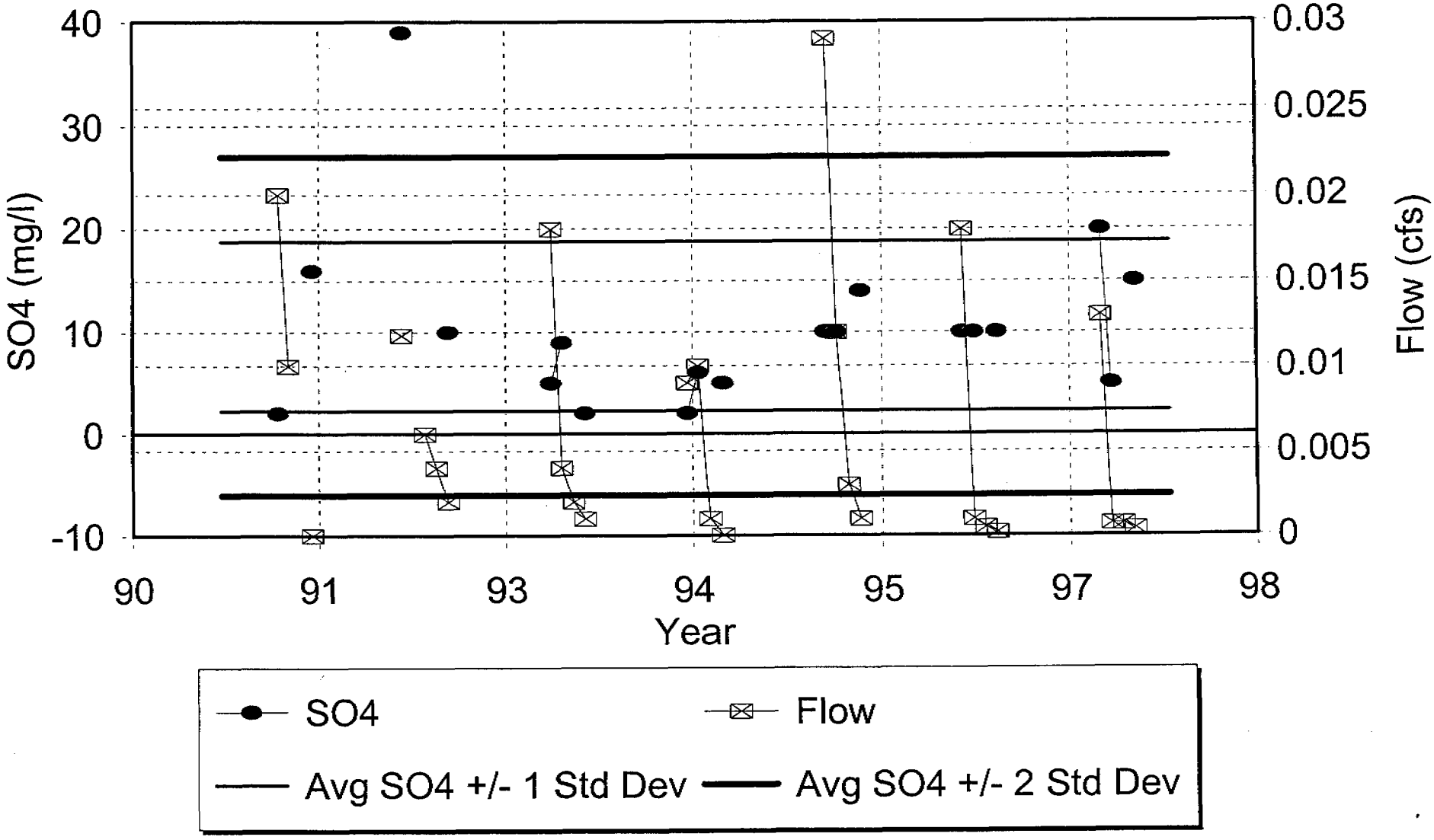
Cl vs. Flow




Station 749
HCO3 vs. Flow
340
320
300
280
260
240
220
HCO3 (mg/l)
0.03
0.025
0.02
0.015
0.01
0.005
0
Flow (cfs)
90
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

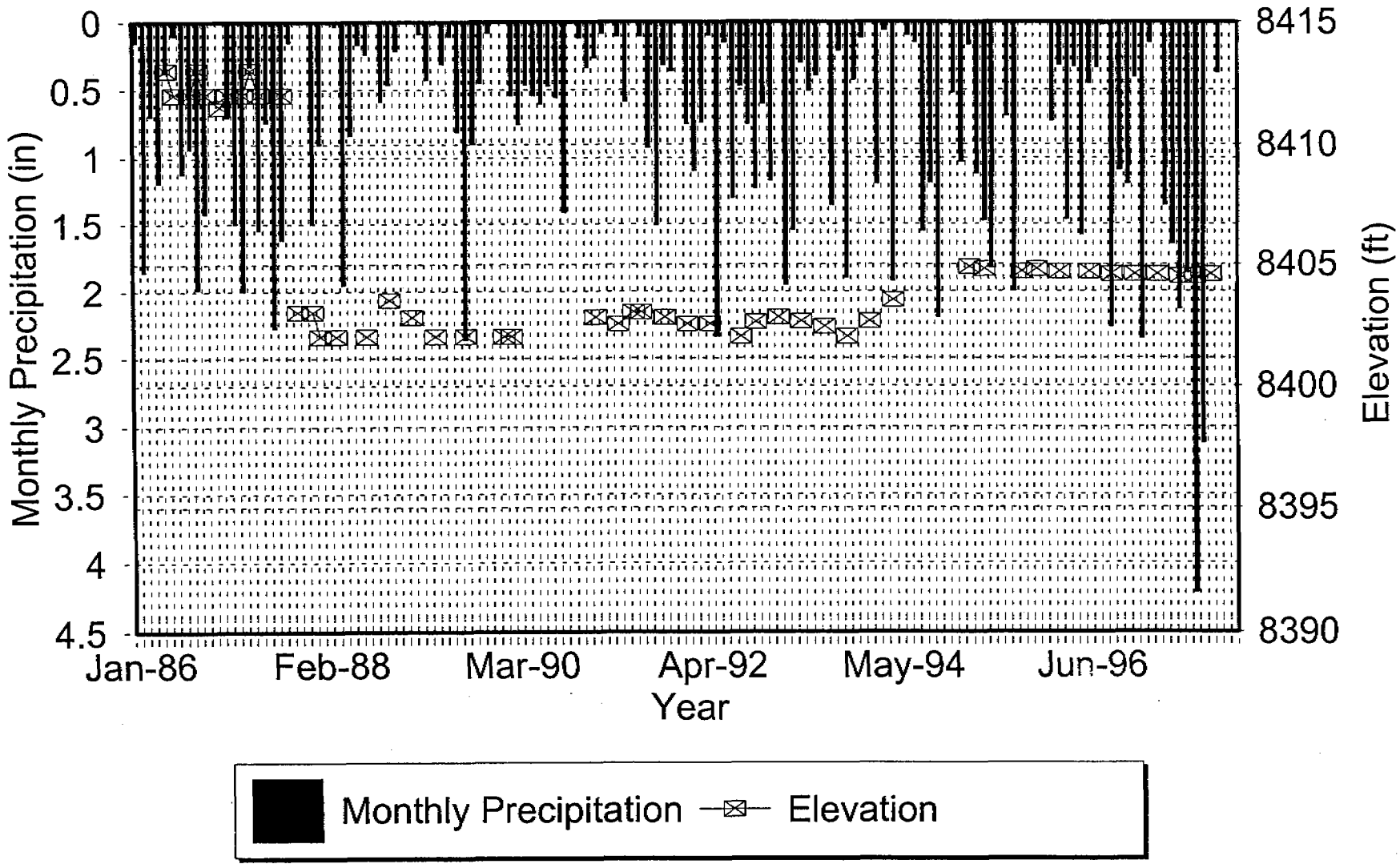
Station 749

SO4 vs. Flow



Station P8602HD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P8602HD | Property: Star Point | Location: 1000' N 1125' W of SE corn. Sec 12, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8476

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
END DATA																						
Count		49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8402	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8413	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8405.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		3.6846	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8401.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8409.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8397.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8413	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Station: P6602HD | Property: Star Point | Location: 1000' N 1125' W of SE corn. Sec 12, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Print Date: February 27, 1998 | Elevation: 8476

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8402.5																				
Feb-92																						
Mar-92																						
Apr-92		8402.5																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8402																				
Sep-92																						
Oct-92		8402.6																				
Nov-92																						
Dec-92																						
Jan-93		8402.8																				
Feb-93																						
Mar-93																						
Apr-93		8402.6																				
May-93																						
Jun-93																						
Jul-93		8402.4																				
Aug-93																						
Sep-93																						
Oct-93		8402																				
Nov-93																						
Dec-93																						
Jan-94		8402.6																				
Feb-94																						
Mar-94																						
Apr-94		8403.5																				
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95		8404.9																				
Mar-95																						
Apr-95		8404.8																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95																						
Sep-95		8404.7																				
Oct-95																						
Nov-95		8404.8																				
Dec-95																						
Jan-96																						
Feb-96	02/27/96	8404.7																				
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/23/96	8404.7																				
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8404.6																				
Oct-96																						
Nov-96																						
Dec-96	12/17/96	8404.6																				
Jan-97																						
Feb-97																						
Mar-97	03/13/97	8404.6																				
Apr-97																						
May-97																						
Jun-97	06/17/97	8404.5																				
Jul-97																						
Aug-97	08/21/97	8404.5																				
Sep-97																						
Oct-97		8404.6																				
Nov-97																						
Dec-97																						

Cyprus Plateau Mining Company - Water Quality Data

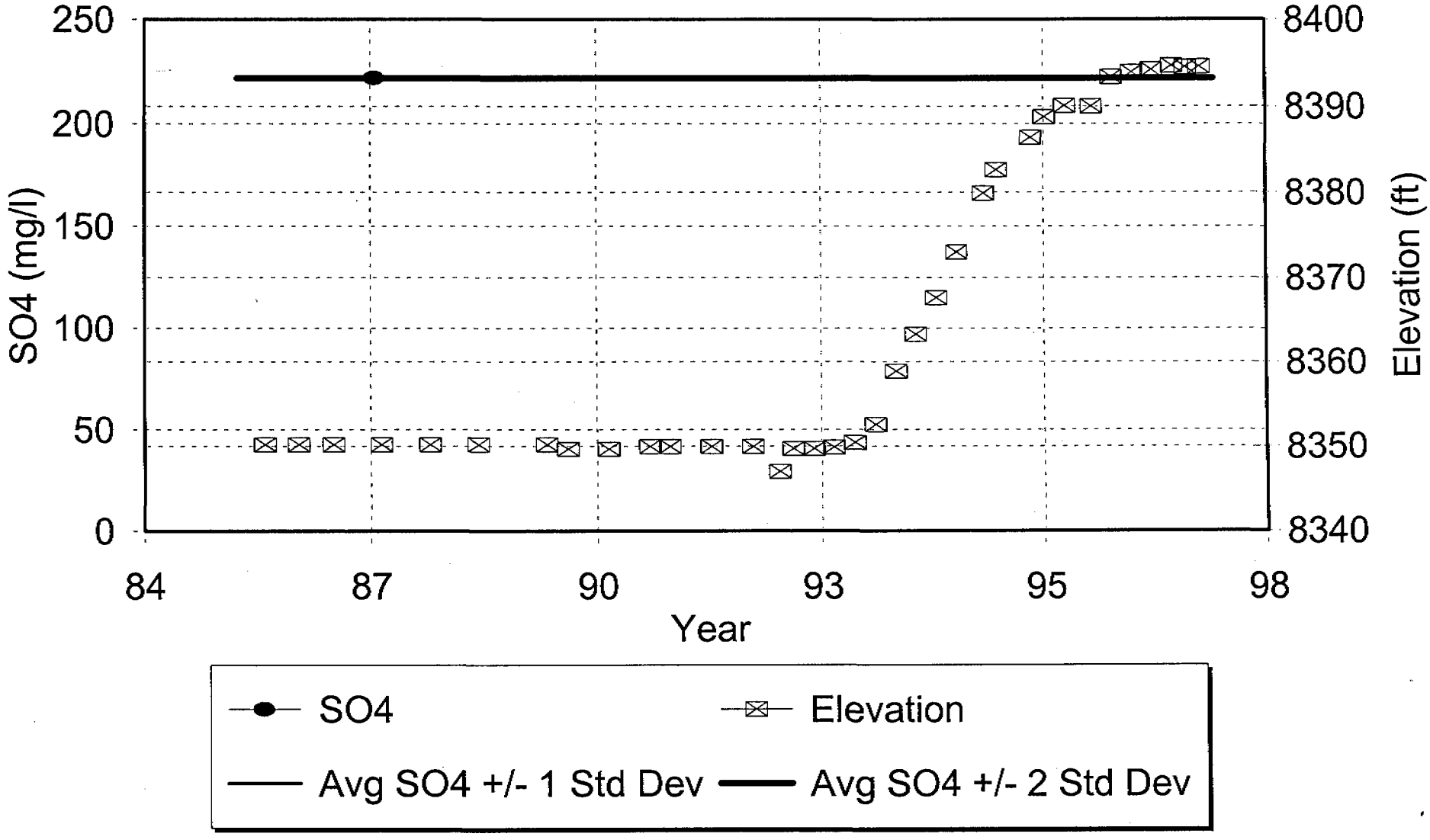
Print Date: February 27, 1998

Station: P8602HD | Property: Star Point | Location: 1000' N 1125' W of SE com. Sec 12, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8476

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86		8413																				
Jun-86		8412																				
Jul-86																						
Aug-86		8412																				
Sep-86		8413																				
Oct-86		8412																				
Nov-86																						
Dec-86		8411.5																				
Jan-87		8412																				
Feb-87																						
Mar-87		8412																				
Apr-87		8413																				
May-87		8412																				
Jun-87																						
Jul-87																						
Aug-87		8412																				
Sep-87																						
Oct-87		8403																				
Nov-87																						
Dec-87		8403																				
Jan-88		8402																				
Feb-88																						
Mar-88		8402																				
Apr-88																						
May-88																						
Jun-88																						
Jul-88		8402																				
Aug-88																						
Sep-88																						
Oct-88		8403.5																				
Nov-88																						
Dec-88																						
Jan-89		8402.8																				
Feb-89																						
Mar-89																						
Apr-89		8402																				
May-89																						
Jun-89																						
Jul-89																						
Aug-89		8402																				
Sep-89																						
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90		8402																				
Feb-90		8402																				
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90																						
Aug-90																						
Sep-90																						
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91		8402.8																				
Feb-91																						
Mar-91																						
Apr-91		8402.5																				
May-91																						
Jun-91		8403																				
Jul-91		8403																				
Aug-91																						
Sep-91																						
Oct-91		8402.8																				
Nov-91																						
Dec-91																						

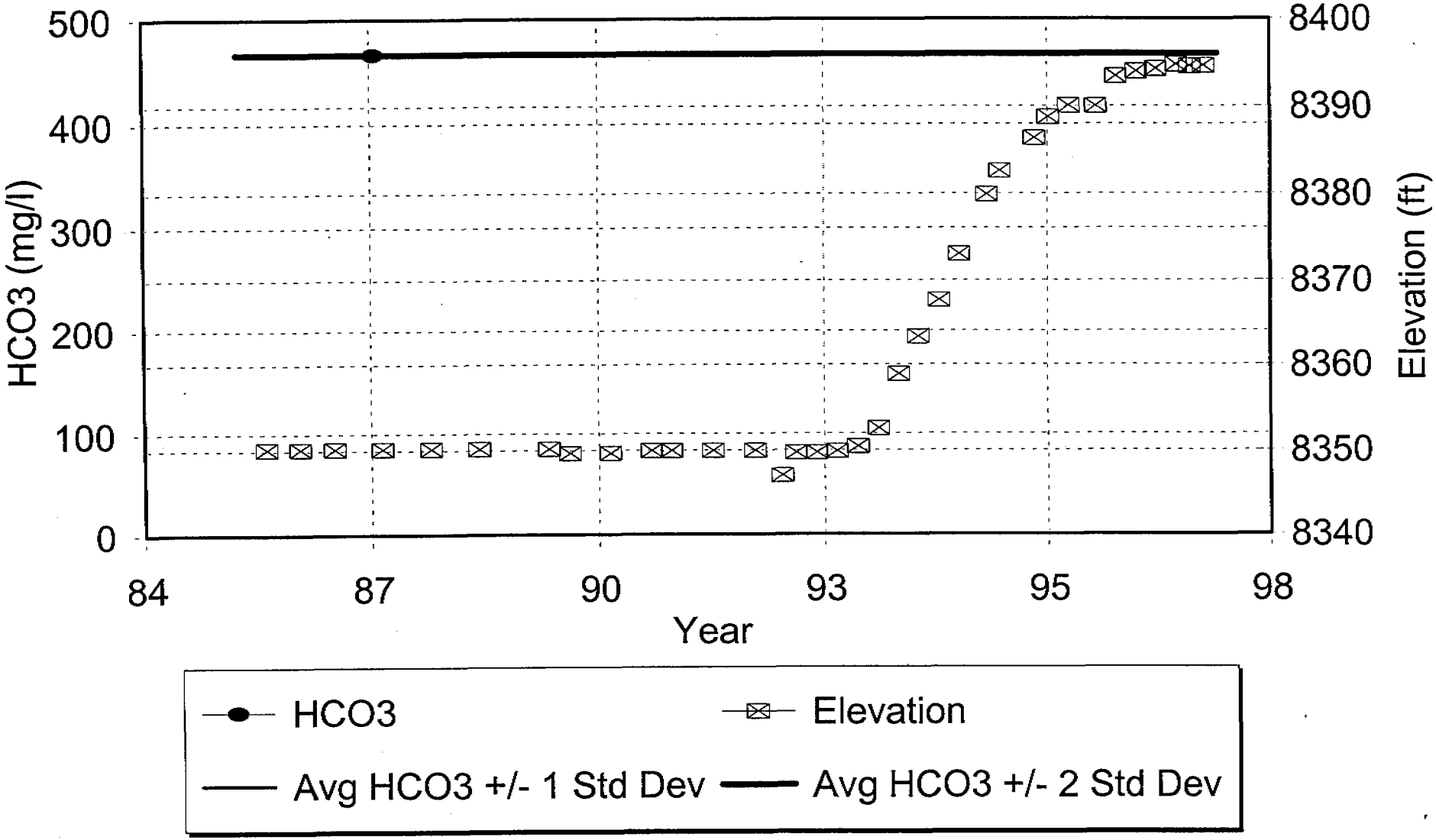
Station P8601TD

SO4 vs. Elevation



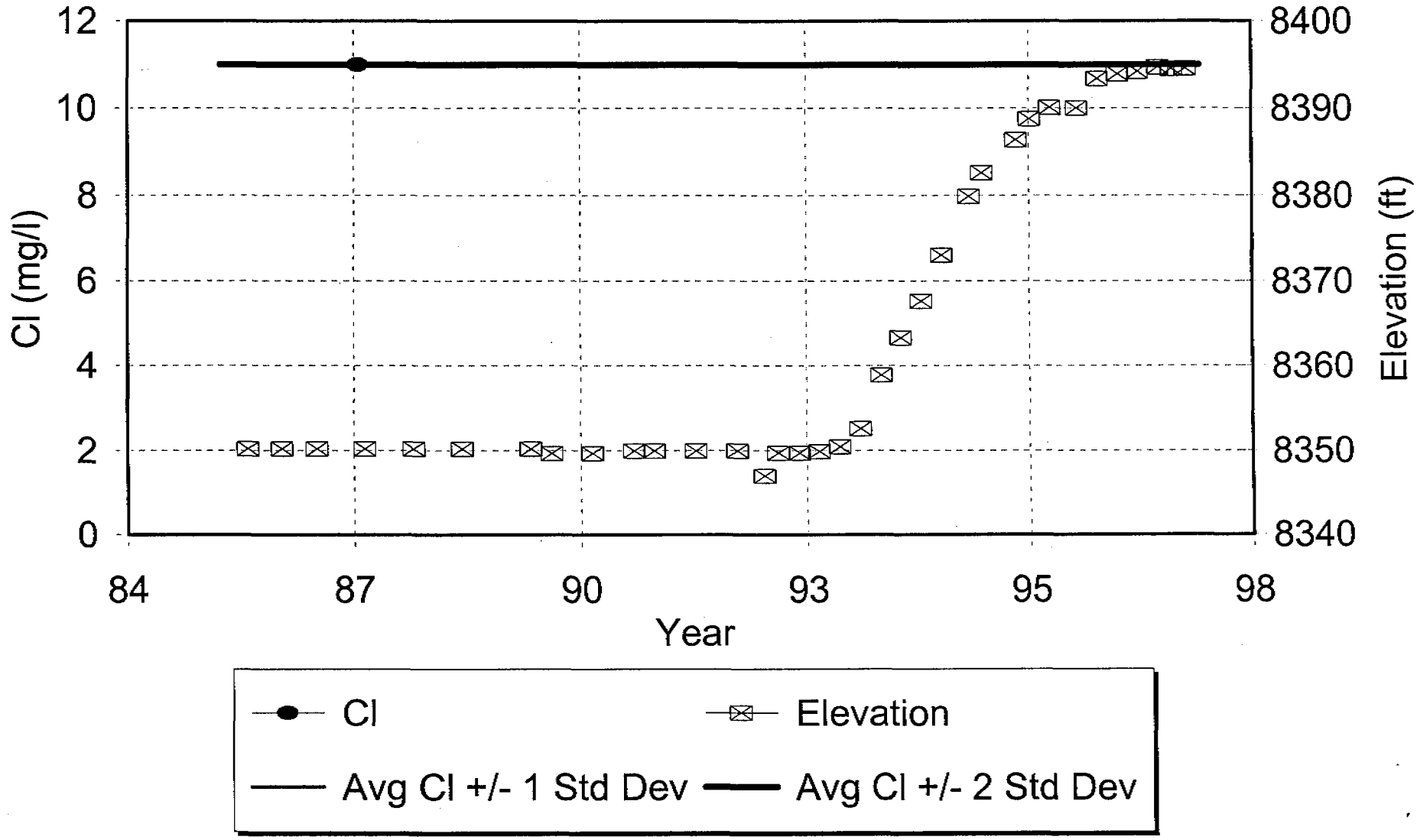
Station P8601TD

HCO3 vs. Elevation



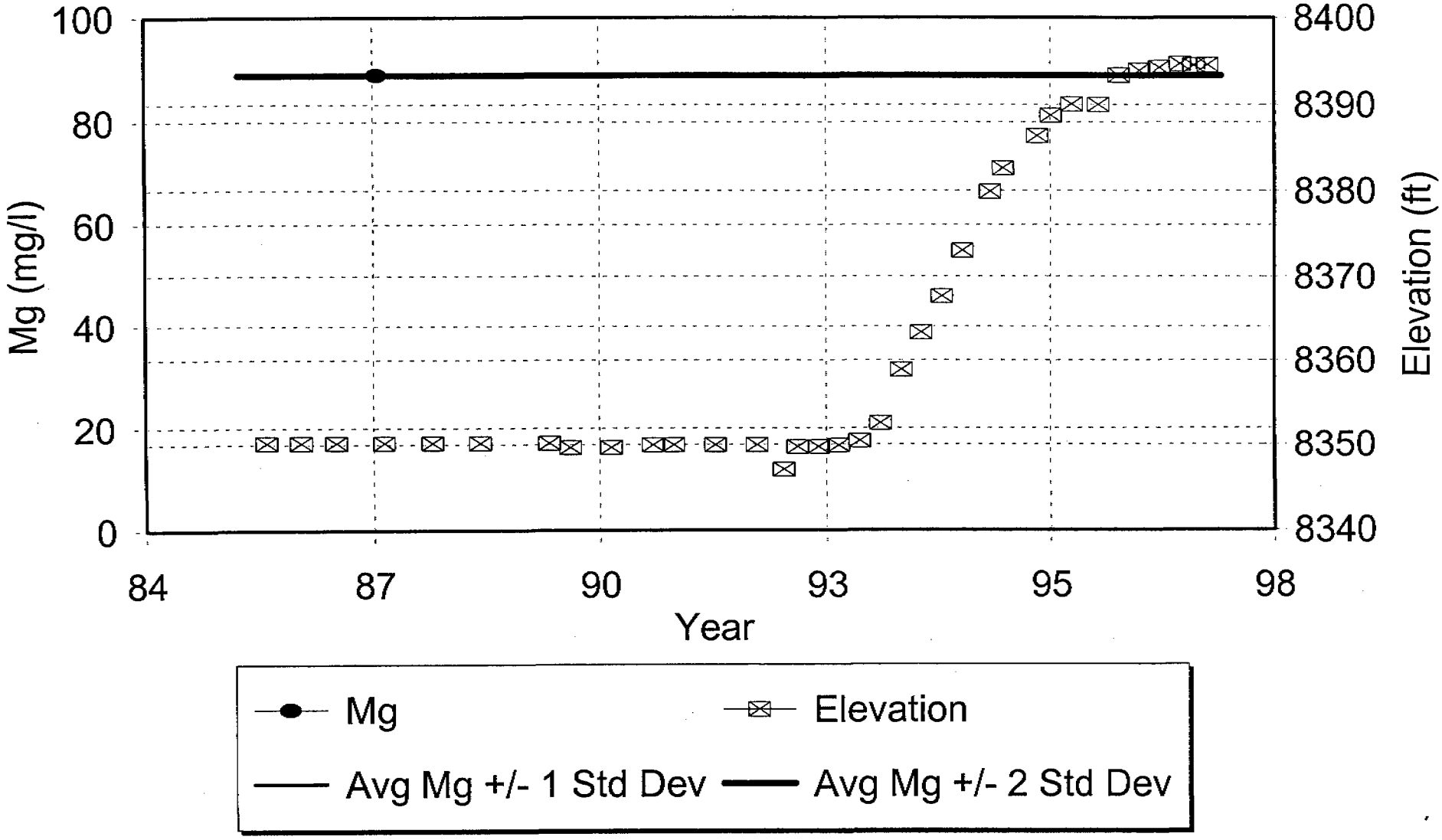
Station P8601TD

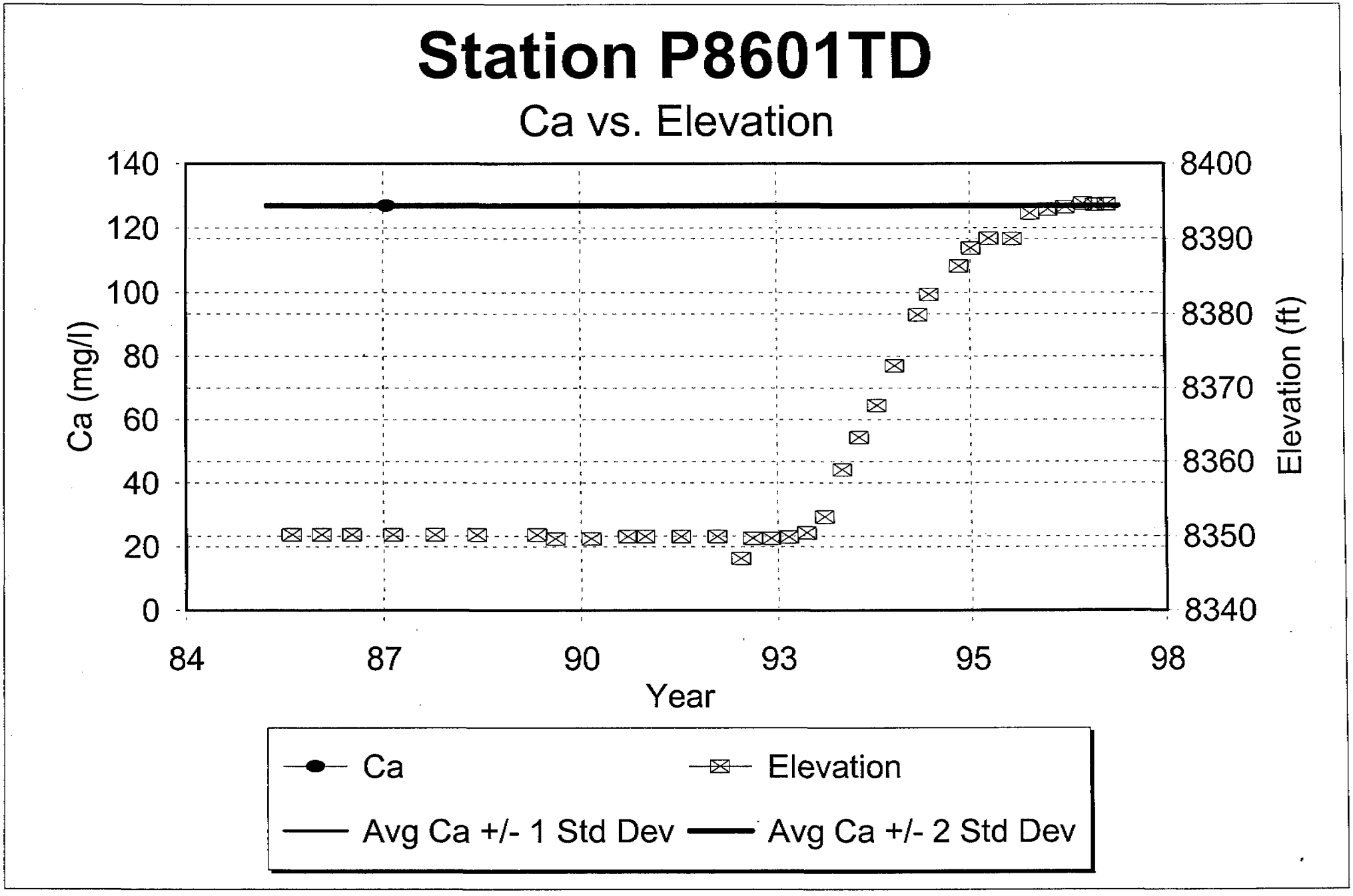
Cl vs. Elevation



Station P8601TD

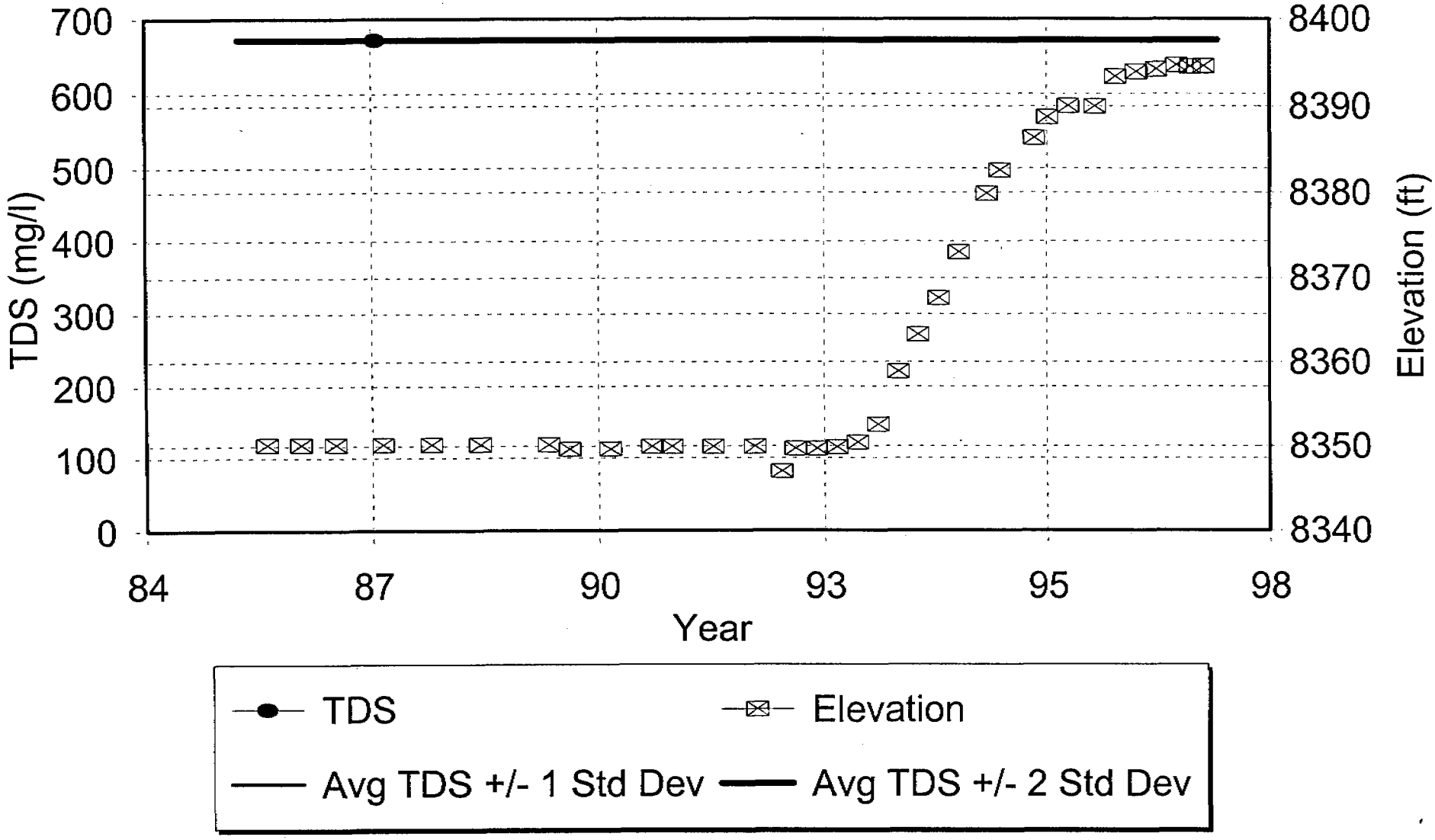
Mg vs. Elevation




Station P8601TD
Ca vs. Elevation
Ca (mg/l)
140
120
100
80
60
40
20
0
Elevation (ft)
8400
8390
8380
8370
8360
8350
8340
84
87
90
93
95
98
Year
Ca
Elevation
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

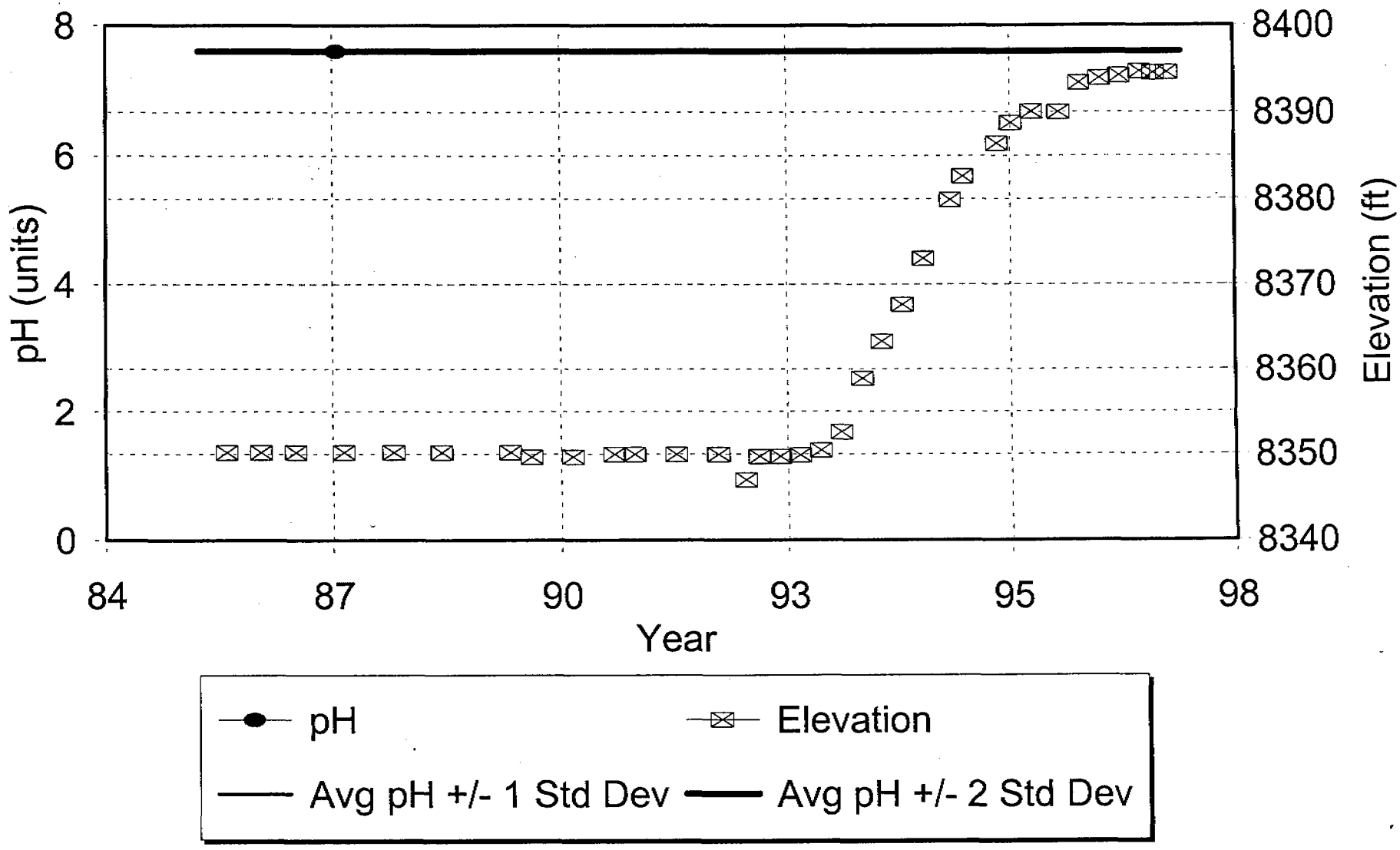
Station P8601TD

TDS vs. Elevation



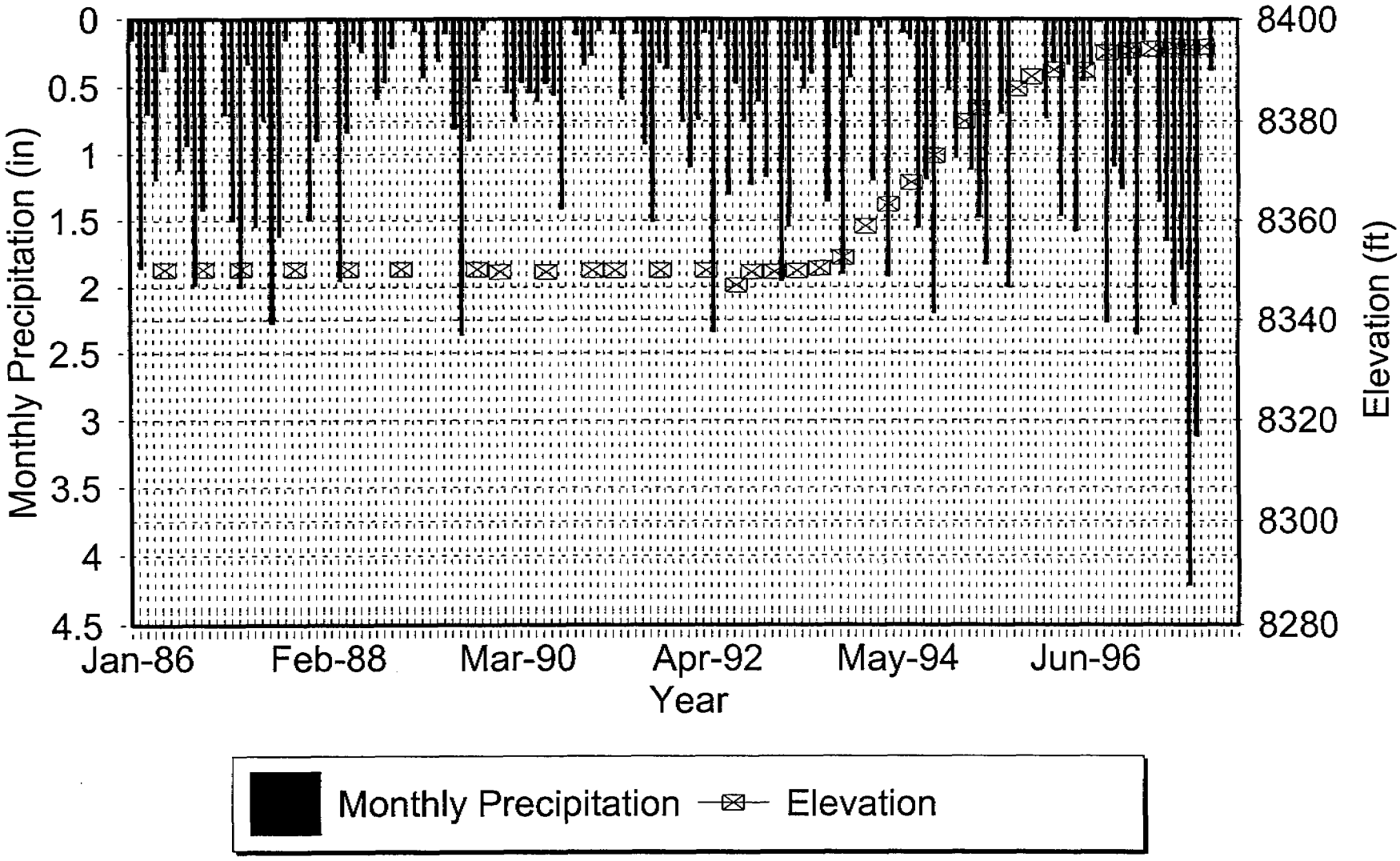
Station P8601TD

pH vs. Elevation



Station P8601TD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P8601TD | Property: Star Point | Location: 250' N 1560' W of SE corn. Sec 7, T15S, R8E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8483

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
Count		35	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1	
Minimum		8347	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	
Maximum		8394.7	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	
Average		8365.6	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	
Standard Deviation		16.759	0	0	0	0	ERR	ERR	0	0	ERR	0	0	0	0	0	0	ERR	0	0	0	
Avg. -1 Std. Dev.		8346.8	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	
Avg. +1 Std. Dev.		8384.4	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	
Avg. -2 Std. Dev.		8328.1	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	
Avg. +2 Std. Dev.		8403.1	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P8601TD | Property: Star Point | Location: 250' N 1560' W of SE com. Sec 7, T15S, R8E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8463

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92	04/15/92	8350																					
May-92																							
Jun-92	06/23/92																						
Jul-92																							
Aug-92	08/15/92	8347																					
Sep-92																							
Oct-92	10/15/92	8349.8																					
Nov-92																							
Dec-92																							
Jan-93	01/15/93	8349.7																					
Feb-93																							
Mar-93																							
Apr-93	04/15/93	8349.9																					
May-93																							
Jun-93																							
Jul-93	07/15/93	8350.5																					
Aug-93																							
Sep-93																							
Oct-93	10/15/93	8352.6																					
Nov-93																							
Dec-93																							
Jan-94		8358.9																					
Feb-94																							
Mar-94																							
Apr-94		8363.3																					
May-94																							
Jun-94																							
Jul-94		8367.6																					
Aug-94																							
Sep-94																							
Oct-94		8373																					
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95		8379.9																					
Mar-95																							
Apr-95		8382.6																					
May-95																							
Jun-95																							
Jul-95																							
Aug-95																							
Sep-95		8386.4																					
Oct-95																							
Nov-95		8388.8																					
Dec-95																							
Jan-96																							
Feb-96	02/27/96	8390.1																					
Mar-96																							
Apr-96																							
May-96																							
Jun-96	06/23/96	8390																					
Jul-96																							
Aug-96																							
Sep-96	09/30/96	8393.4																					
Oct-96																							
Nov-96																							
Dec-96	12/17/96	8393.9																					
Jan-97																							
Feb-97																							
Mar-97	03/13/97	8394.2																					
Apr-97																							
May-97																							
Jun-97	06/12/97	8394.7																					
Jul-97																							
Aug-97	08/21/97	8394.5																					
Sep-97																							
Oct-97		8394.6																					
Nov-97																							
Dec-97																							

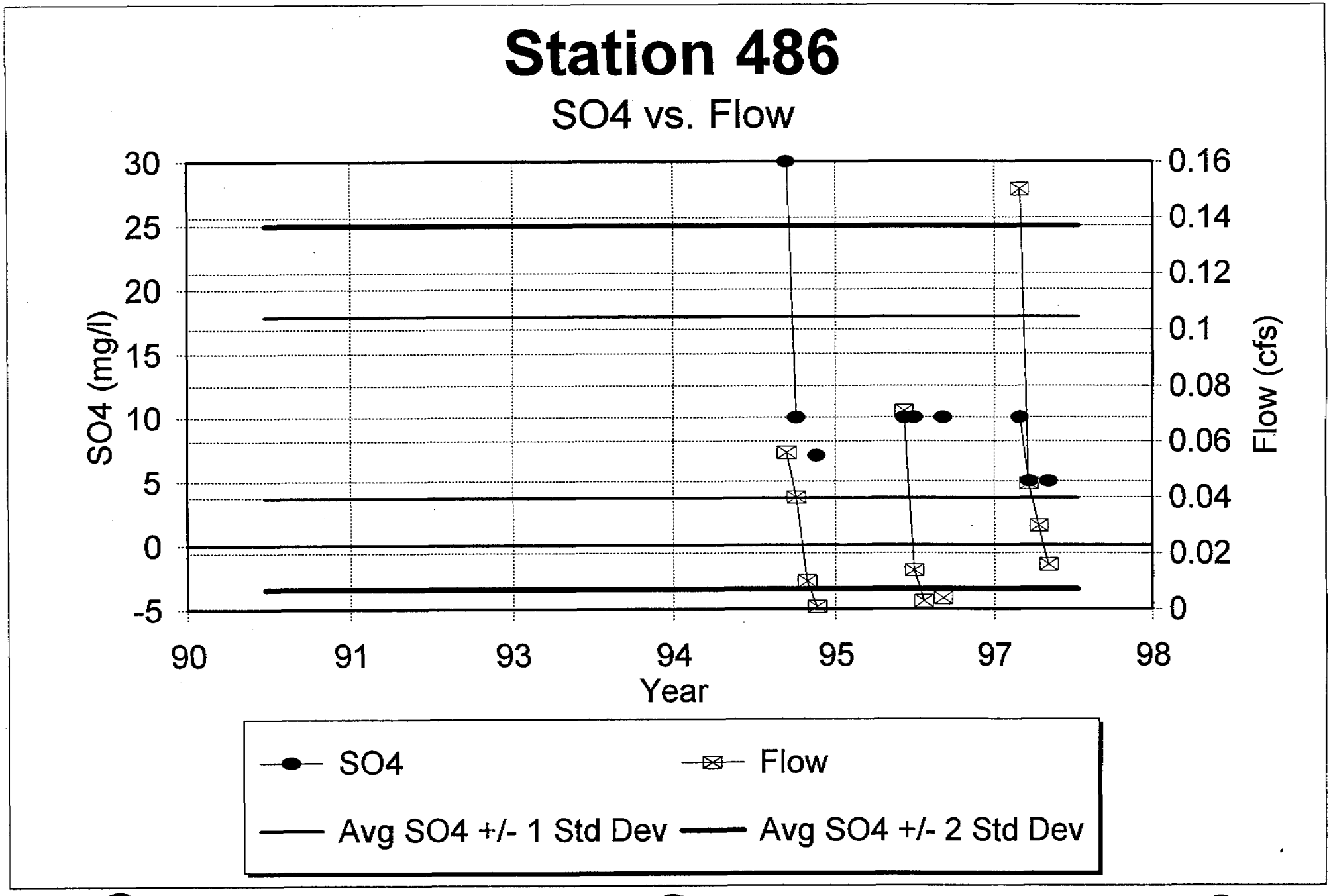
Cyprus Plateau Mining Company - Water Quality Data

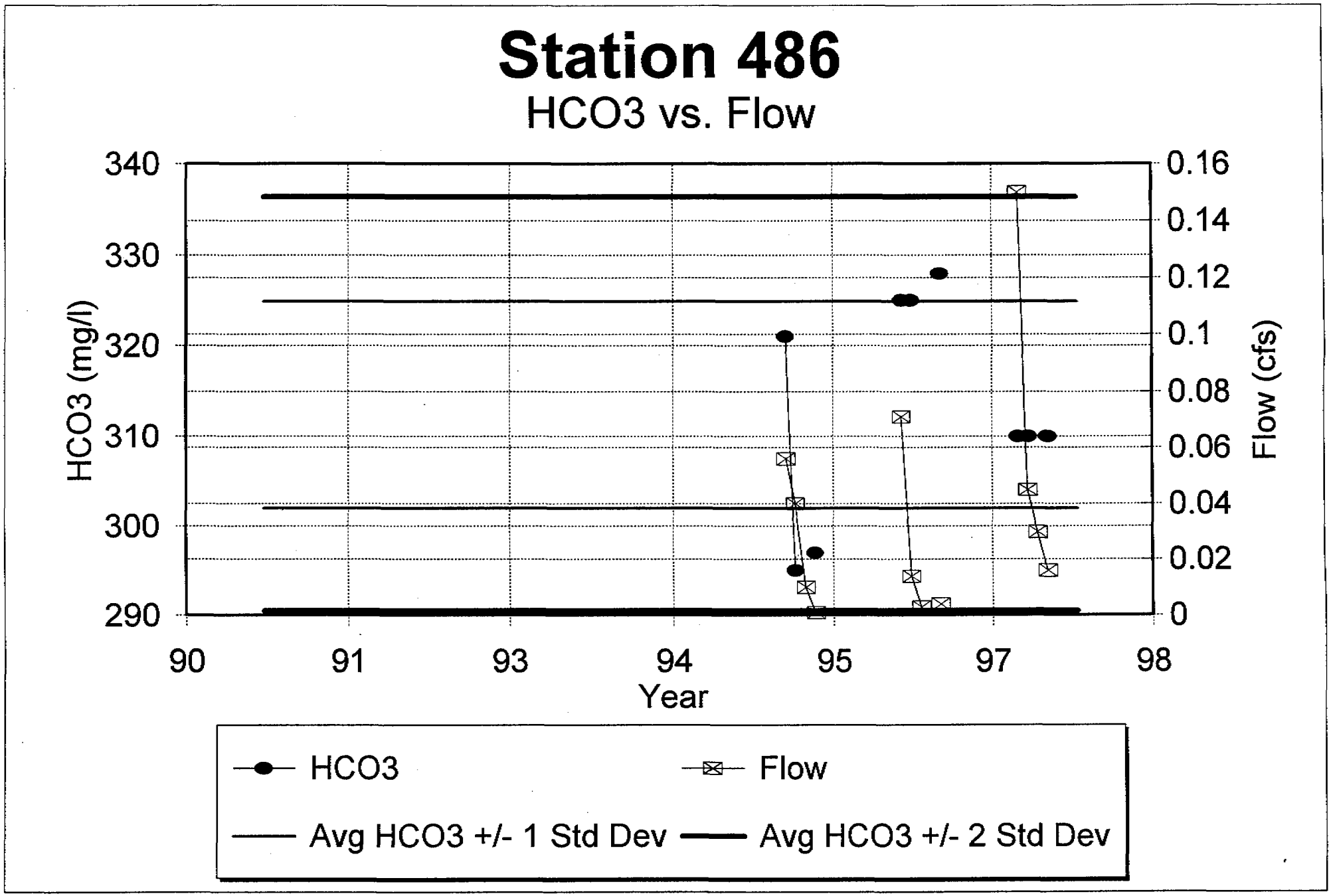
Station: P8601TD | Property: Star Point | Location: 250' N 1560' W of SE corn. Sec 7, T15S, R8E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8483

Print Date: February 27, 1998

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Elev. (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86	05/15/86	8350.2																					
Jun-86																							
Jul-86																							
Aug-86																							
Sep-86																							
Oct-86	10/15/86	8350.2																					
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87	03/15/87	8350.2																					
Apr-87																							
May-87																							
Jun-87																							
Jul-87																							
Aug-87																							
Sep-87	09/24/87		7.6	2200	5	672			662	466		11	222	127	89	6	7		0.15	2.17	0.11		
Oct-87	10/15/87	8350.2																					
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88	05/15/88	8350.2																					
Jun-88																							
Jul-88																							
Aug-88																							
Sep-88																							
Oct-88																							
Nov-88																							
Dec-88	12/15/88	8350.2																					
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89																							
Jul-89																							
Aug-89																							
Sep-89																							
Oct-89	10/15/89	8350.2																					
Nov-89																							
Dec-89																							
Jan-90	01/15/90	8349.7																					
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90																							
Jul-90	07/15/90	8349.7																					
Aug-90																							
Sep-90																							
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91	01/15/91	8350																					
Feb-91																							
Mar-91																							
Apr-91	04/15/91	8350																					
May-91																							
Jun-91																							
Jul-91																							
Aug-91																							
Sep-91																							
Oct-91	10/15/91	8350																					
Nov-91																							
Dec-91																							

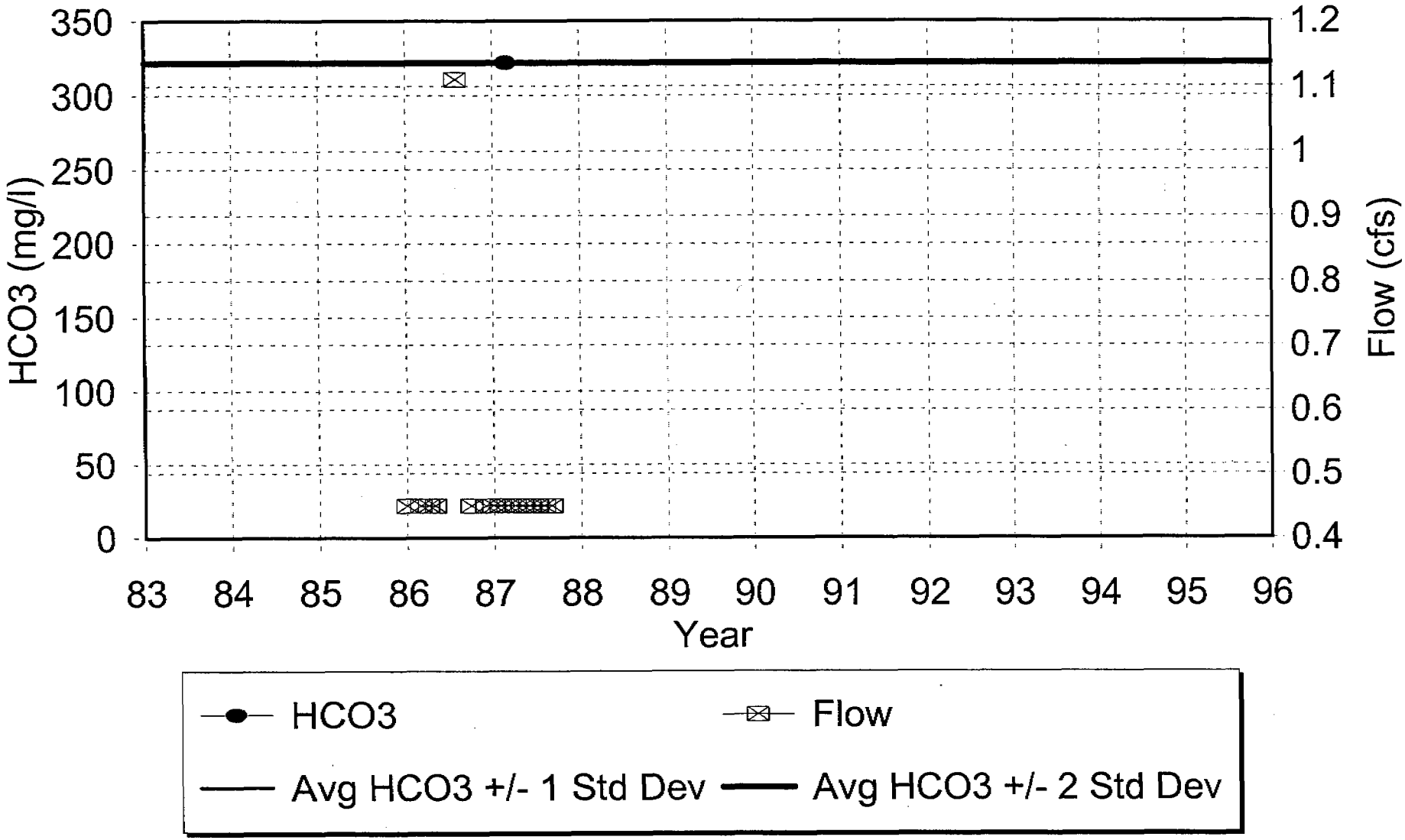
APPENDIX B
WELLS


Station 486
SO4 vs. Flow
SO4 (mg/l)
30
25
20
15
10
5
0
-5
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Flow (cfs)
90
91
93
94
95
97
98
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev


Station 486
HCO3 vs. Flow
340
330
320
310
300
290
HCO3 (mg/l)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Flow (cfs)
90
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

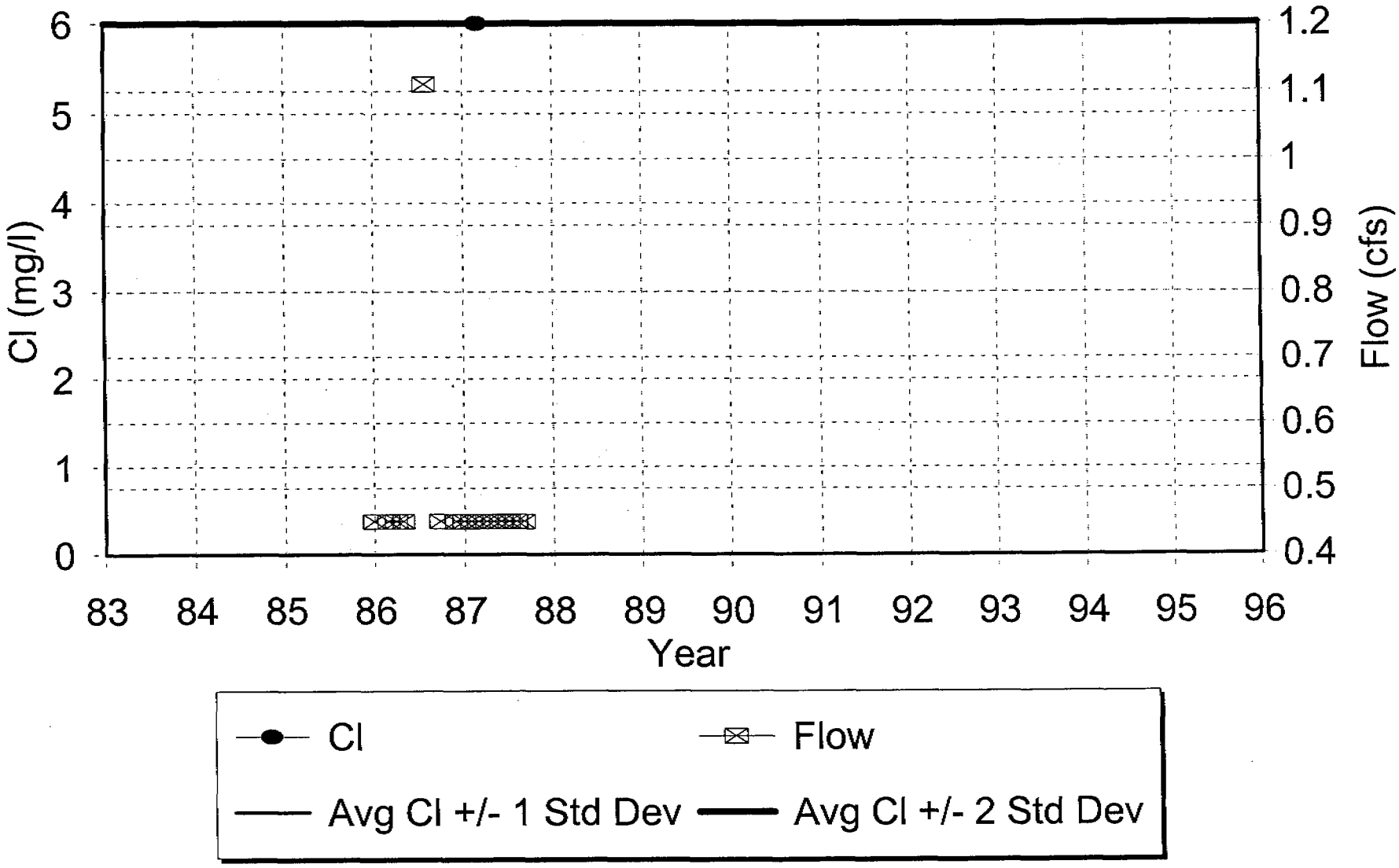
Station Mudwater Discharge

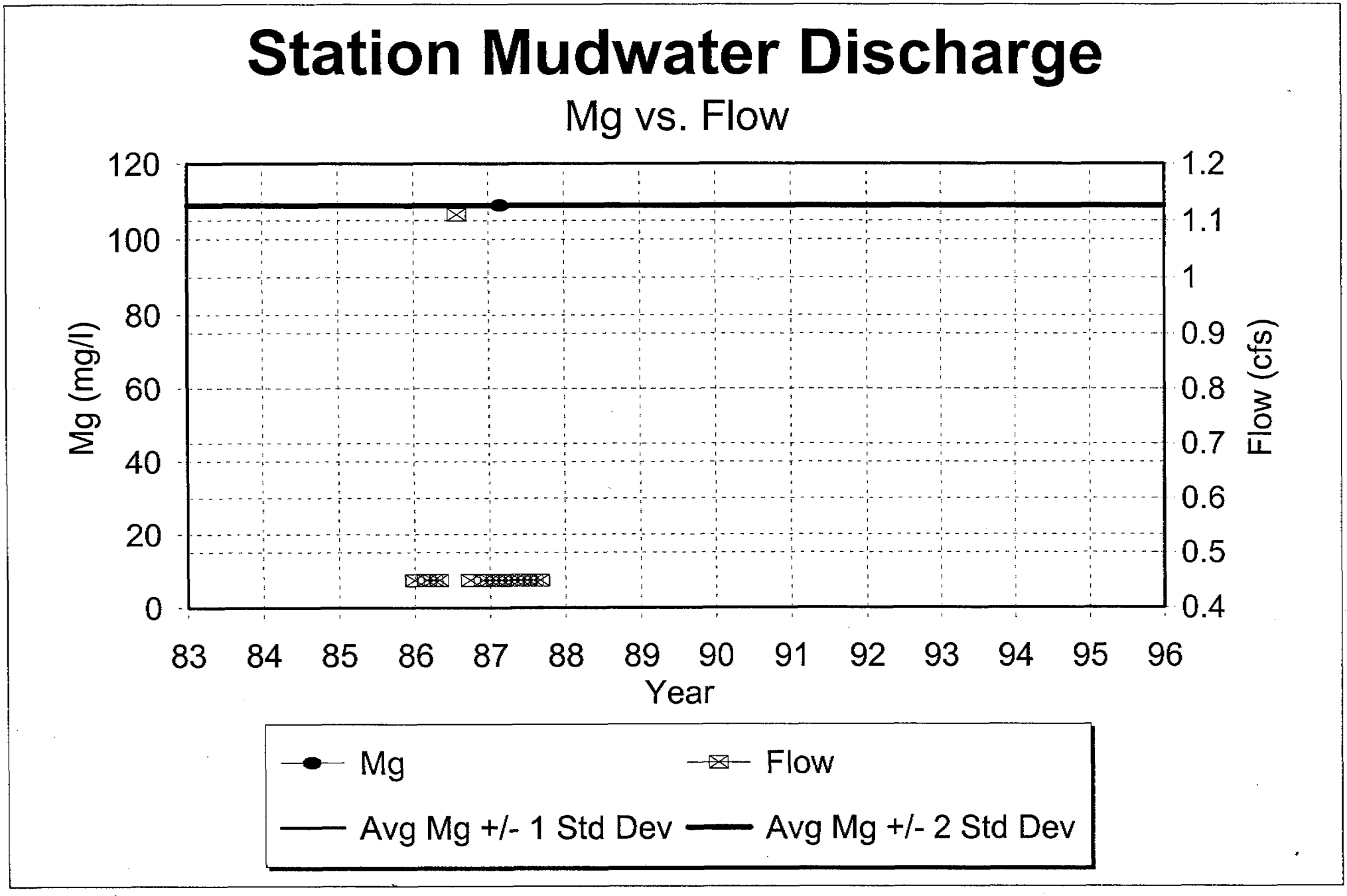
HCO3 vs. Flow



Station Mudwater Discharge

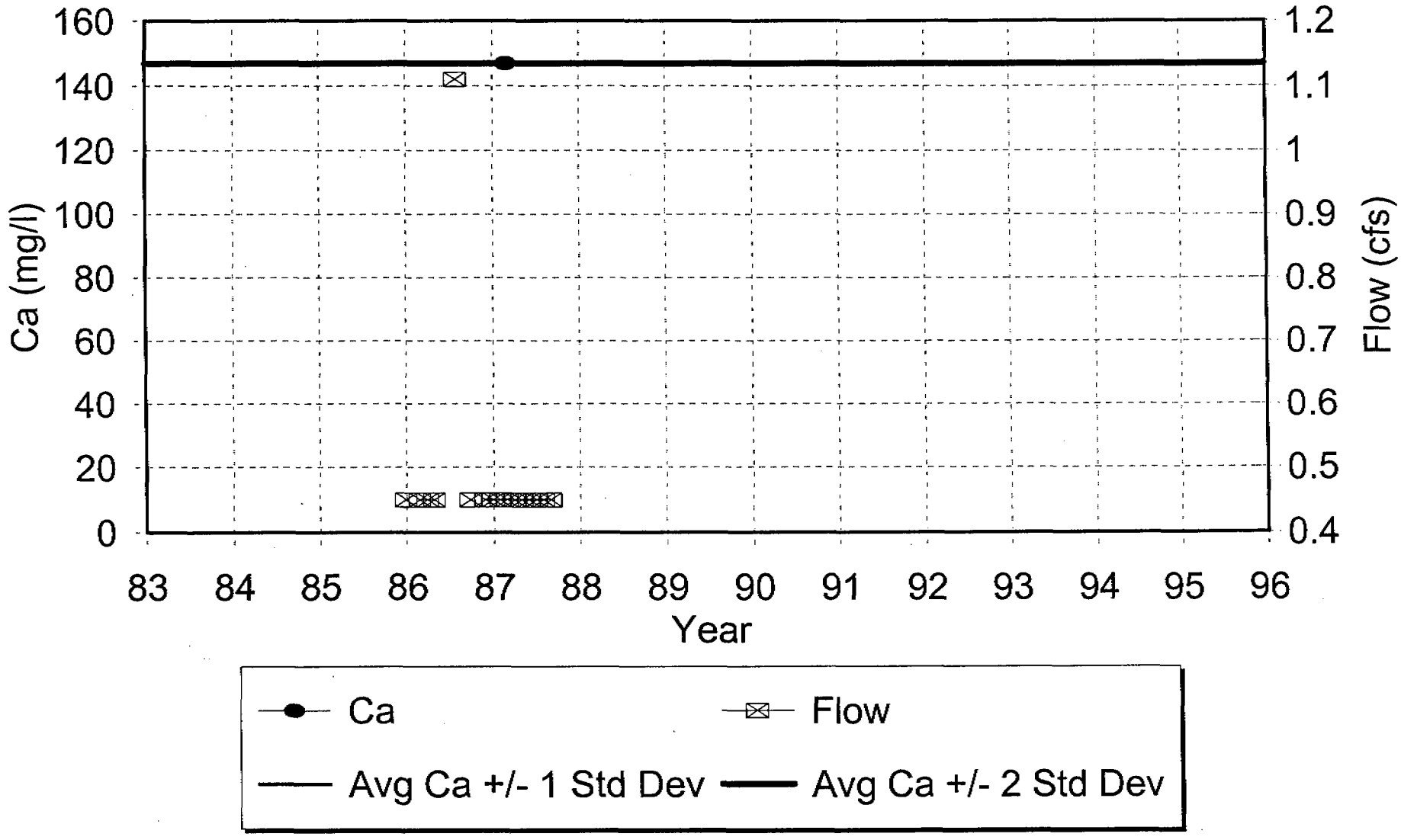
Cl vs. Flow




Station Mudwater Discharge
Mg vs. Flow
Mg (mg/l)
120
100
80
60
40
20
0
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

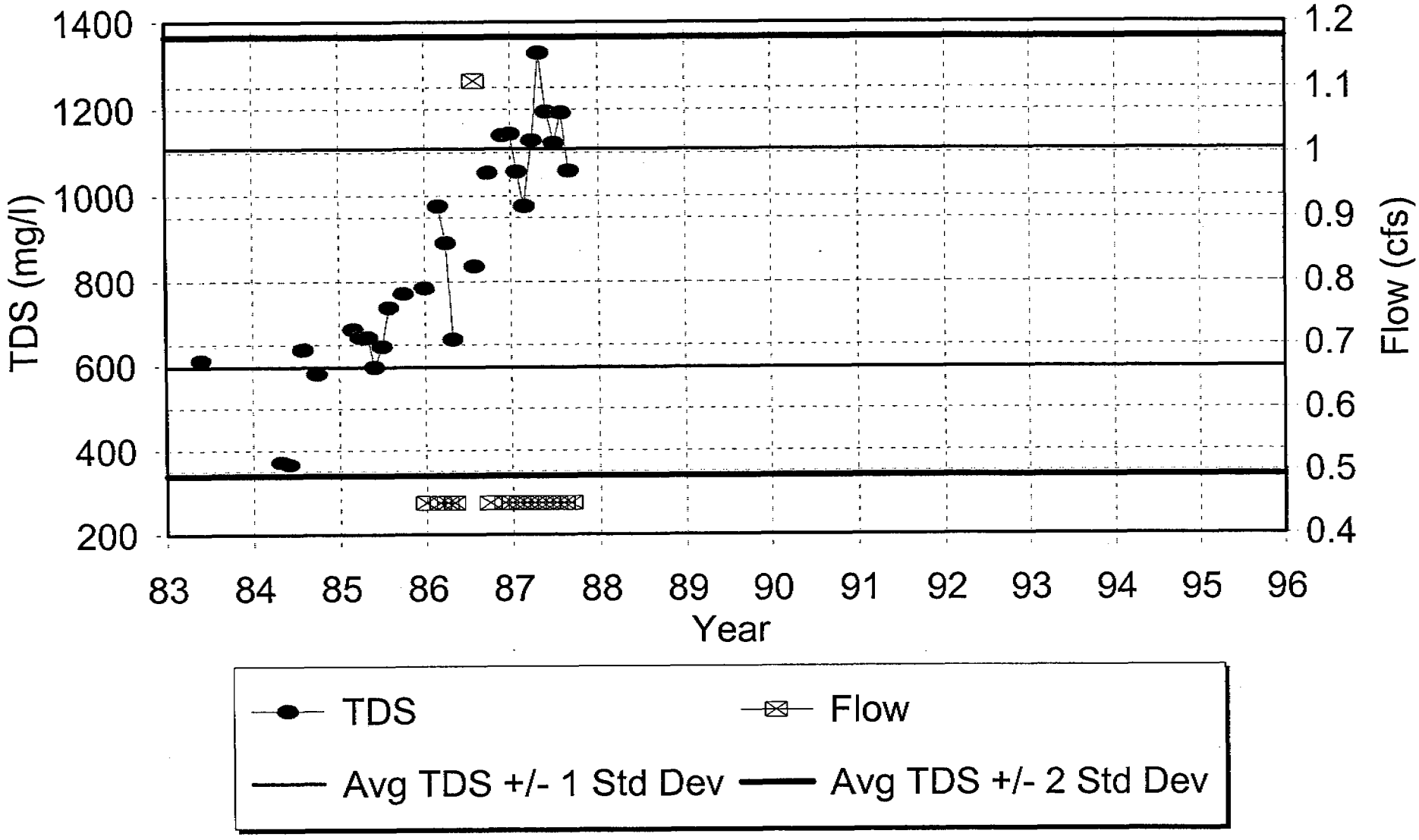
Station Mudwater Discharge

Ca vs. Flow



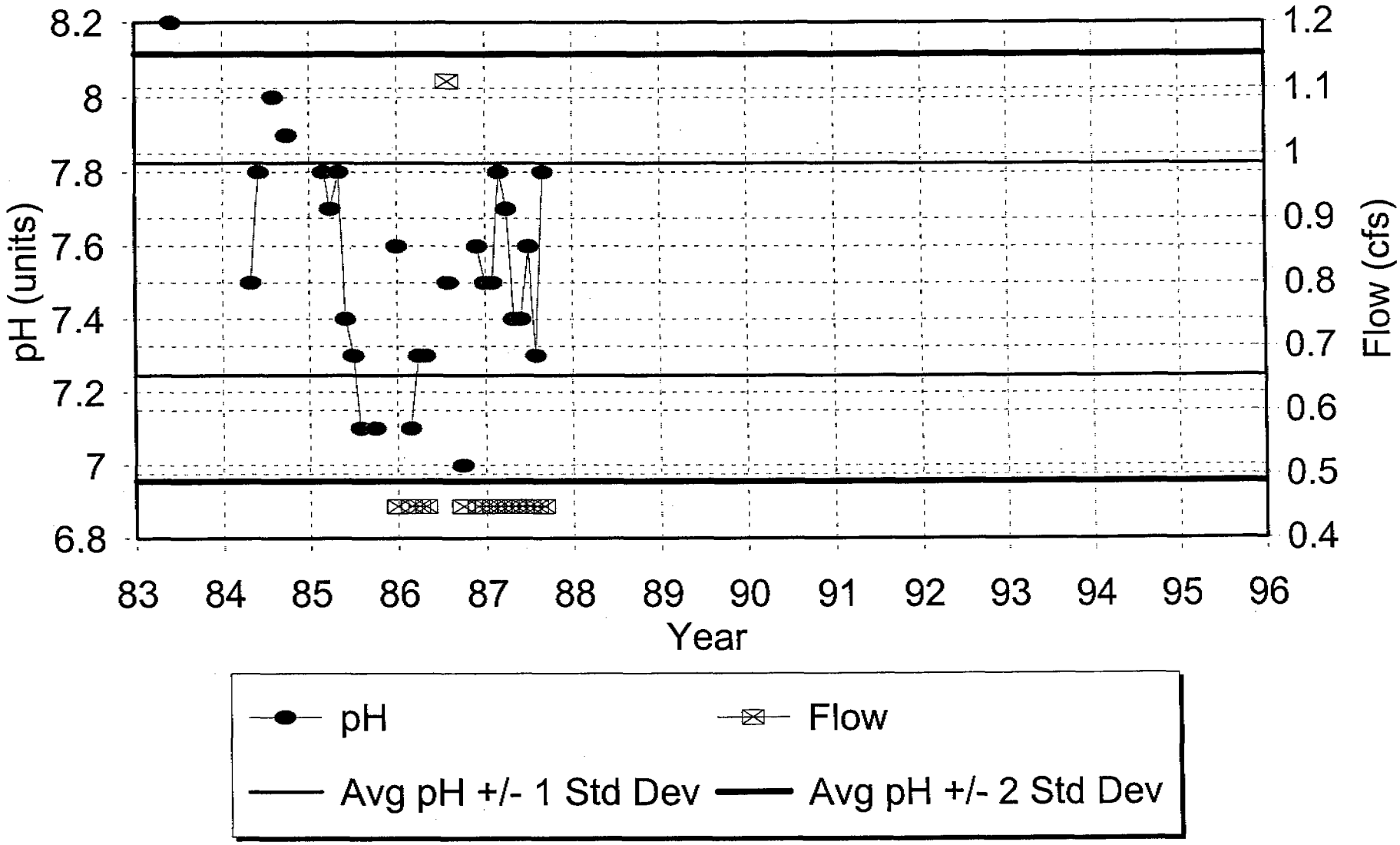
Station Mudwater Discharge

TDS vs. Flow



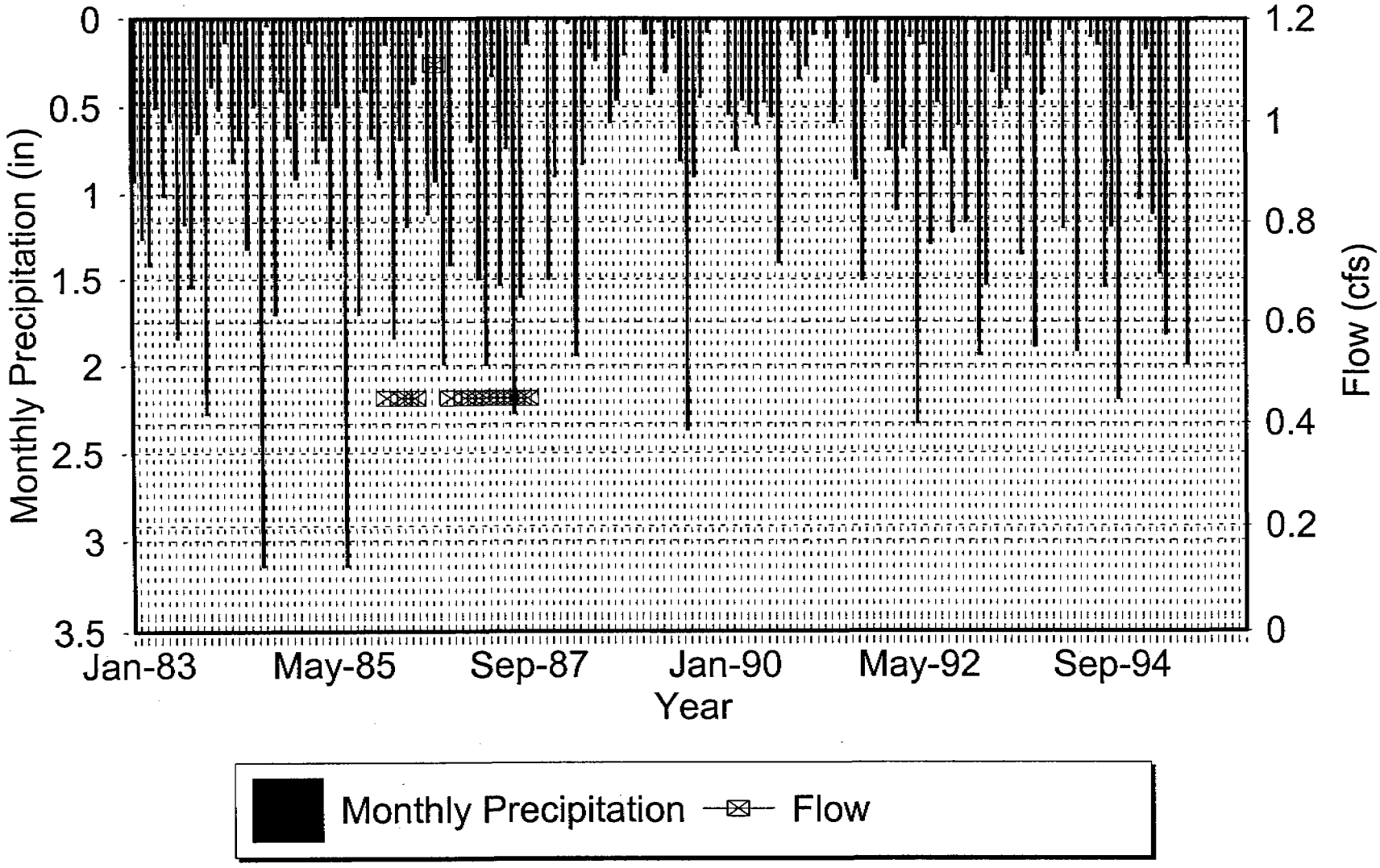
Station Mudwater Discharge

pH vs. Flow



Station Mudwater Discharge

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 3, 1998

Station: NSMUD | Property: Star Point | Location: 1625' S 2000' W of NE corn. Sec 6, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: 6600

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-95																						
Feb-95	02/27/95																					
Mar-95																						
Apr-95	04/26/95																					
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95																					
Sep-95																						
Oct-95																						
Nov-95	11/28/95																					
Dec-95																						
Jan-96		*Discharge Discontinued*																				
END DATA																						
Count		17	26	1	0	28	25	0	0	1	0	1	1	1	1	1	1	0	1	28	16	
Minimum		0	7	1450	ERR	366 <	0.5	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.02 <	0.01	
Maximum		1.11	8.2	1450	ERR	1330 <	19	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.82 <	0.03	
Average		0.4624	7.5357	1450	ERR	853.39 <	4.5	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.1371 <	0.0125	
Standard Deviation		0.1933	0.2694	0	ERR	256.32 <	3.5605	ERR	ERR	0	ERR	0	0	0	0	0	0	ERR	0 <	0.1579 <	0.0056	
Avg. -1 Std. Dev.		0.269	7.2464	1450	ERR	597.08 <	0.9195	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	-0.021 <	0.0069	
Avg. +1 Std. Dev.		0.6557	7.8251	1450	ERR	1109.7 <	8.0805	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.295 <	0.0181	
Avg. -2 Std. Dev.		0.0757	6.957	1450	ERR	340.76 <	-2.661	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	-0.179 <	0.0013	
Avg. +2 Std. Dev.		0.849	8.1144	1450	ERR	1366 <	11.661	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.4529 <	0.0237	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 3, 1998

Station: NSMUD | Property: Star Point | Location: 1625' S 2000' W of NE corn. Sec 8, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: 8600

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-89	01/25/89																					
Feb-89																						
Mar-89																						
Apr-89	04/28/89																					
May-89																						
Jun-89																						
Jul-89	07/12/89																					
Aug-89																						
Sep-89																						
Oct-89	10/25/89																					
Nov-89																						
Dec-89																						
Jan-90	01/16/90																					
Feb-90																						
Mar-90																						
Apr-90	04/18/90																					
May-90																						
Jun-90																						
Jul-90	07/02/90																					
Aug-90																						
Sep-90																						
Oct-90	10/24/90																					
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/01/92																					
Jul-92																						
Aug-92	08/31/92																					
Sep-92																						
Oct-92	10/31/92																					
Nov-92																						
Dec-92	12/27/92																					
Jan-93	01/27/93																					
Feb-93																						
Mar-93																						
Apr-93	04/30/93																					
May-93																						
Jun-93																						
Jul-93	07/21/93																					
Aug-93																						
Sep-93																						
Oct-93	10/19/93																					
Nov-93																						
Dec-93																						
Jan-94	01/26/94																					
Feb-94																						
Mar-94																						
Apr-94	04/25/94																					
May-94																						
Jun-94																						
Jul-94	07/20/94																					
Aug-94																						
Sep-94																						
Oct-94	10/27/94																					
Nov-94																						
Dec-94																						

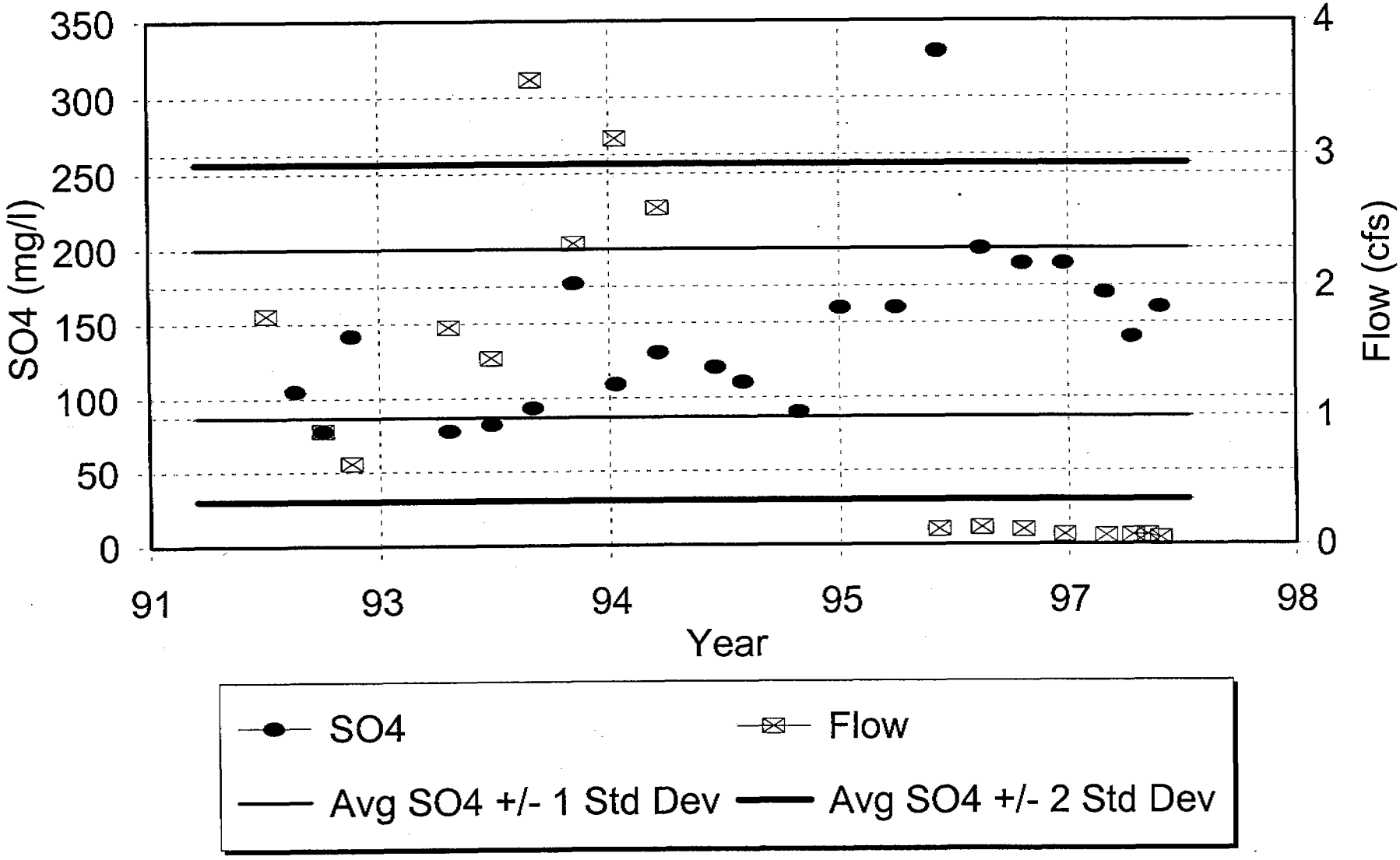
Cyprus Plateau Mining Company - Water Quality Data

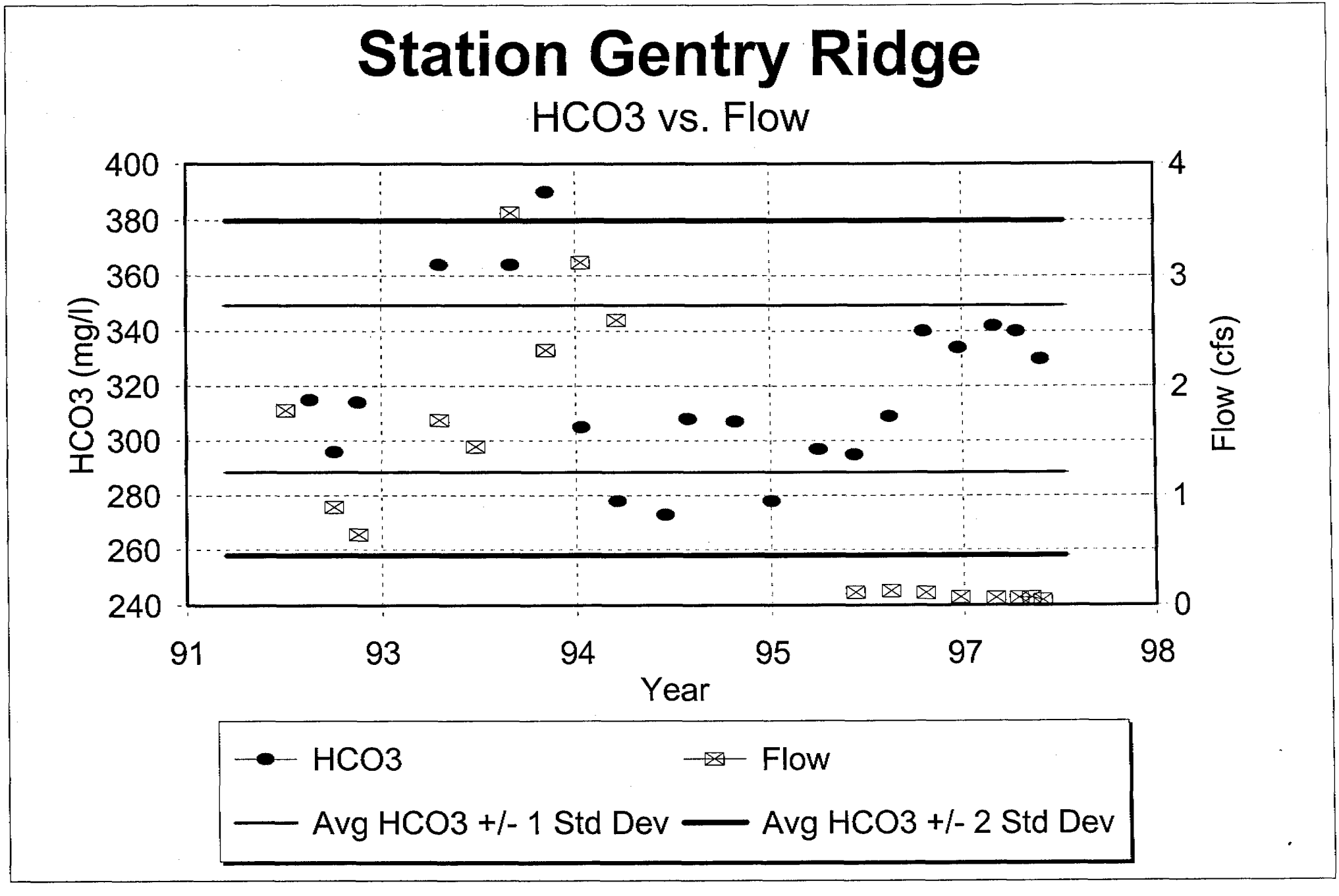
Station: NSMUD | Property: Star Point | Location: 1625' S 2000' W of NE com. Sec 8, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: March 3, 1998 | Elevation: 8600

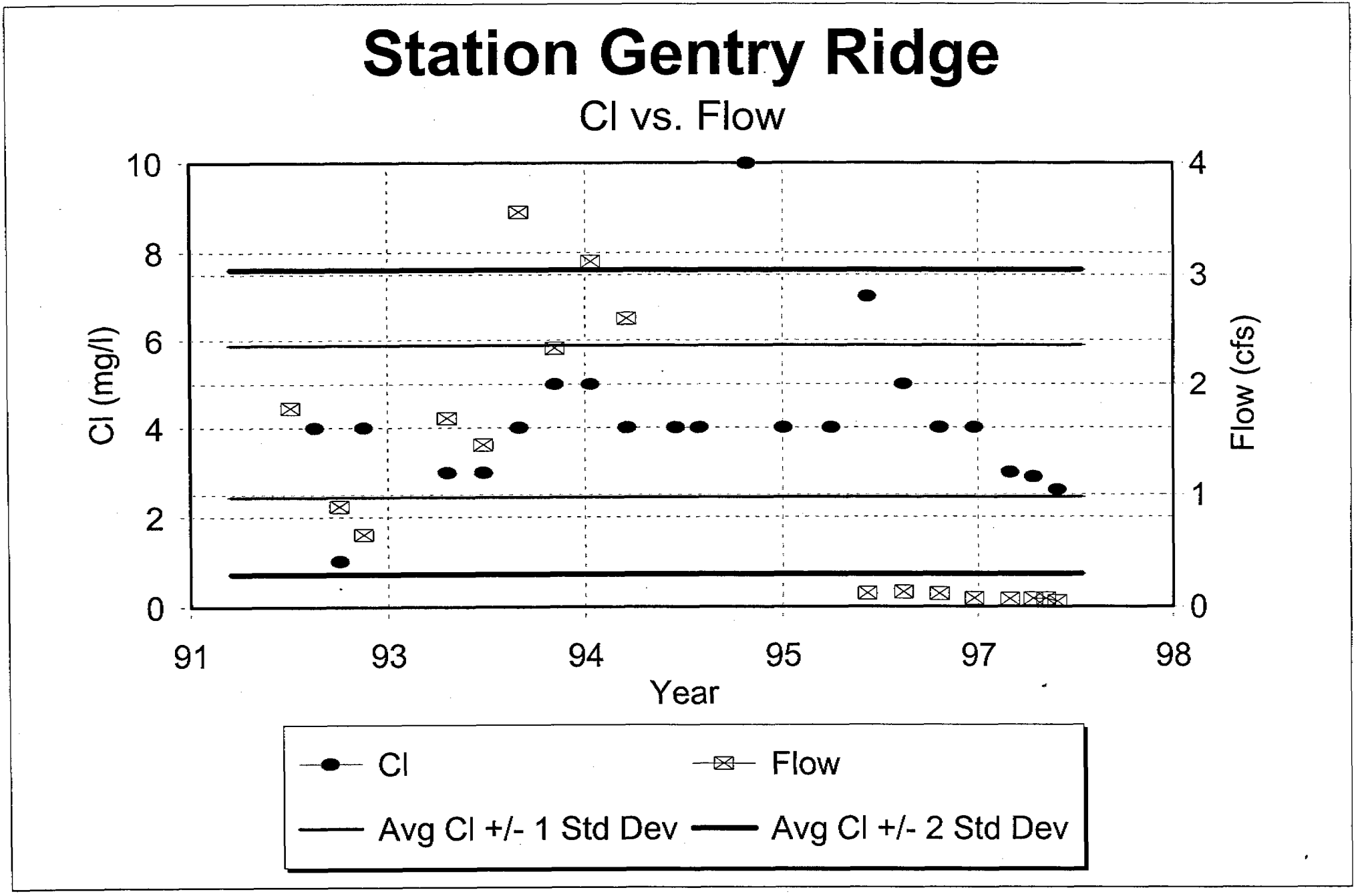
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-83																						
Feb-83																						
Mar-83																						
Apr-83																						
May-83																						
Jun-83	06/27/83		8.2			613	19													0.82		
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83																						
Nov-83																						
Dec-83																						
Jan-84																						
Feb-84																						
Mar-84																						
Apr-84																						
May-84	05/30/84		7.5			372	5.5													0.37	0.02	
Jun-84	06/05/84		7.8			366	3													0.14 <	0.01	
Jul-84																						
Aug-84	08/21/84		8			639	8													0.06 <	0.01	
Sep-84																						
Oct-84	10/18/84		7.9			582	2													0.14 <	0.01	
Nov-84																						
Dec-84																						
Jan-85																						
Feb-85																						
Mar-85	03/22/85		7.8			586	5													0.09	0.02	
Apr-85	04/02/85		7.7			669	3													0.15 <	0.01	
May-85	05/07/85		7.8			667	1													0.2 <	0.01	
Jun-85	06/27/85		7.4			598	4													0.32	0.03	
Jul-85	07/24/85		7.3			646	6													0.26 <	0.01	
Aug-85	08/23/85		7.1			738	6													0.08 <	0.01	
Sep-85																						
Oct-85	10/31/85		7.1			772	4													0.06 <	0.01	
Nov-85																						
Dec-85																						
Jan-86	01/22/86	0.45	7.6			785	4													0.05	0.01	
Feb-86																						
Mar-86	03/27/86	0.45	7.1			977	4												<	0.05	0.01	
Apr-86	04/30/86	0.45	7.3			891	3												<	0.05		
May-86	05/27/86	0.45	7.3			663														0.05		
Jun-86																						
Jul-86																						
Aug-86	08/07/86	1.11	7.5			837 <	0.5												<	0.05 <	0.01	
Sep-86																						
Oct-86	10/13/86	0.45	7			1053 <	0.5												<	0.05 <	0.01	
Nov-86																						
Dec-86	12/10/86	0.45	7.6			1140 <	5													0.1		
Jan-87	01/29/87	0.45	7.5			1144 <	2													0.12		
Feb-87	02/24/87	0.45	7.5			1056 <	5													0.1		
Mar-87	03/18/87	0.45	7.8	1450		977				322		6	540	147	109	10	7		0.09	0.22	0.01	
Apr-87	04/30/87	0.45	7.7			1128													<	0.05		
May-87	05/19/87	0.45	7.4			1330	4													0.05		
Jun-87	06/08/87	0.45	7.4			1194	2													0.03		
Jul-87	07/26/86	0.45	7.6			1122	6												<	0.02		
Aug-87	08/12/86	0.45	7.3			1192 <	2													0.03		
Sep-87	09/25/87	0.45	7.8			1058	8													0.13		
Oct-87																						
Nov-87																						
Dec-87	12/16/87																					
Jan-88																						
Feb-88																						
Mar-88	03/23/88																					
Apr-88	04/15/88																					
May-88																						
Jun-88																						
Jul-88	07/27/88																					
Aug-88																						
Sep-88																						
Oct-88	10/27/88																					
Nov-88																						
Dec-88																						

Station Gentry Ridge

SO4 vs. Flow

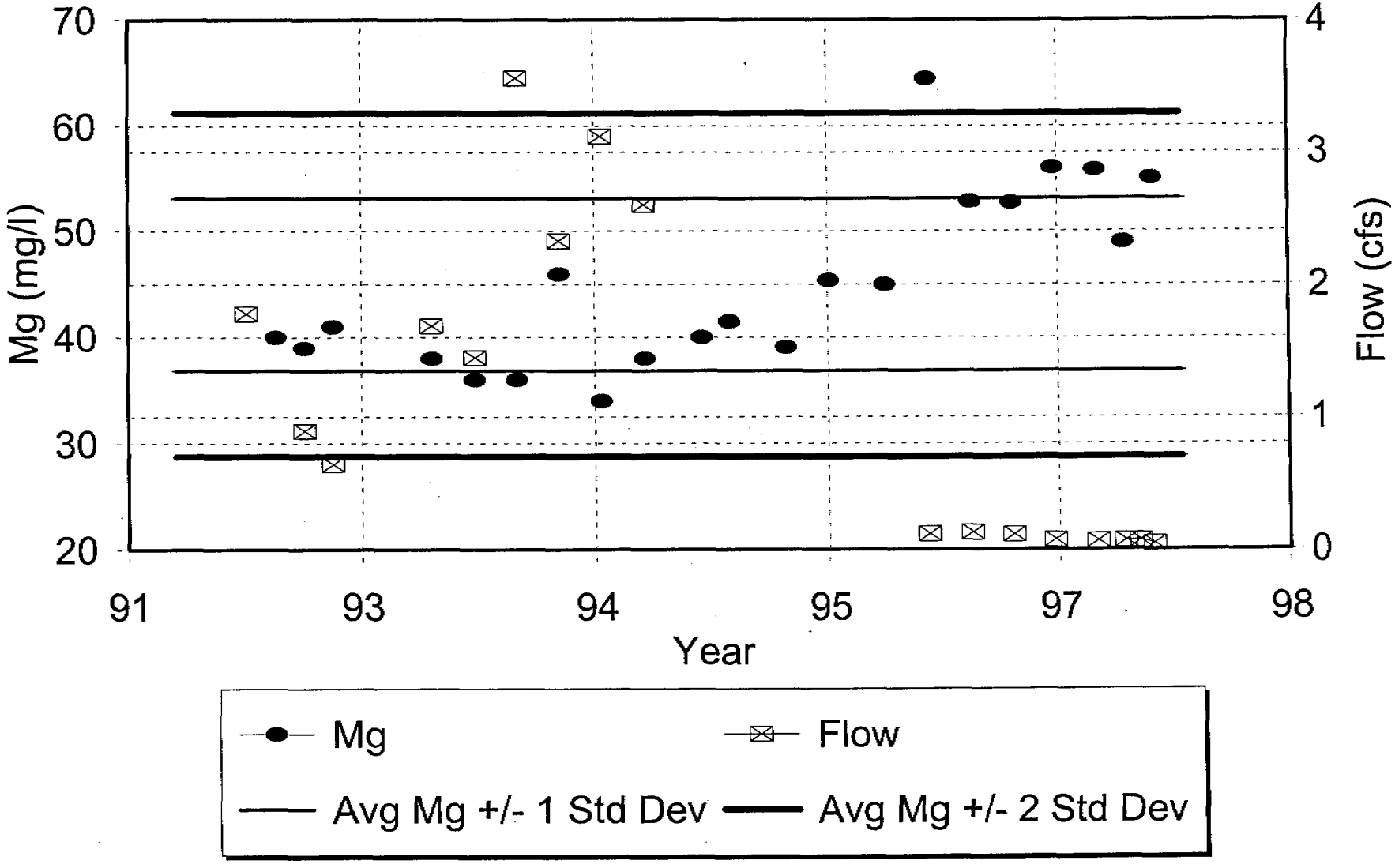


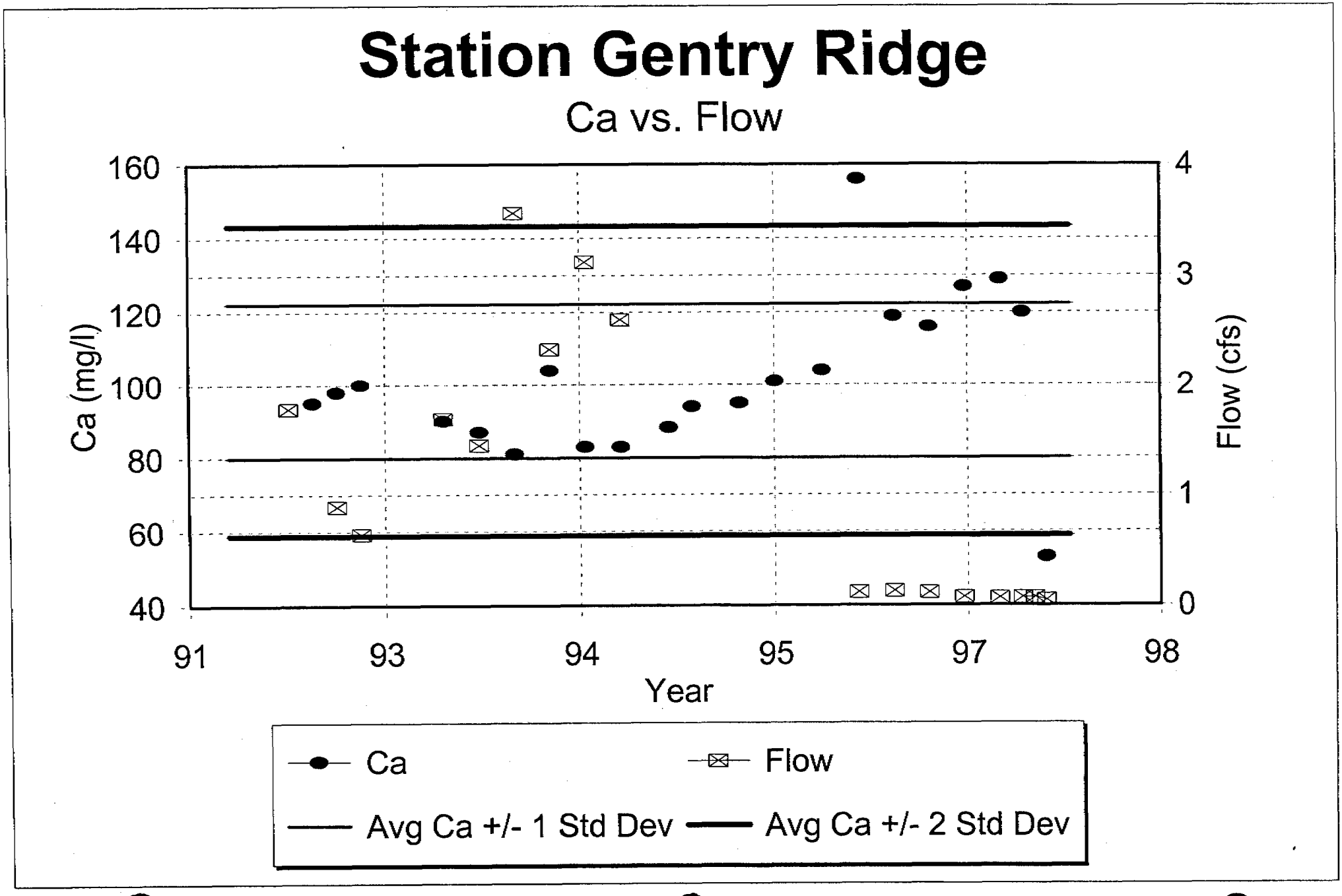

Station Gentry Ridge
HCO3 vs. Flow
HCO3 (mg/l)
400
380
360
340
320
300
280
260
240
Flow (cfs)
4
3
2
1
0
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station Gentry Ridge
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
10
8
6
4
2
0
4
3
2
1
0
91
93
94
95
97
98
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

Station Gentry Ridge

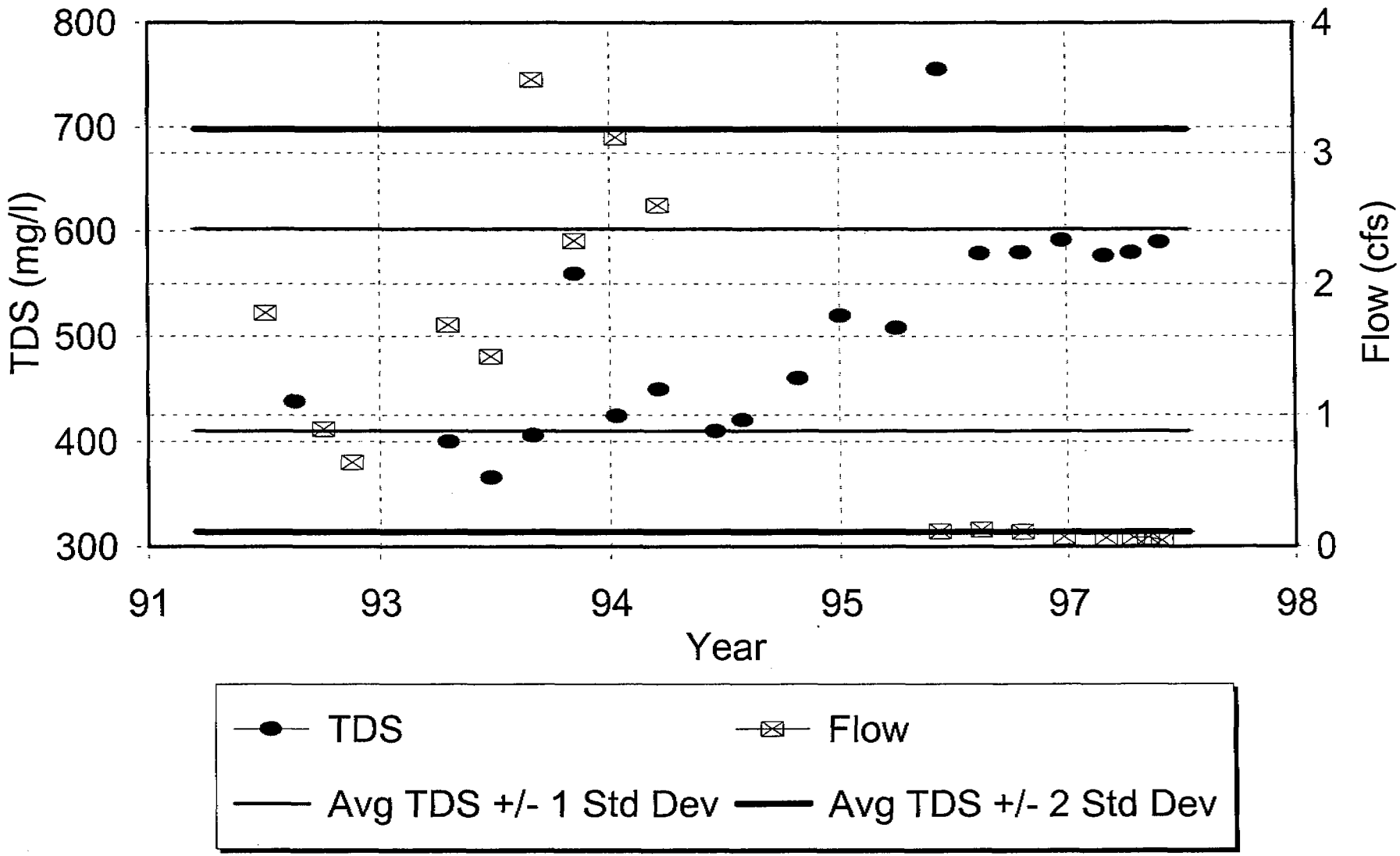
Mg vs. Flow

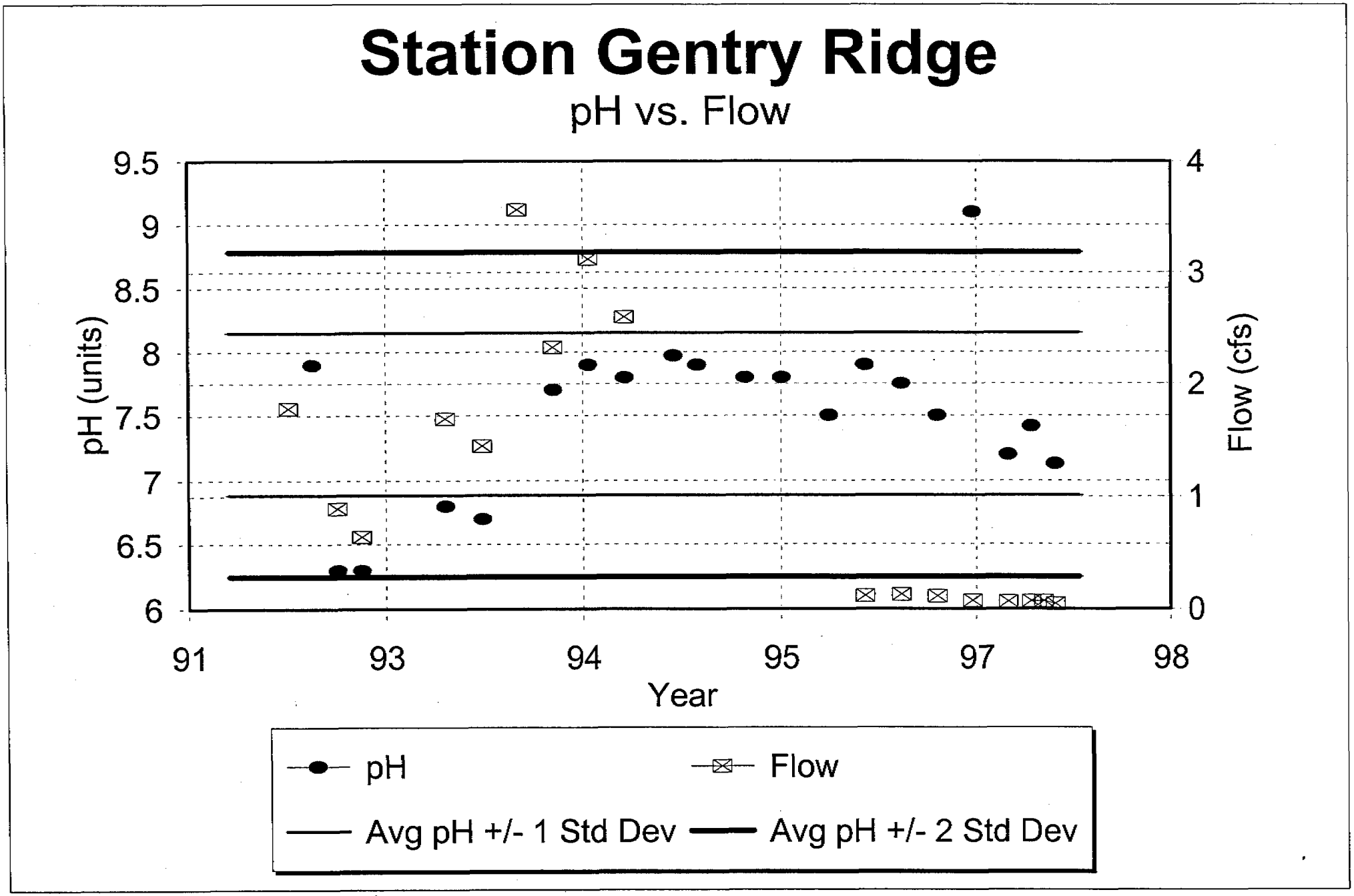



Station Gentry Ridge
Ca vs. Flow
Ca (mg/l)
160
140
120
100
80
60
40
Flow (cfs)
4
3
2
1
0
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

Station Gentry Ridge

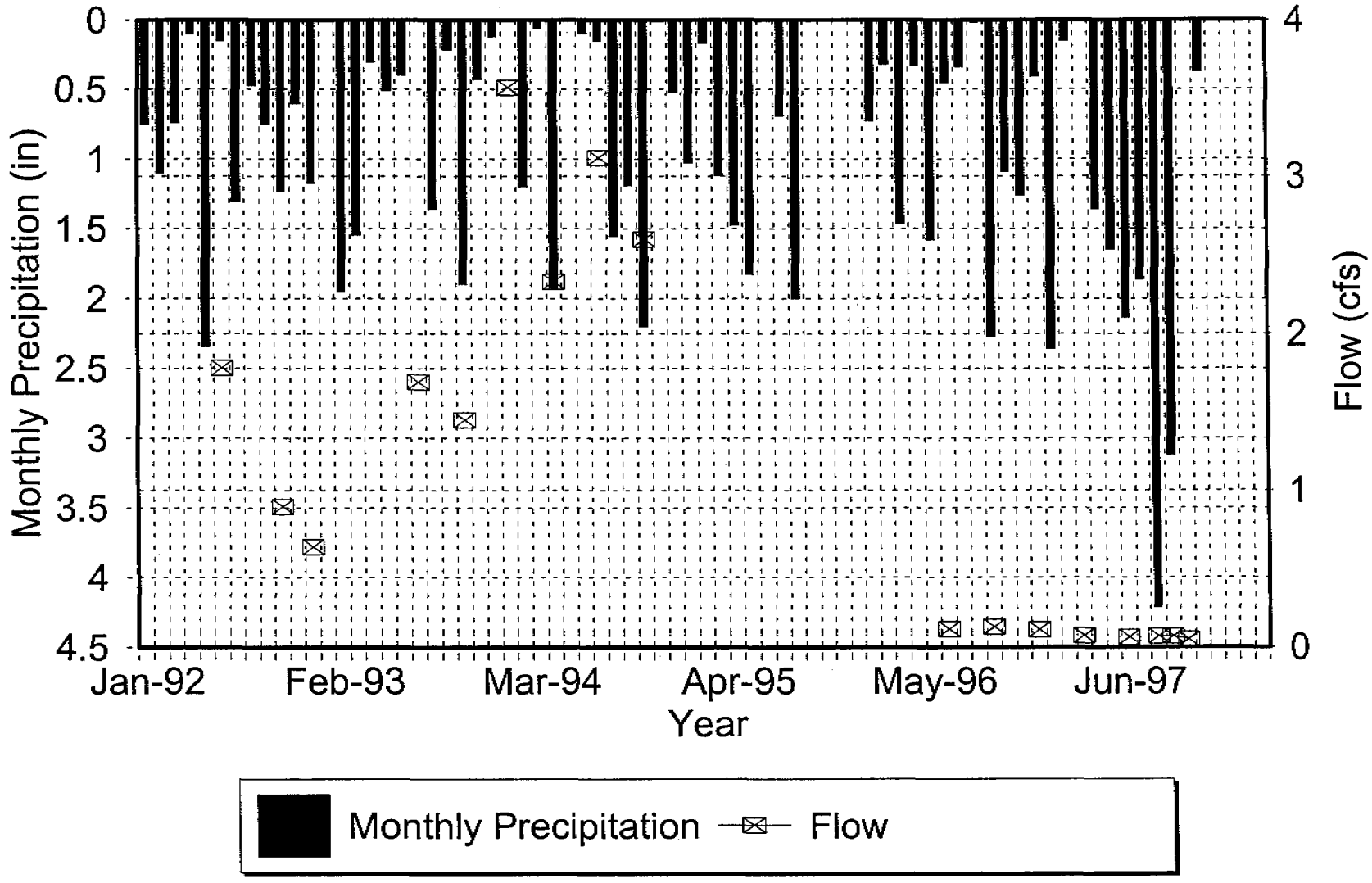
TDS vs. Flow




Station Gentry Ridge
pH vs. Flow
pH (units)
9.5
9
8.5
8
7.5
7
6.5
6
Flow (cfs)
4
3
2
1
0
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station Gentry Ridge

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Station: GENTRID | Property: Star Point | Location: 440' N 1125' E of SW com. Sec 7, T15S, R6E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: March 3, 1998 | Elevation: About 8400

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
Count		17	20	20	19	19	3	0	21	20	21	21	21	21	21	21	21	12	21	18	21	
Minimum		0.047	6.3	6.3	6.9	366 <	2	ERR	347	273 <	0 <	1	78	53	34	2	3	-13 <	0.0001 <	0.05 <	0	
Maximum		3.565	9.1	1370	14	756 <	140	ERR	655	390 <	10 <	10	330	156	64.5	10.5	11.2	4.8 <	1.12 <	5.08 <	0.1	
Average		1.1027	7.5185	741.42	11.49	506.11 <	48.667	ERR	437.67	316.95 <	2.5238 <	4.1667	143.52	101.1	44.99	4.8714	6.381	0.1583 <	0.1419 <	1.3761 <	0.0469	
Standard Deviation		1.1719	0.6336	284.68	2.4597	96.091 <	64.588	ERR	79.063	30.428 <	3.2311 <	1.7264	56.593	21.129	8.1218	2.1765	2.2984	4.362 <	0.2805 <	1.7693 <	0.036	
Avg. -1 Std. Dev.		-0.069	6.8849	456.73	9.0303	410.01 <	-15.92	ERR	358.6	288.52 <	-0.707 <	2.4403	86.93	79.976	36.869	2.6949	4.0826	-4.204 <	-0.139 <	-0.413 <	0.0109	
Avg. +1 Std. Dev.		2.2746	8.1521	1026.1	13.95	602.2 <	113.25	ERR	516.73	349.38 <	5.7549 <	5.893	200.12	122.23	53.112	7.048	8.6793	4.5204 <	0.4224 <	3.1654 <	0.0828	
Avg. -2 Std. Dev.		-1.241	6.2512	172.05	6.5706	313.92 <	-80.51	ERR	279.54	258.09 <	-3.938 <	0.7139	30.337	58.846	28.747	0.5184	1.7842	-8.566 <	-0.419 <	-2.203 <	-0.025	
Avg. +2 Std. Dev.		3.4465	8.7858	1310.8	16.409	698.29 <	177.84	ERR	595.79	379.81 <	8.986 <	7.6194	256.71	143.36	61.234	9.2245	10.978	8.8824 <	0.7029 <	4.9548 <	0.1188	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

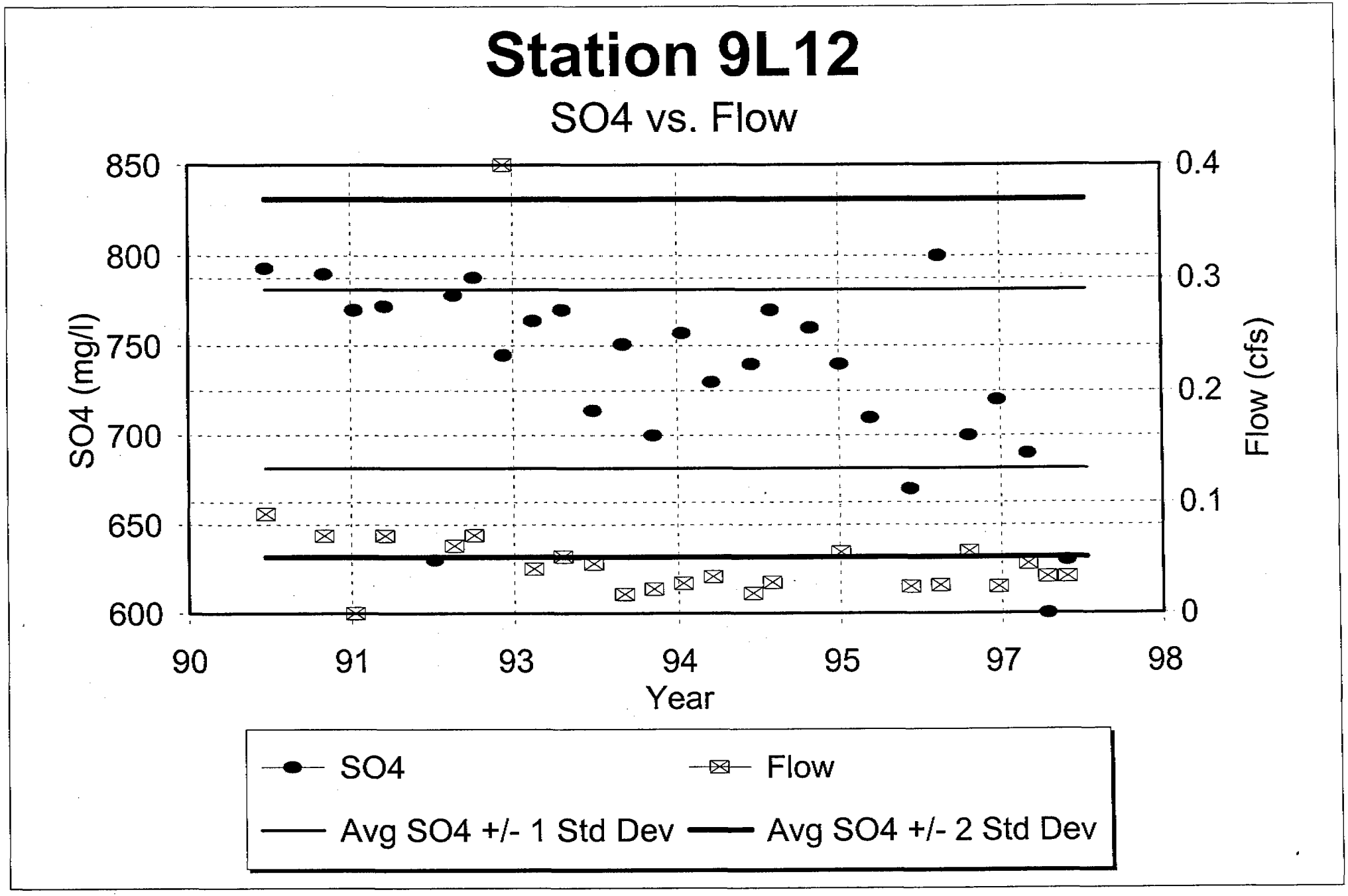
* Measurements taken for this month are extremely anomalous and judged to be in error and were not included in this table. See previous reports for actual data.

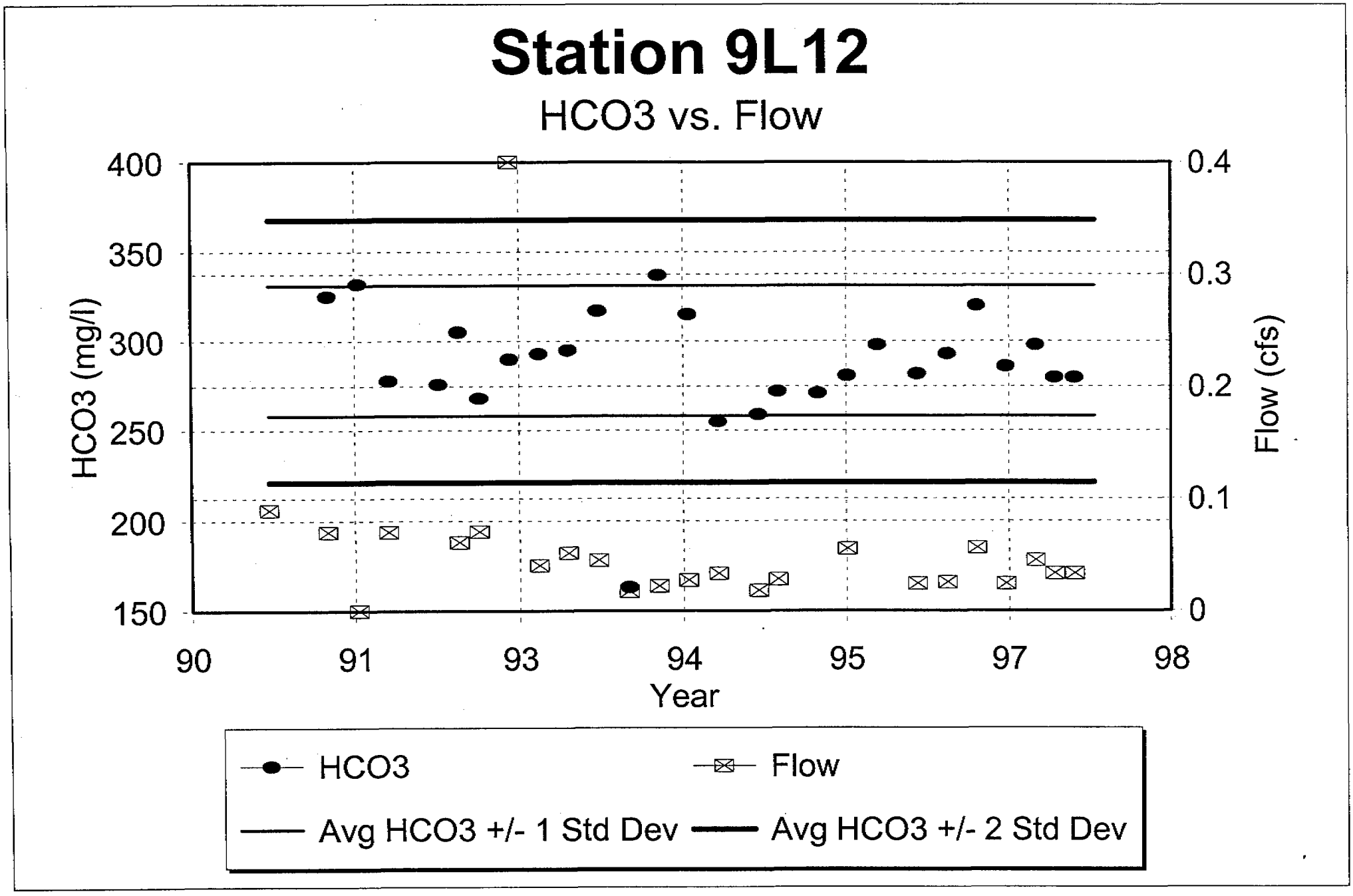
Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 3, 1998

Station: GENTRID | Property: Star Point | Location: 440' N 1125' E of SW com. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: About 8400

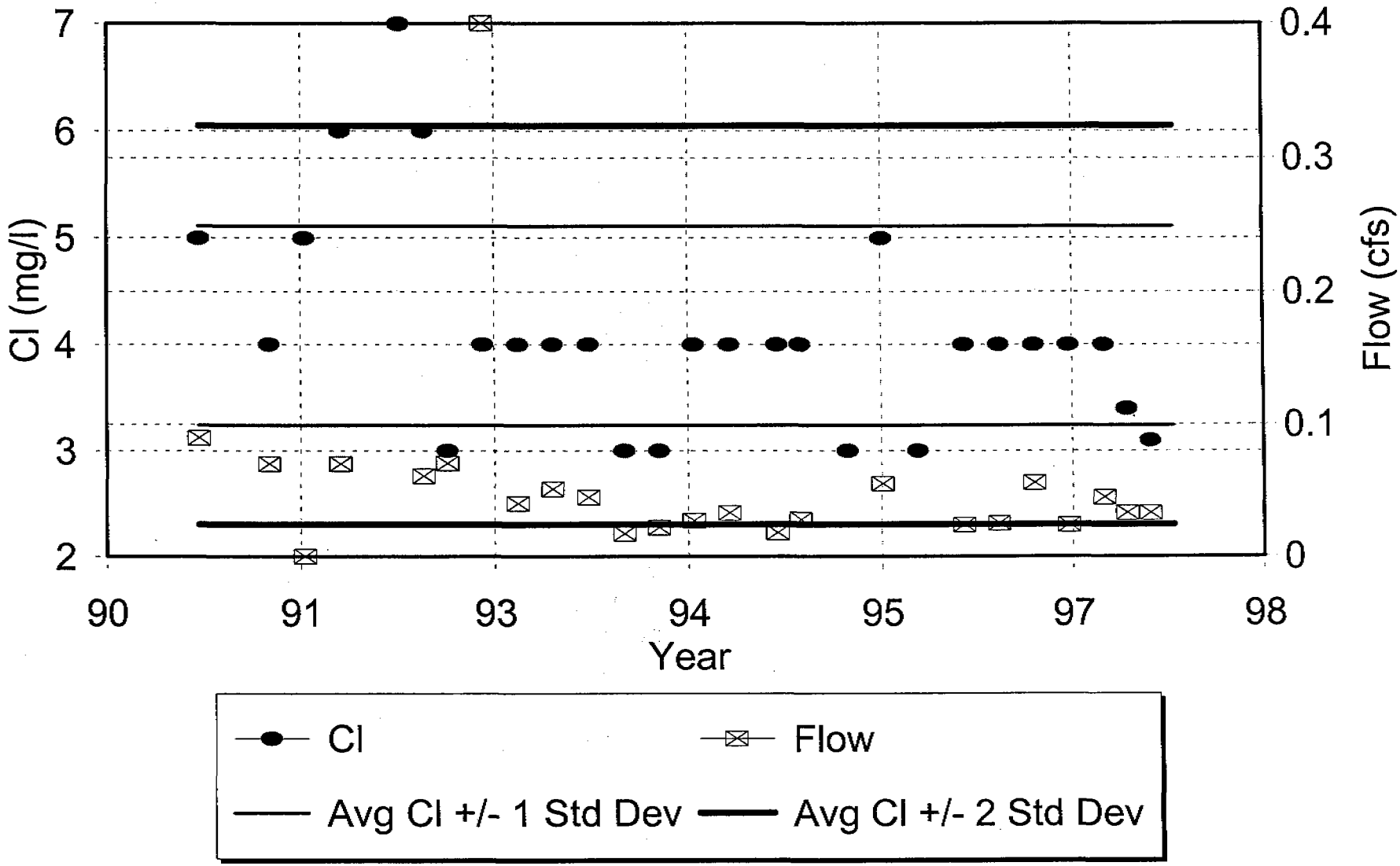
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/01/92	1.78																				
Jul-92																						
Aug-92	08/31/92		7.9	1370	6.9	438 <	2		402	315	0	4	105	95	40	2	9		0.0003		0	
Sep-92																						
Oct-92	10/31/92	0.894	6.3	800	8.4				405	296	4	1	78	98	39	2	3		0.0001		0	
Nov-92																						
Dec-92	12/27/92	0.64	6.3	6.3	8.8				418	314	0	4	142	100	41	4	6		0.0001		0.1	
Jan-93	*																					
Feb-93																						
Mar-93																						
Apr-93	*																					
May-93																						
Jun-93																						
Jul-93	07/21/93	1.69	6.8	663	8.5	400			381	364	0	3	78	90	38	3	3	<	0.02	0.32	0.01	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	1.448	6.7	635	8.5	366			365		0	3	82	87	36	2	4		0.04	0.05 <	0.01	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	3.565				406			350	364	0	4	93	81	36	3	6		0.04	0.31	0.02	
Feb-94																						
Mar-94																						
Apr-94	04/25/94	2.328	7.7	935	10	560	4		449	390	0	5	177	104	46	5	6		0.19	0.38	0.04	
May-94																						
Jun-94																						
Jul-94	07/20/94	3.12	7.9	695	10.1	424			347	305	10	5	109	83	34	3	4		0.11	0.13	0.01	
Aug-94																						
Sep-94																						
Oct-94	10/27/94	2.6	7.8	689	10	450			364	278	0	4	130	83	38	4.1	4.7		0.09	0.13	0.01	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95		7.97	688	10.11	410	140		385	273 <	2	4	120	88.3	40	3.7	4.6	-0.6	0.02	1.24	0.048	
Mar-95																						
Apr-95	04/26/95		7.9	635	13	420			406	308 <	2	4	110	94	41.5	4.3	6.1	-0.6	0.02	0.17	0.024	
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95		7.8	627	13	460			398	307 <	2	10	90	94.9	39.1	3.1	4.8	-0.4	0.06	0.44	0.038	
Sep-95																						
Oct-95																						
Nov-95	11/28/95		7.8	813		520			439	278 <	2	4	160	101	45.4	6.2	9.1	1.7	0.11	0.25	0.041	
Dec-95																						
Jan-96																						
Feb-96	02/21/96																					
Mar-96			7.5	863	14	508			445	297	1 <	4	160	104	45	5.8	11	0.6	0.06	0.16	0.039	
Apr-96																						
May-96																						
Jun-96	06/26/96	0.115	7.9	932	14	756			655	295	2 <	7	330	156	64.5	10.5	11.2	3.1	0.05	0.17	0.097	
Jul-96																						
Aug-96																						
Sep-96	09/30/96	0.13	7.75	812	13	579			515	309	2 <	5	200	119	52.8	7.3	9	1.7	0.18	0.23	0.039	
Oct-96																						
Nov-96																						
Dec-96	12/17/96	0.112	7.5	116	14	580			507	340	2 <	4	190	116	52.7	6.2	7.1	-1.4	0.01 <	2.88	0.073	
Jan-97																						
Feb-97																						
Mar-97	03/19/97	0.074	9.1	897	14	592			548	334	2 <	4	190	127	56	6.6	6.8	3	0.84	5.08	0.099	
Apr-97																						
May-97																						
Jun-97	06/12/97	0.064	7.2	807	14	577			552	342	2 <	3	170	129	55.6	6.6	6.5	4.8	1.12	4.13	0.096	
Jul-97																						
Aug-97	08/21/97	0.071	7.42	1076	14	580			500	340	10 <	2.9	140	120	49	6.1	5.3	3	0.01 <	3.9	0.09	
Sep-97	09/16/97	0.068																				
Oct-97	10/02/97	0.047	7.13	767	14	590			360	330	10 <	2.6	160	53	55	7.8	6.8	-13	0.01 <	4.8	0.1	
Nov-97																						
Dec-97																						

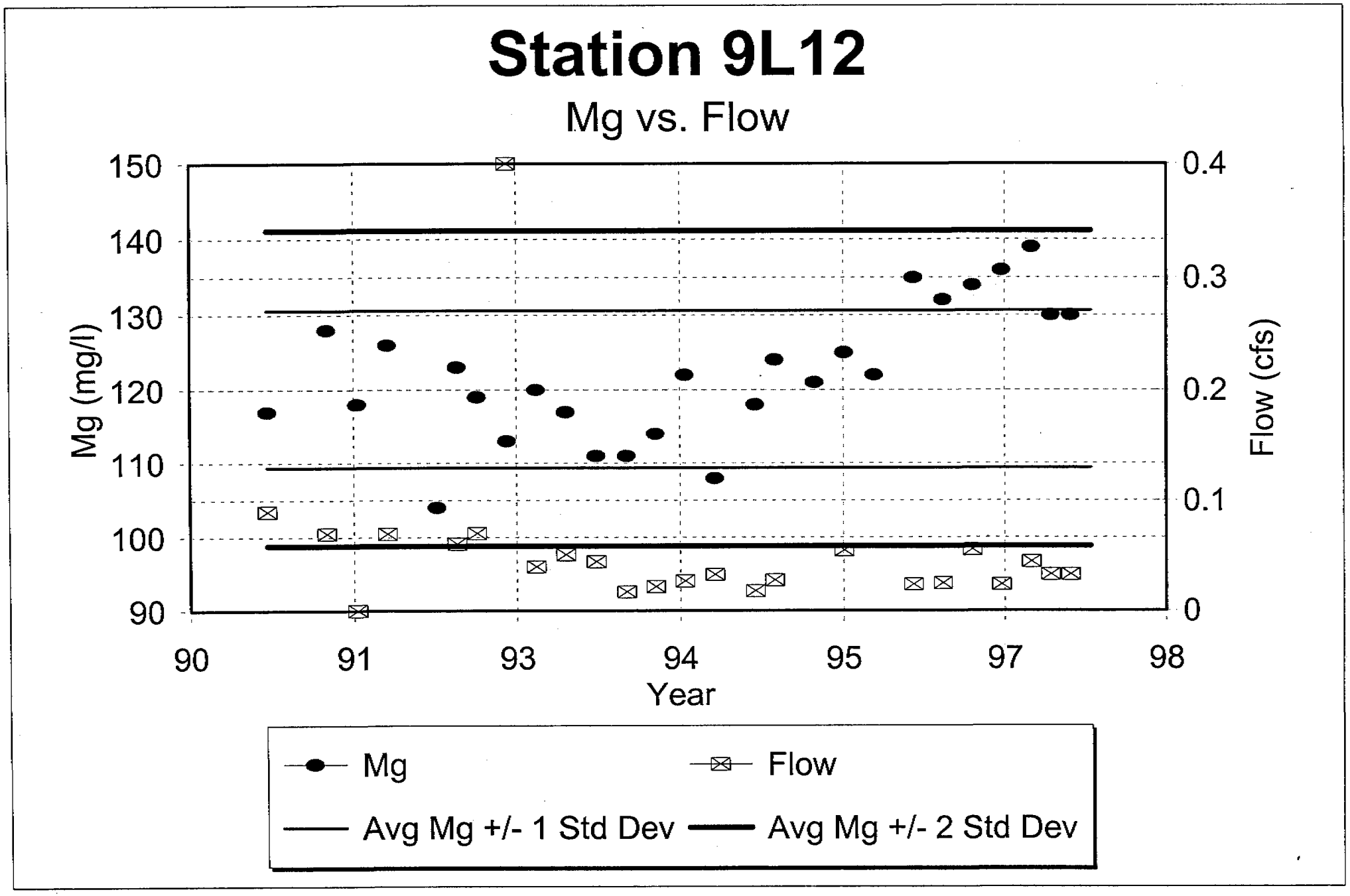

Station 9L12
SO4 vs. Flow
850
800
750
700
650
600
SO4 (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
90
91
93
94
95
97
98
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

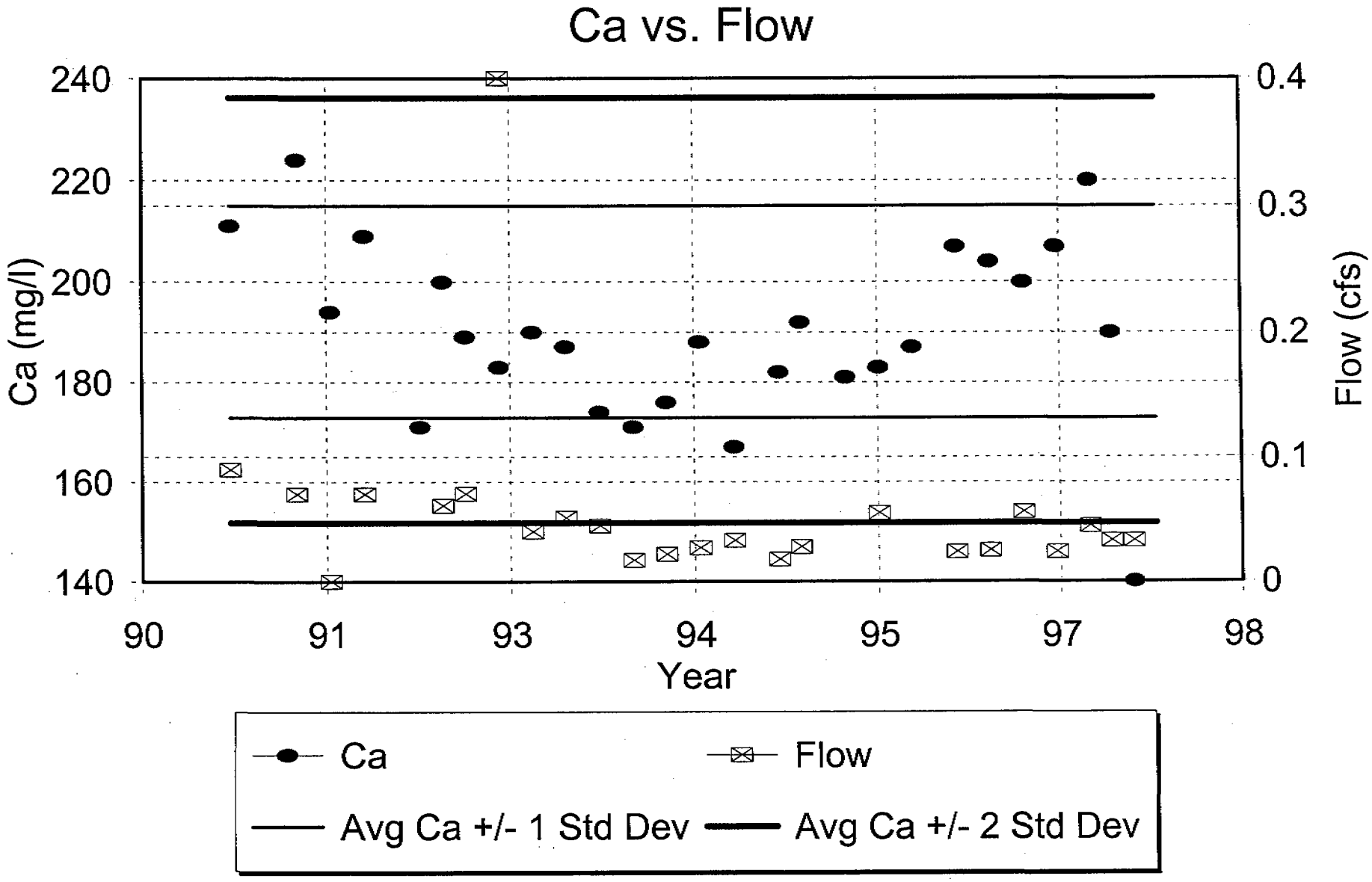

Station 9L12
HCO3 vs. Flow
400
350
300
250
200
150
HCO3 (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
90
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

Station 9L12

Cl vs. Flow

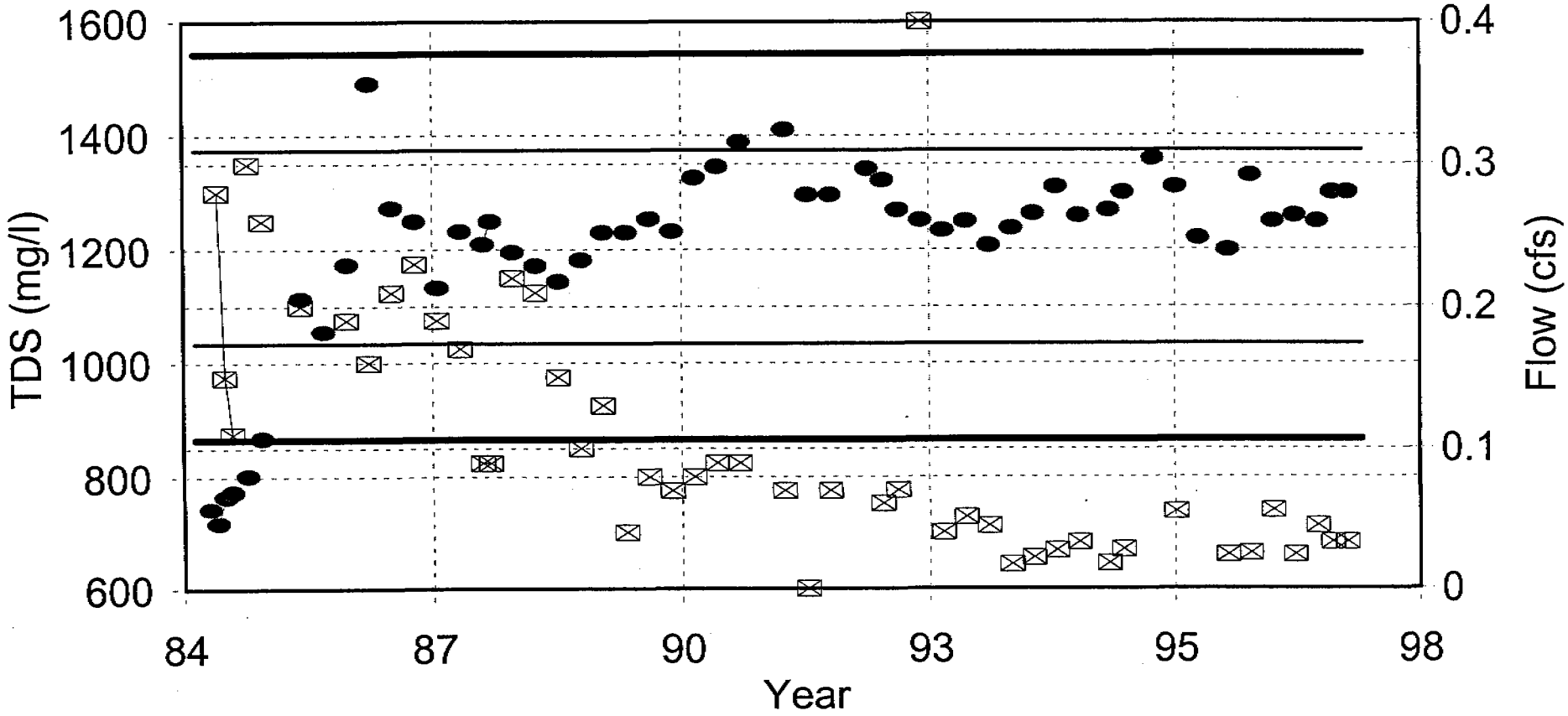



Station 9L12
Mg vs. Flow
Mg (mg/l)
150
140
130
120
110
100
90
Flow (cfs)
0.4
0.3
0.2
0.1
0
90
91
93
94
95
97
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 9L12
Ca vs. Flow
240
220
200
180
160
140
Ca (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

Station 9L12

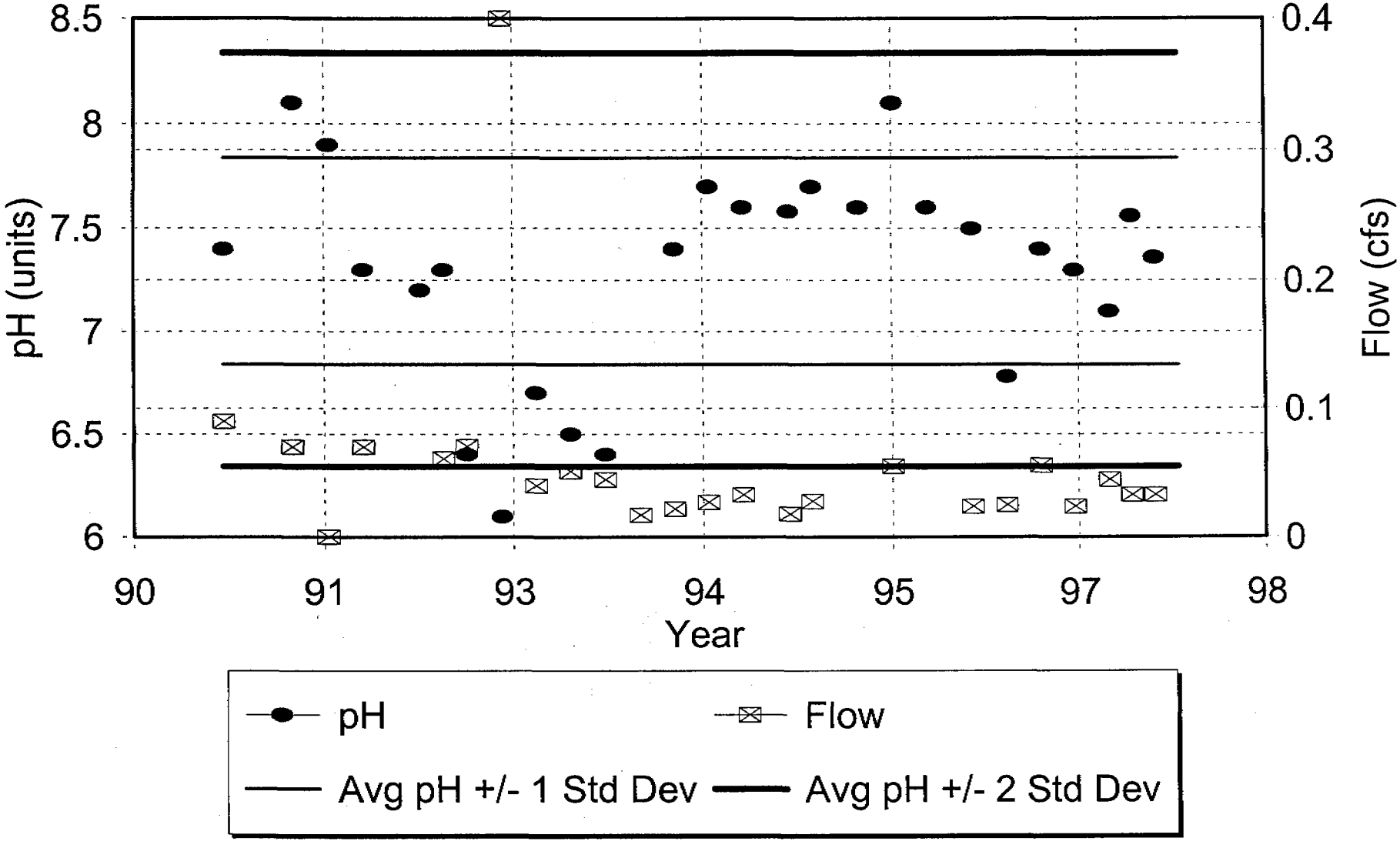
TDS vs. Flow



TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

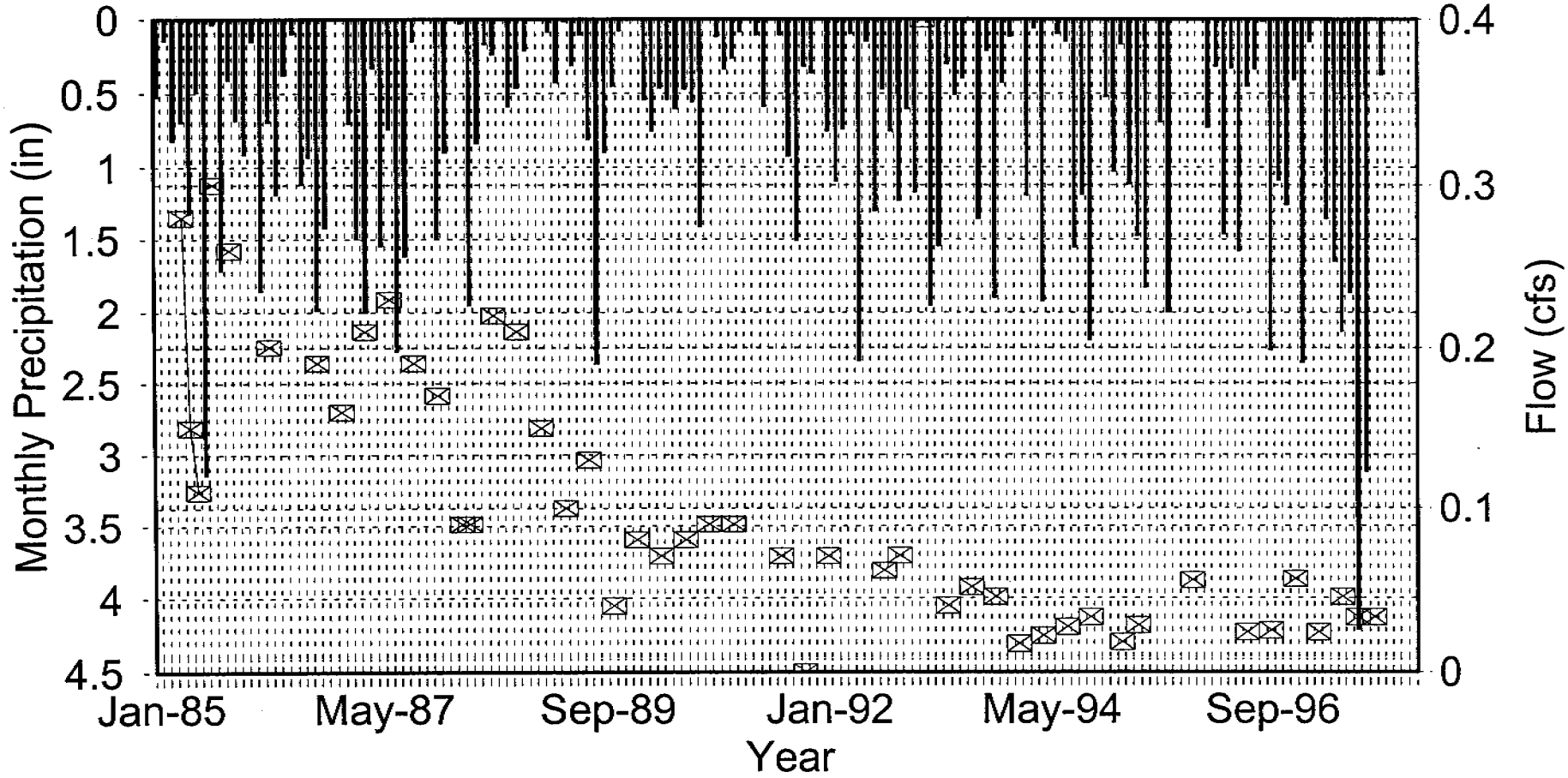
Station 9L12

pH vs. Flow



Station 9L12

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 3, 1998

Station: 9L12 | Property: Star Point | Location: 1625' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8470

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-97																						
Feb-97																						
Mar-97	03/19/97	0.024	7.3	1550	13	1260			1080	286	2 <	4	720	207	136	12.5	6.8	2.7	0.04	0.37	0.018	
Apr-97																						
May-97																						
Jun-97	06/12/97	0.045	7.1	1430	13	1250			1120	298	2 <	4	690	220	139	12.2	6.7	5.6	0.01 <	0.09	0.005	
Jul-97																						
Aug-97	08/21/97	0.033	7.56	1755	13	1300			1000	280	10 <	3.4	600	190	130	11	6.1	6.5	0.01 <	0.01 <	0.005	
Sep-97																						
Oct-97	10/02/97	0.033	7.36	1210	13	1300			880	280	10 <	3.1	630	140	130	14	7.8	-1.2	0.01 <	0.02	0.005	
Nov-97																						
Dec-97																						
END DATA																						
	Count	46	30	29	28	53	1	0	31	30	23	31	31	31	31	31	31	12	31	31	29	
	Minimum	0	6.1	2	6	717 <	2	ERR	854	163	0 <	3	600	140	88	10	6	-4.6 <	0 <	0 <	0	
	Maximum	0.4	8.1	1890	13	1492 <	2	ERR	1250	366	14 <	7	800	259	139	14	22	6.5 <	0.04 <	0.37 <	0.02	
	Average	0.107	7.3393	1456.4	10.243	1204.8 <	2	ERR	983.45	294.67	2.5217 <	4.1774	731.52	194	120	11.794	7.529	0.0083 <	0.0165 <	0.0348 <	0.0084	
	Standard Deviation	0.0888	0.4961	319.68	1.9843	169.54 <	0	ERR	80.936	36.566	4.2618 <	0.9366	49.856	21.114	10.583	0.9291	3.7005	3.863 <	0.007 <	0.0643 <	0.004	
	Avg. -1 Std. Dev.	0.0182	6.8412	1136.8	8.2589	1035.2 <	2	ERR	902.52	258.1	-1.74 <	3.2408	681.66	172.89	109.42	10.864	3.8285	-3.855 <	0.0095 <	-0.029 <	0.0044	
	Avg. +1 Std. Dev.	0.1958	7.8374	1776.1	12.227	1374.3 <	2	ERR	1064.4	331.23	6.7835 <	5.114	781.37	215.11	130.58	12.723	11.23	3.8713 <	0.0234 <	0.0991 <	0.0124	
	Avg. -2 Std. Dev.	-0.071	6.3431	817.09	6.2747	865.71 <	2	ERR	821.58	221.53	-6.002 <	2.3042	631.8	151.77	98.834	9.9354	0.128	-7.718 <	0.0025 <	-0.094 <	0.0004	
	Avg. +2 Std. Dev.	0.2847	8.3356	2095.8	14.212	1543.9 <	2	ERR	1145.3	367.8	11.045 <	6.0506	831.23	236.23	141.17	13.652	14.93	7.7342 <	0.0304 <	0.1634 <	0.0164	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 3, 1998

Station: 9L12 | Property: Star Point | Location: 1625' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8470

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91	01/22/91	0.09	7.4	1330		1388			1007			5	793	211	117	11	21	<	0.02 <	0.02 <	0.01	
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91	07/26/91	0.07	8.1	1140	8	1410			1065	325	12	4	790	224	128	13	7	<	0.02 <	0.02		
Aug-91																						
Sep-91																						
Oct-91	10/28/91	0	7.9		8	1296			969	332	0	5	770	194	118	12	7	<	0.02 <	0.02		
Nov-91																						
Dec-91																						
Jan-92	01/22/92	0.07	7.3	1390	6	1296			1039	278	0	6	772	209	126	13	7	<	0.02 <	0.02 <	0.01	
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/23/92		7.2	1620	9.6	1342			854	276	0	7	630	171	104	10	6	<	0.02 <	0.02 <	0.01	
Jul-92																						
Aug-92	08/31/92	0.061	7.3	1700	9.3	1322 <	2		1004	305	0	6	778	200	123	11	22	<	0.02 <	0.02 <	0.01	
Sep-92																						
Oct-92	10/31/92	0.0704	6.4	2	9.3	1270			960	268	14	3	768	189	119	12	6	<	0.02 <	0.02 <	0.01	
Nov-92																						
Dec-92																						
Jan-93	01/27/93	0.4	6.1	1650	9.2	1252			921	290	0	4	745	183	113	11	6	<	0.02 <	0.02 <	0.01	
Feb-93																						
Mar-93																						
Apr-93	04/30/93	0.04	6.7	1390	10	1234			967	293	0	4	764	190	120	12	6	<	0.02 <	0.02 <	0.01	
May-93																						
Jun-93																						
Jul-93	07/21/93	0.051	6.5	1430	9.6	1250			947	295	0	4	770	187	117	12	6	<	0.02 <	0.02 <	0.01	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	0.045	6.4	1440	9.6	1206			890	317	0	4	714	174	111	12	6	<	0.02 <	0.02 <	0.01	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	0.017				1238			683	163	0	3	751	171	111	11	7	<	0.02 <	0.02 <	0.01	Meter Broken - No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	0.022	7.4	1560	10	1264			907	337	0	3	700	176	114	11	6	<	0.02 <	0.02 <	0.01	
May-94																						
Jun-94																						
Jul-94	07/20/94	0.027	7.7	1535	10.1	1310			970	315	0	4	757	188	122	12	7		0.02 <	0.02 <	0.01	
Aug-94																						
Sep-94																						
Oct-94	10/27/94	0.033	7.6	1538	9	1260			862	255	0	4	730	167	108	11	6		0	0	0	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	0.018	7.58	1614	9.11	1270			940	259		4	740	182	116	11.3	6.2	-3.7 <	0.01	0.02 <	0.005	
Mar-95																						
Apr-95	04/26/95	0.028	7.7	1597	11	1300			990	272		4	770	192	124	12.3	6.5	-3.2 <	0.01 <	0.01 <	0.005	
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95		7.6	1590	12	1360			950	271		3	760	181	121	11.6	6.7	-4.6 <	0.01 <	0.01 <	0.005	
Sep-95																						
Oct-95																						
Nov-95	11/26/95	0.055	8.1	1610		1310			971	281		5	740	183	125	11.7	6.4	-3.2 <	0.01 <	0.01 <	0.005	
Dec-95																						
Jan-96																						
Feb-96	02/21/96		7.6	1770	13	1220			969	298	2 <	3	710	187	122	11.2	6.6	-2.5	0.01 <	0.01	0.005	
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/26/96	0.024	7.5	1400	13	1200			1070	282	2 <	4	670	207	135	12.4	7	5.3	0.01 <	0.02	0.005	
Jul-96																						
Aug-96																						
Sep-96	09/30/96	0.025	6.78	1426	12	1330			1250	293	2 <	4	800	204	132	12	6.9	-2.5	0.01 <	0.01 <	0.005	
Oct-96																						
Nov-96																						
Dec-96	12/17/96	[illegible]6	7.4	1450	13	1250			1050	320	2 [illegible]	4	700	200	134	12.4	6.7	0.9	0.01 <	0.09	0.005	

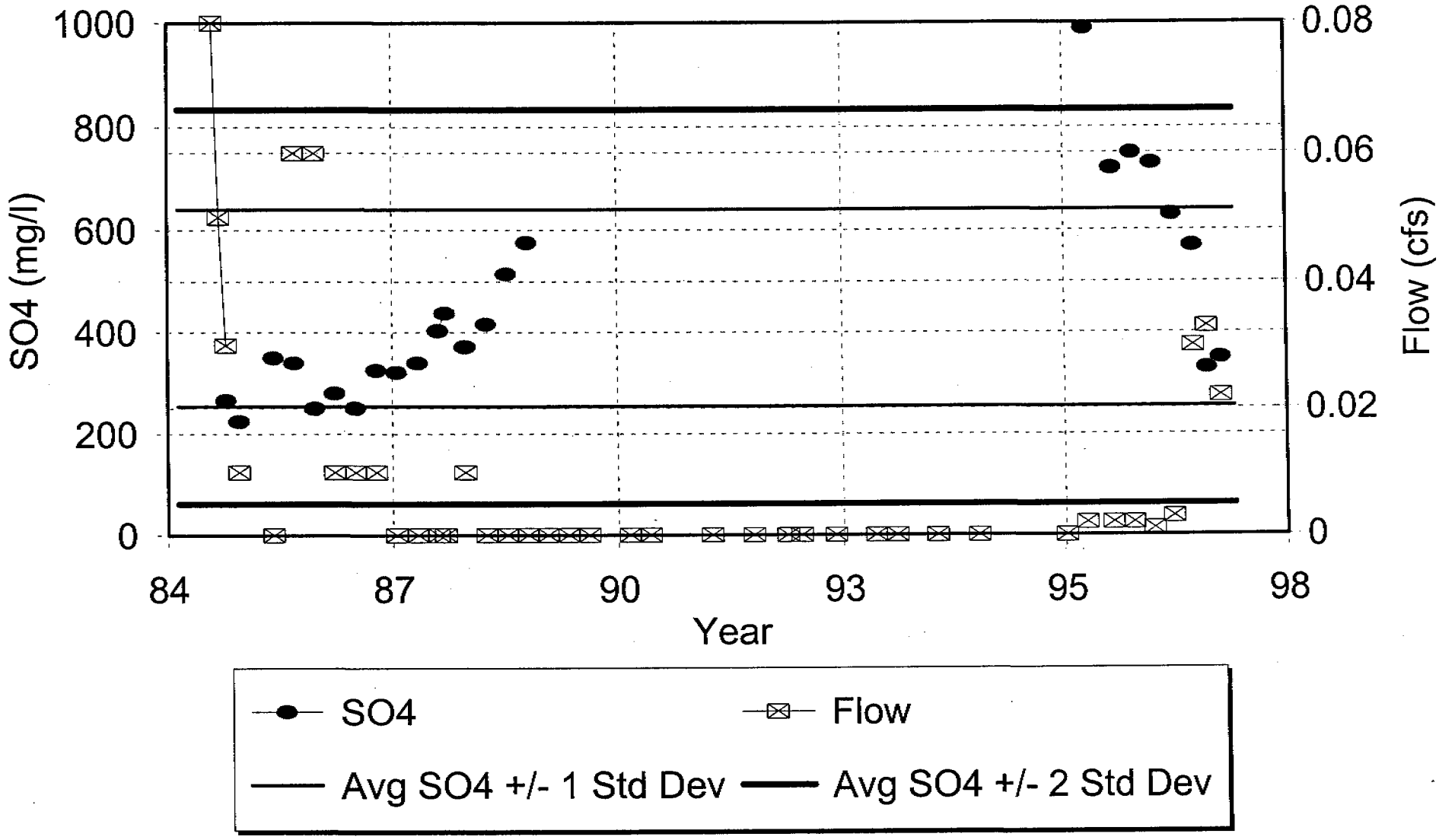
Cyprus Plateau Mining Company - Water Quality Data

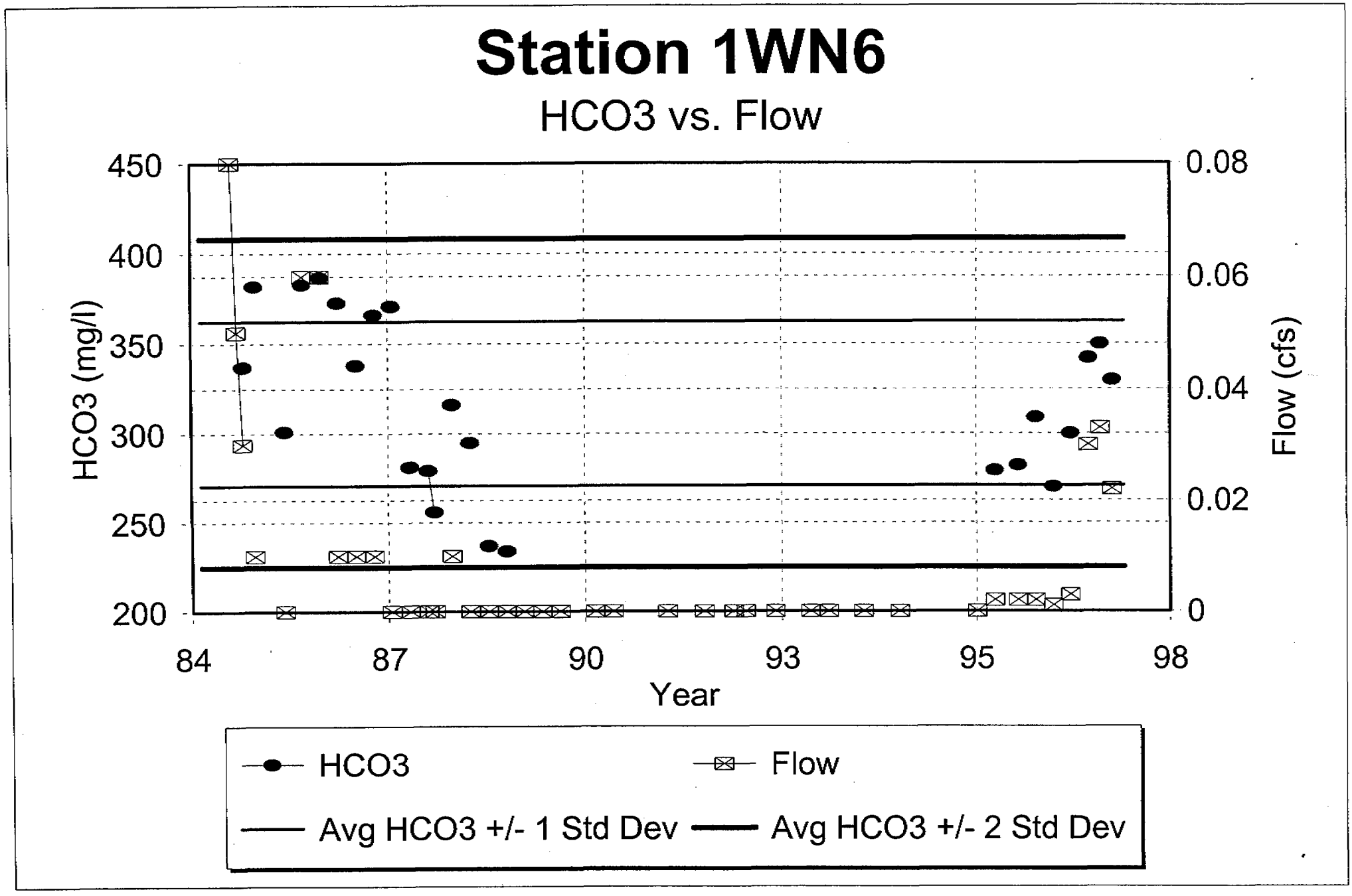
Station: 9L12 | Property: Star Point | Location: 1625' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: March 3, 1998 | Elevation: about 8470

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85	03/22/85					743																
Apr-85	04/22/85	0.28				717																
May-85	05/24/85	0.15				764																
Jun-85	06/17/85	0.11				773																
Jul-85																						
Aug-85	08/29/85	0.3				802																
Sep-85																						
Oct-85	10/31/85	0.26				868																
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/19/86	0.2				1114																
Apr-86																						
May-86																						
Jun-86	06/18/86					1055																
Jul-86																						
Aug-86																						
Sep-86	09/16/86	0.19				1174																
Oct-86																						
Nov-86																						
Dec-86	12/18/86	0.16				1492																
Jan-87																						
Feb-87																						
Mar-87	03/18/87	0.21				1274																
Apr-87																						
May-87																						
Jun-87	06/08/87	0.23				1250																
Jul-87																						
Aug-87																						
Sep-87	09/25/87	0.19				1134																
Oct-87																						
Nov-87																						
Dec-87	12/16/87	0.17				1232																
Jan-88																						
Feb-88																						
Mar-88	03/23/88	0.09				1210																
Apr-88	04/15/88	0.09				1250																
May-88																						
Jun-88																						
Jul-88	07/27/88	0.22				1196																
Aug-88																						
Sep-88																						
Oct-88	10/27/88	0.21				1172																
Nov-88																						
Dec-88																						
Jan-89	01/25/89	0.15				1144																
Feb-89																						
Mar-89																						
Apr-89	04/28/89	0.1				1182																
May-89																						
Jun-89																						
Jul-89	07/12/89	0.13				1230																
Aug-89																						
Sep-89																						
Oct-89	10/25/89	0.04				1230																
Nov-89																						
Dec-89																						
Jan-90	01/16/90	0.08	7.3	1340	9	1254			1006	359		5	679	259	88	14	7	<	0.02 <	0.02 <	0.01	
Feb-90																						
Mar-90																						
Apr-90	04/18/90	0.07	7.8	1890	9	1232			972	320		5	724	205	112	12	7	<	0.02	0.03 <	0.01	
May-90																						
Jun-90																						
Jul-90	07/02/90	0.08	7.7	1530	9	1326			988	366		4	724	218	108	11	6	<	0.02 <	0.02 <	0.01	
Aug-90																						
Sep-90																						
Oct-90	10/24/90	0.09	7.8	1330	7	1346			984	326		4	768	205	115	10	7	<	0.02	0.06	0.02	
Nov-90																						
Dec-90																						

Station 1WN6

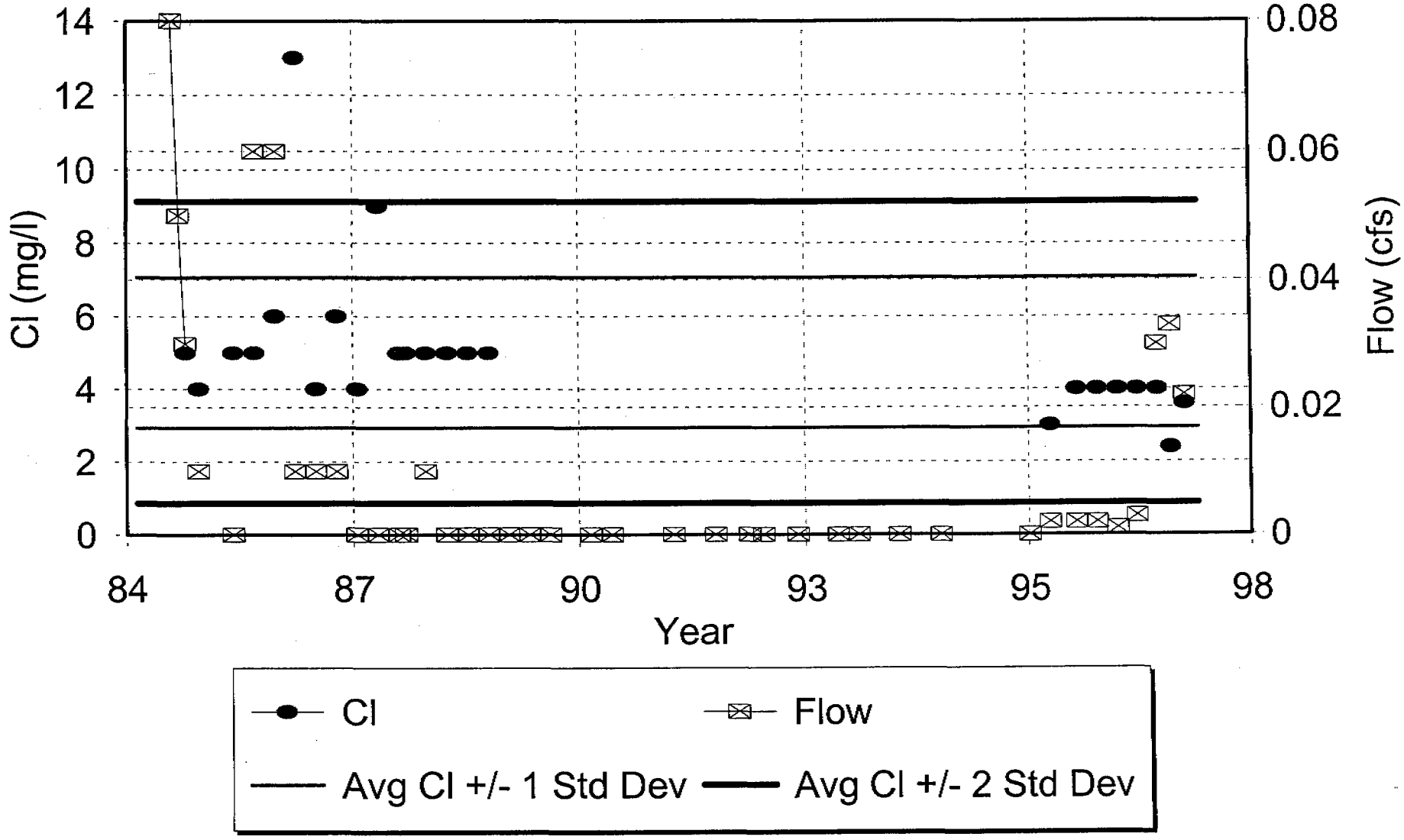
SO4 vs. Flow

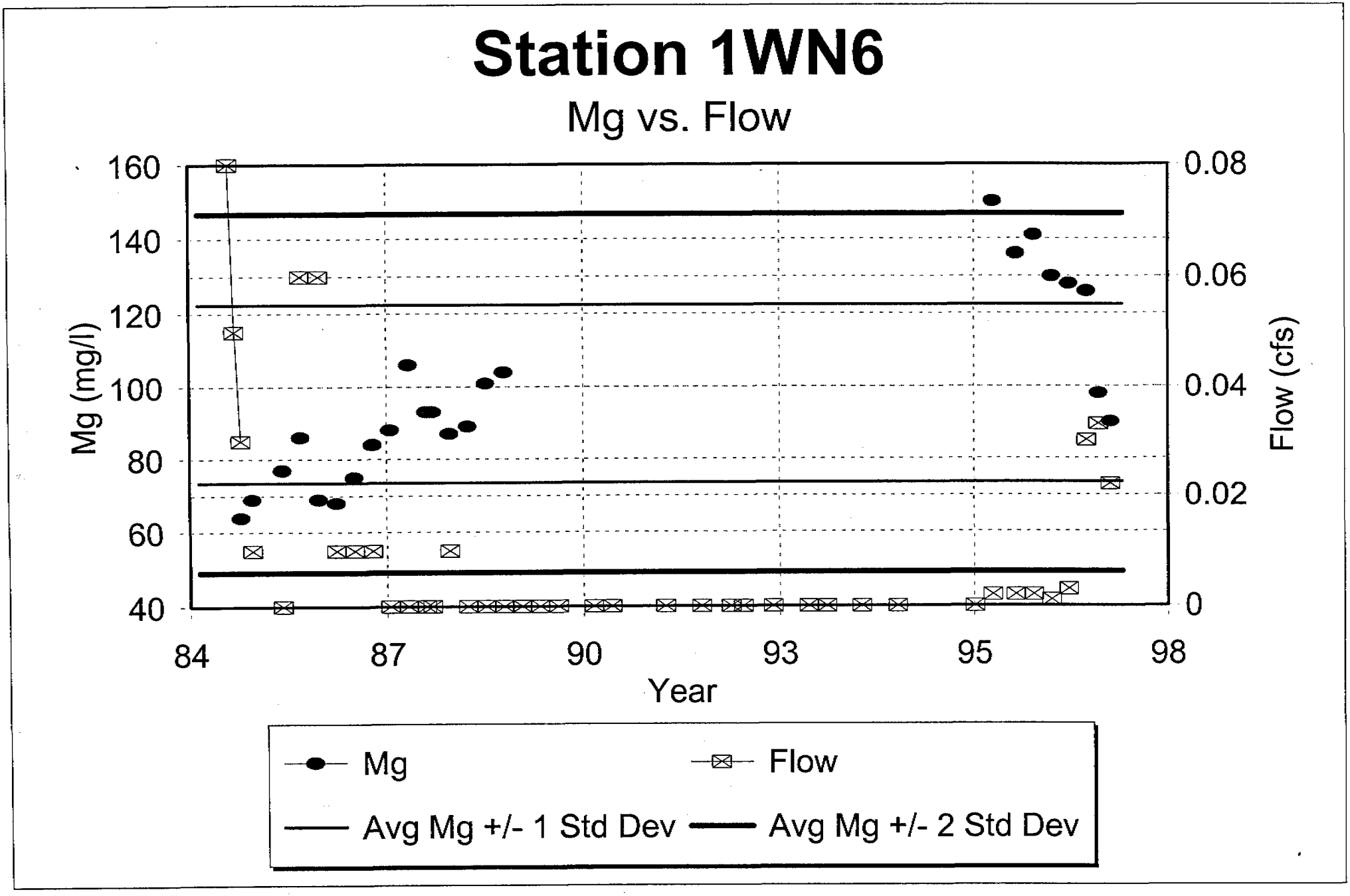



Station 1WN6
HCO3 vs. Flow
450
400
350
300
250
200
HCO3 (mg/l)
0.08
0.06
0.04
0.02
0
Flow (cfs)
84
87
90
93
95
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

Station 1WN6

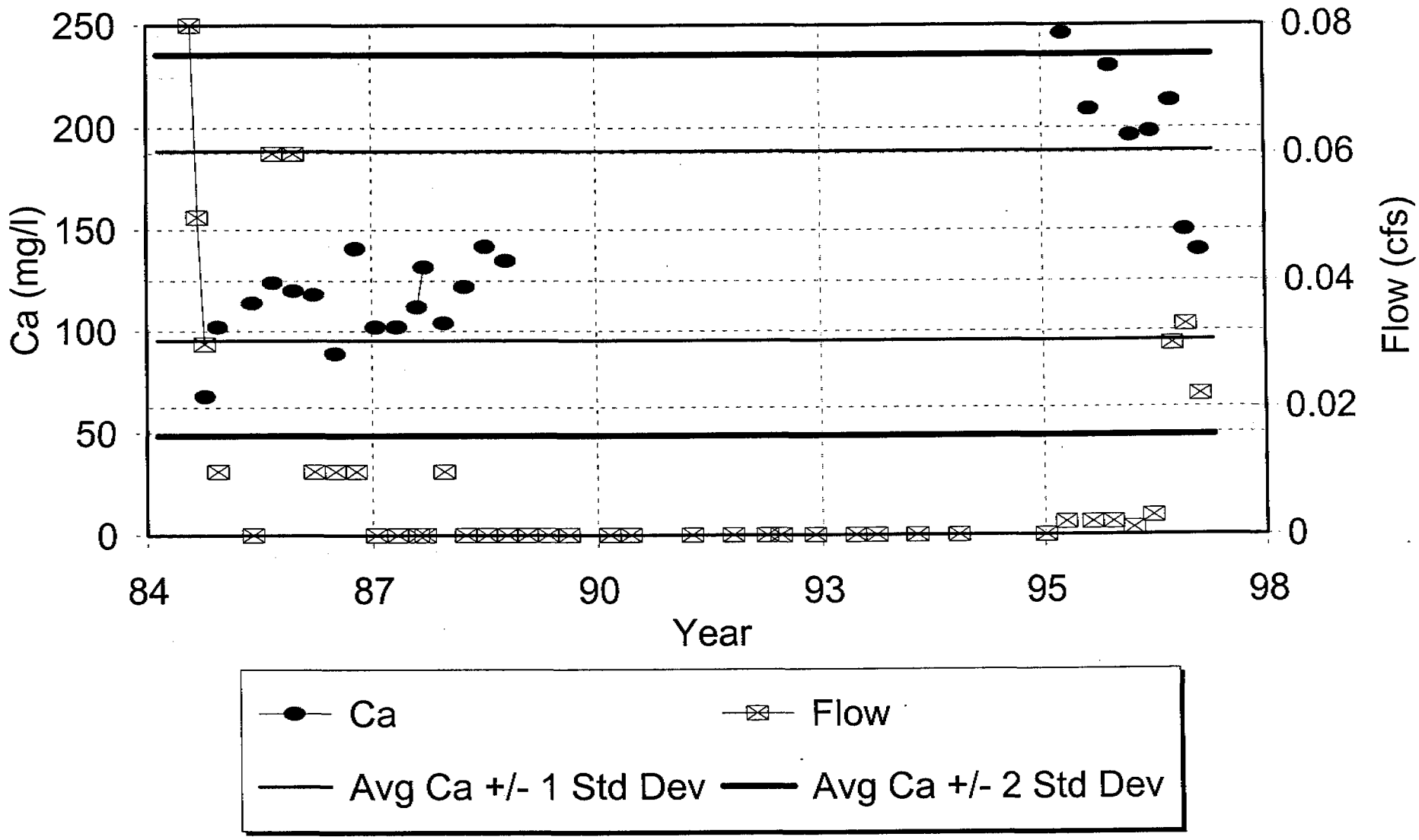
Cl vs. Flow




Station 1WN6
Mg vs. Flow
Mg (mg/l)
160
140
120
100
80
60
40
Flow (cfs)
0.08
0.06
0.04
0.02
0
84
87
90
93
95
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

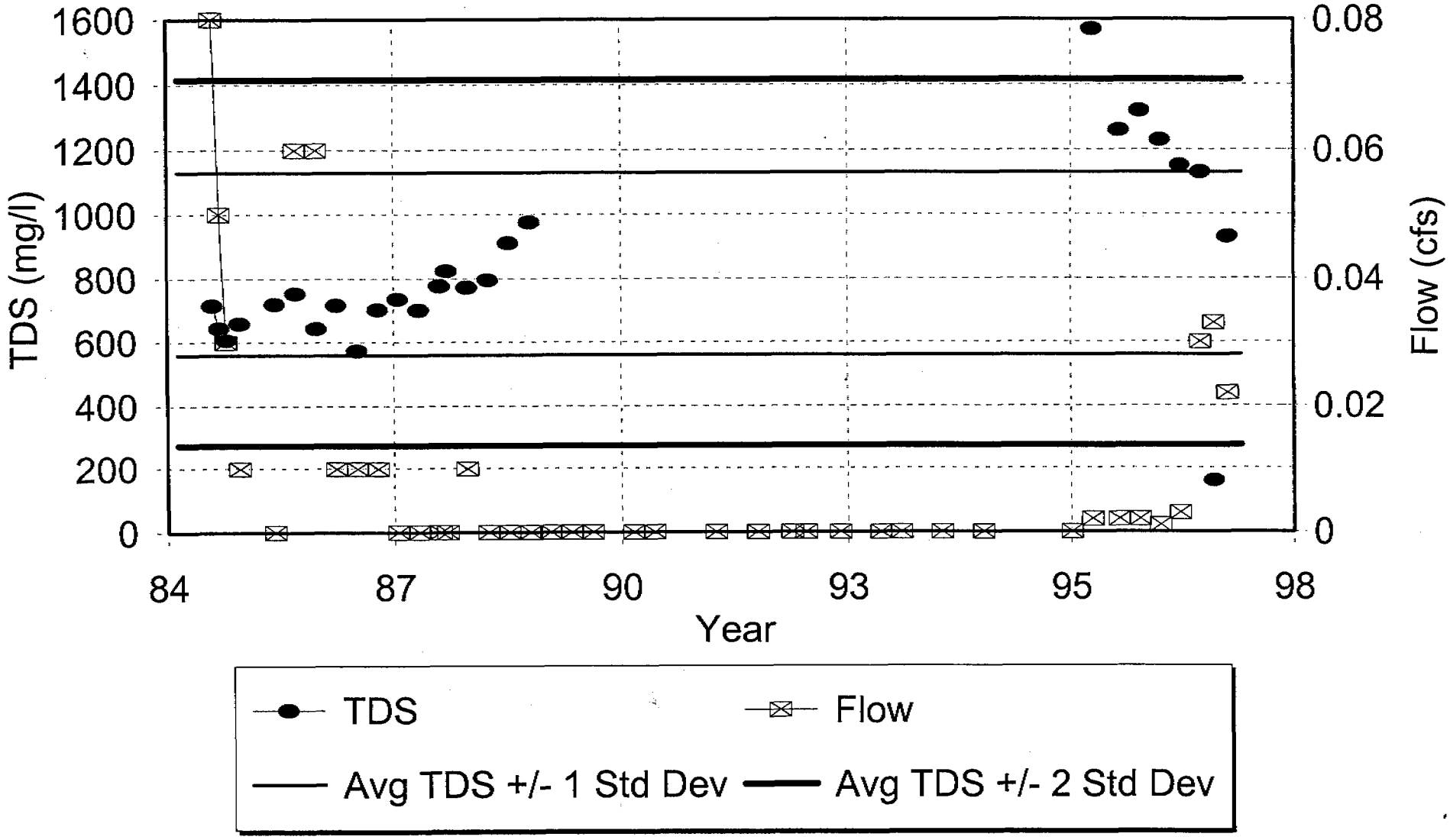
Station 1WN6

Ca vs. Flow



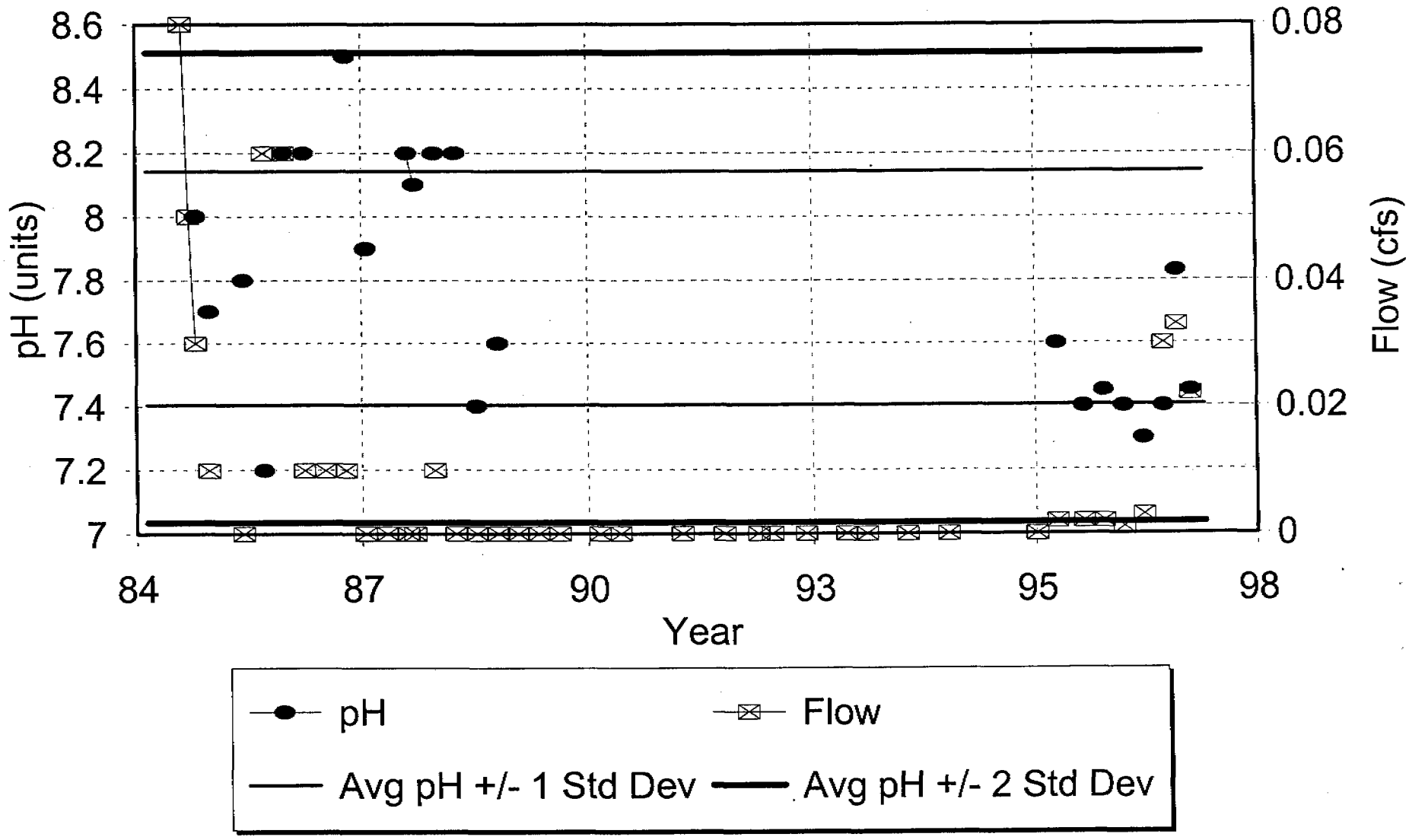
Station 1WN6

TDS vs. Flow



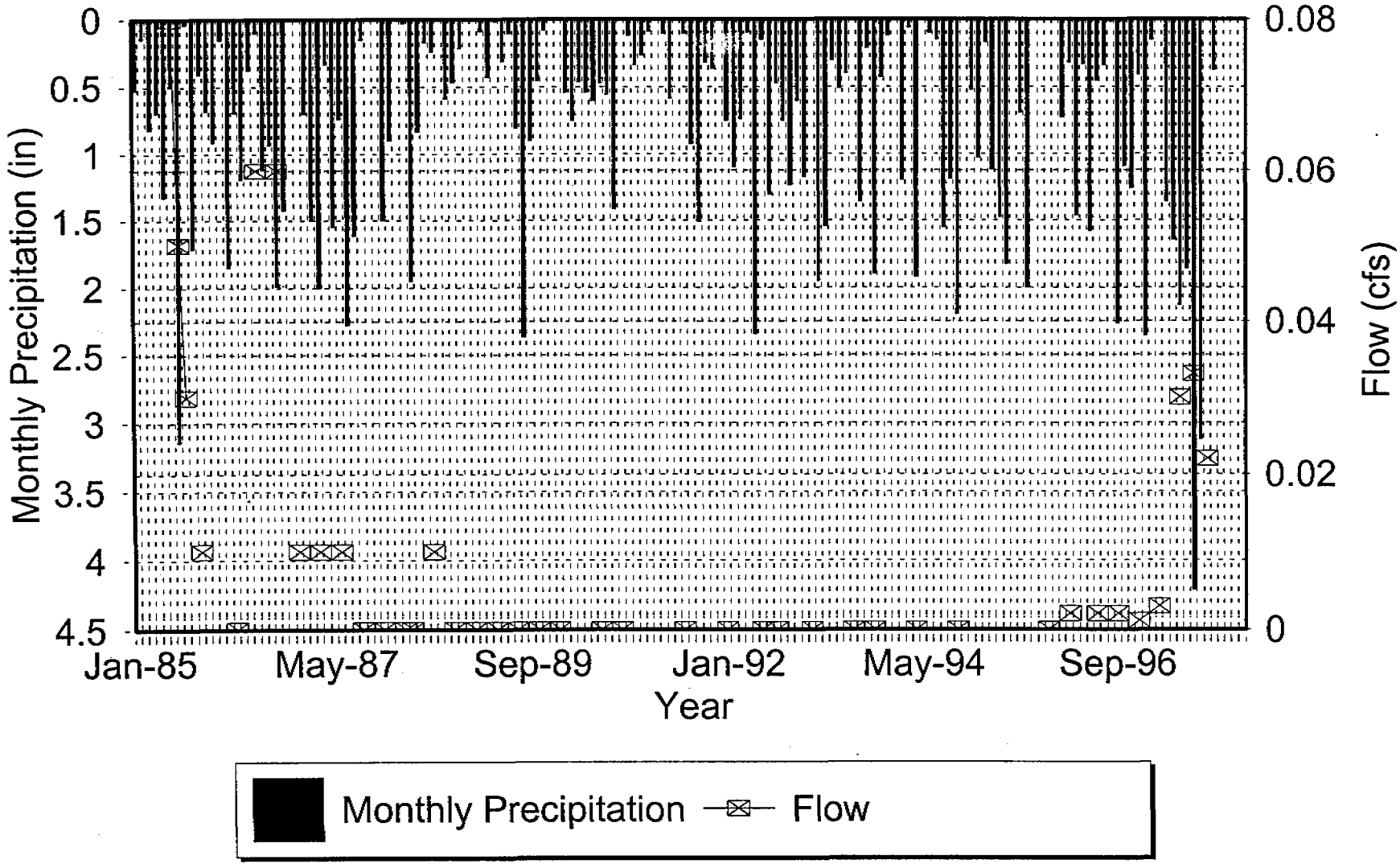
Station 1WN6

pH vs. Flow



Station 1WN6

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 3, 1998

Station: 1WN6 | Property: Star Point | Location: 1500' N 500' E of SW corn, Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-97																						
Feb-97																						
Mar-97	03/19/97	0.003	7.3	1560	13	1150			1020	300	2 <	4	630	198	128	5.8	4.9	3.5	0.02	0.2	0.011	
Apr-97																						
May-97																						
Jun-97	06/12/97	0.03	7.4	1310	14	1130			1050	342	2 <	4	570	213	126	5.4	4.7	6	0.08	1.15	0.056	
Jul-97																						
Aug-97	08/21/97	0.033	7.83	1403	14	160			780	350	10 <	2.4	330	150	98	4.9	4	6.4	0.01 <	0.41	0.028	
Sep-97																						
Oct-97	10/02/97	0.022	7.45	1024	14	930			720	330	10 <	3.6	350	140	90	5.1	4.5	2.5	0.01 <	0.02	0.014	
Nov-97																						
Dec-97																						
END DATA																						
Count		41	22	17	18	26	3	0	16	24	11	24	24	24	24	24	24	8	24	24	23	
Minimum		0	7.2	700	4.4	160	3	ERR	612	234	1 <	2.4	225	68	64	3 <	1	-2.9 <	0.01 <	0.02 <	0.005	
Maximum		0.08	8.5	2100	15	1570	7	ERR	1230	387	10 <	13	990	246	150	13.9 <	6.8	6.4 <	0.57 <	7.24 <	0.182	
Average		0.0104	7.7741	1146.8	10.661	844.92	5.3333	ERR	839.13	316.58	3.1818 <	5	447.33	142.04	98	5.075 <	4.6333	2.7125 <	0.0875 <	0.9504 <	0.0249	
Standard Deviation		0.0195	0.3693	382.24	3.7546	285.26	1.6997	ERR	207.21	45.615	3.2423 <	2.0688	192.99	46.707	24.391	2.626 <	1.204	2.8335 <	0.1295 <	1.8918 <	0.0359	
Avg. -1 Std. Dev.		-0.009	7.4047	764.52	6.9065	559.66	3.6337	ERR	631.92	270.77	-0.06 <	2.9312	254.35	95.335	73.609	2.449 <	3.4293	-0.121 <	-0.042 <	-0.941 <	-0.011	
Avg. +1 Std. Dev.		0.0299	8.1434	1529	14.416	1130.2	7.033	ERR	1046.3	362.4	6.4241 <	7.0688	640.32	188.75	122.39	7.701 <	5.8374	5.546 <	0.217 <	2.8422 <	0.0608	
Avg. -2 Std. Dev.		-0.029	7.0354	382.28	3.152	274.4	1.934	ERR	424.71	224.95	-3.303 <	0.8624	61.363	48.628	49.218	-0.177 <	2.2252	-2.954 <	-0.171 <	-2.833 <	-0.047	
Avg. +2 Std. Dev.		0.0494	8.5128	1911.3	18.17	1415.4	8.7327	ERR	1253.5	408.21	9.6664 <	9.1376	833.3	235.46	146.78	10.327 <	7.0414	8.3795 <	0.3464 <	4.7339 <	0.0967	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

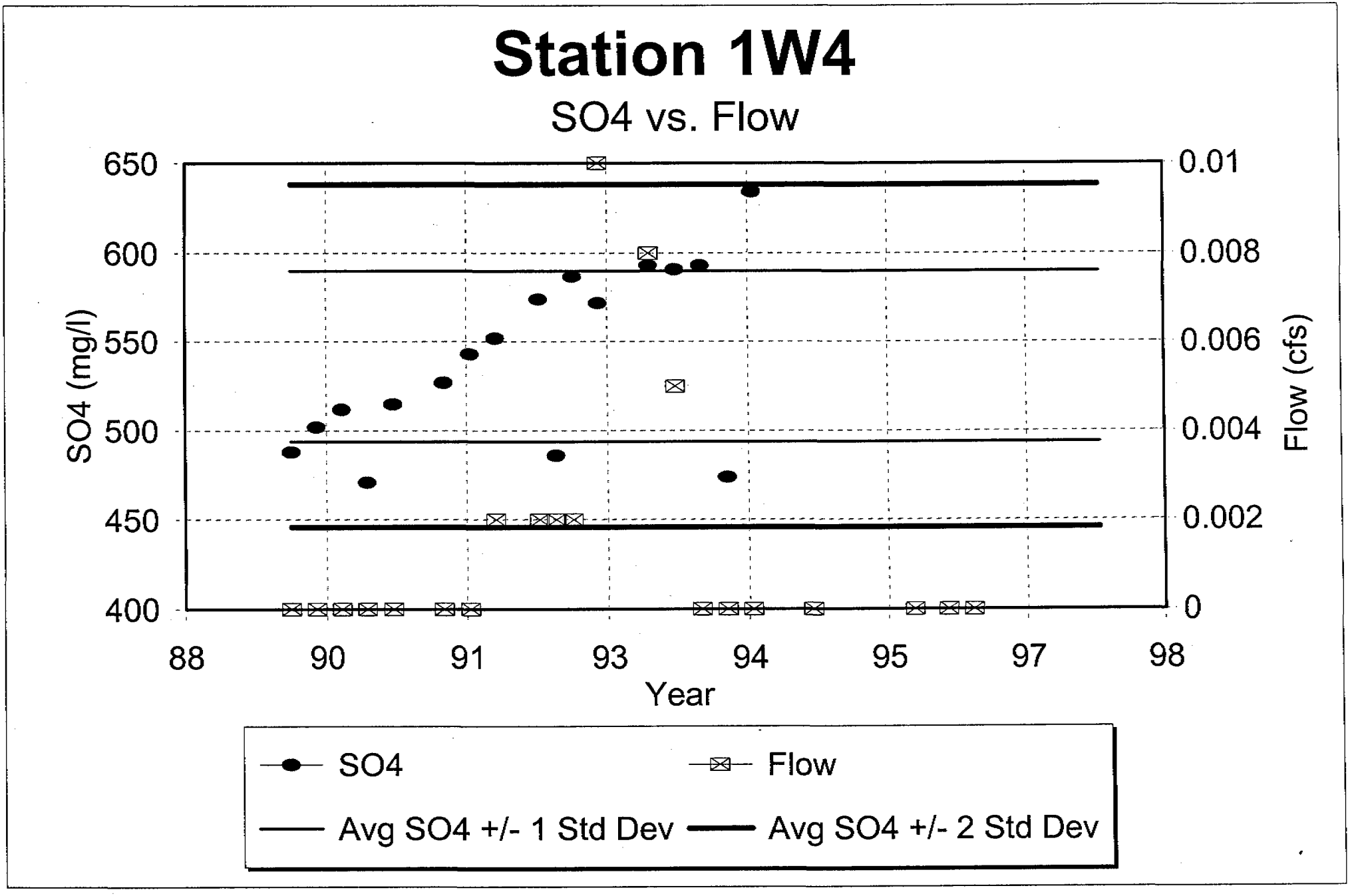
Station: 1WN6 | Property: Star Point | Location: 1500' N 500' E of SW corn. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: March 3, 1998 | Elevation: about 8500

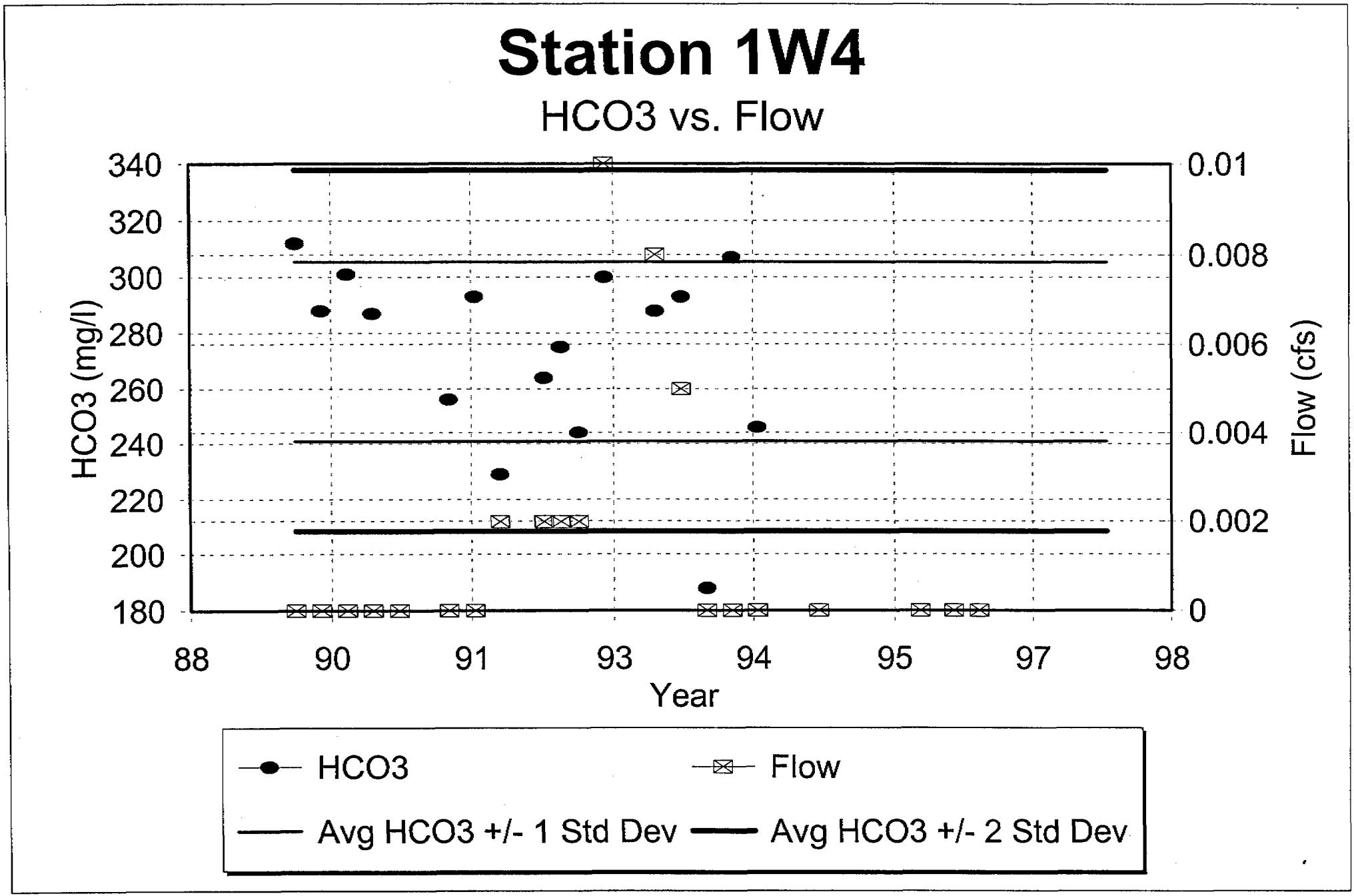
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91	07/26/91	0																				
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92	01/22/92	0																				NO FLOW
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/23/92	0																				NO FLOW
Jul-92																						
Aug-92	08/31/92	0																				NO FLOW
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93	01/27/93	0																				NO FLOW
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93	07/21/93	0																				NO FLOW
Aug-93																						
Sep-93																						
Oct-93	10/19/93	0																				NO FLOW
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94	04/25/94	0																				NO FLOW
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94	10/27/94	0																				NO FLOW
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95	04/26/95																					site inaccessible
May-95																						
Jun-95																						
Jul-95																						
Aug-95																						
Sep-95																						
Oct-95																						
Nov-95	11/28/95	0																				
Dec-95																						
Jan-96																						
Feb-96	02/21/96	0.002	7.6	2100	13	1570			1230	278	2 <	3	990	246	150	5.6	5.1	-2.9	0.01 <	0.03		
Mar-96																						
Apr-96																						
May-86																						
Jun-96	06/26/96	0.002	7.4	1320	13	1260			1080	262	2 <	4	720	209	136	12.4	6.8	3.1	0.01 <	0.05 <	0.005	
Jul-96																						
Aug-96																						
Sep-96	09/30/96	0.002	7.45	1565	10	1320			1150	309	2 <	4	750	230	141	5.6	5.1	3.1	0.29	1.71	0.182	
Oct-96																						
Nov-96																						
Dec-96	12/17/96	[illegible]011	7.4	1430	13	1230			1020	270	2 [illegible]	4	730	196	130	5.8	5	0	0.01 <	0.08	0.007	

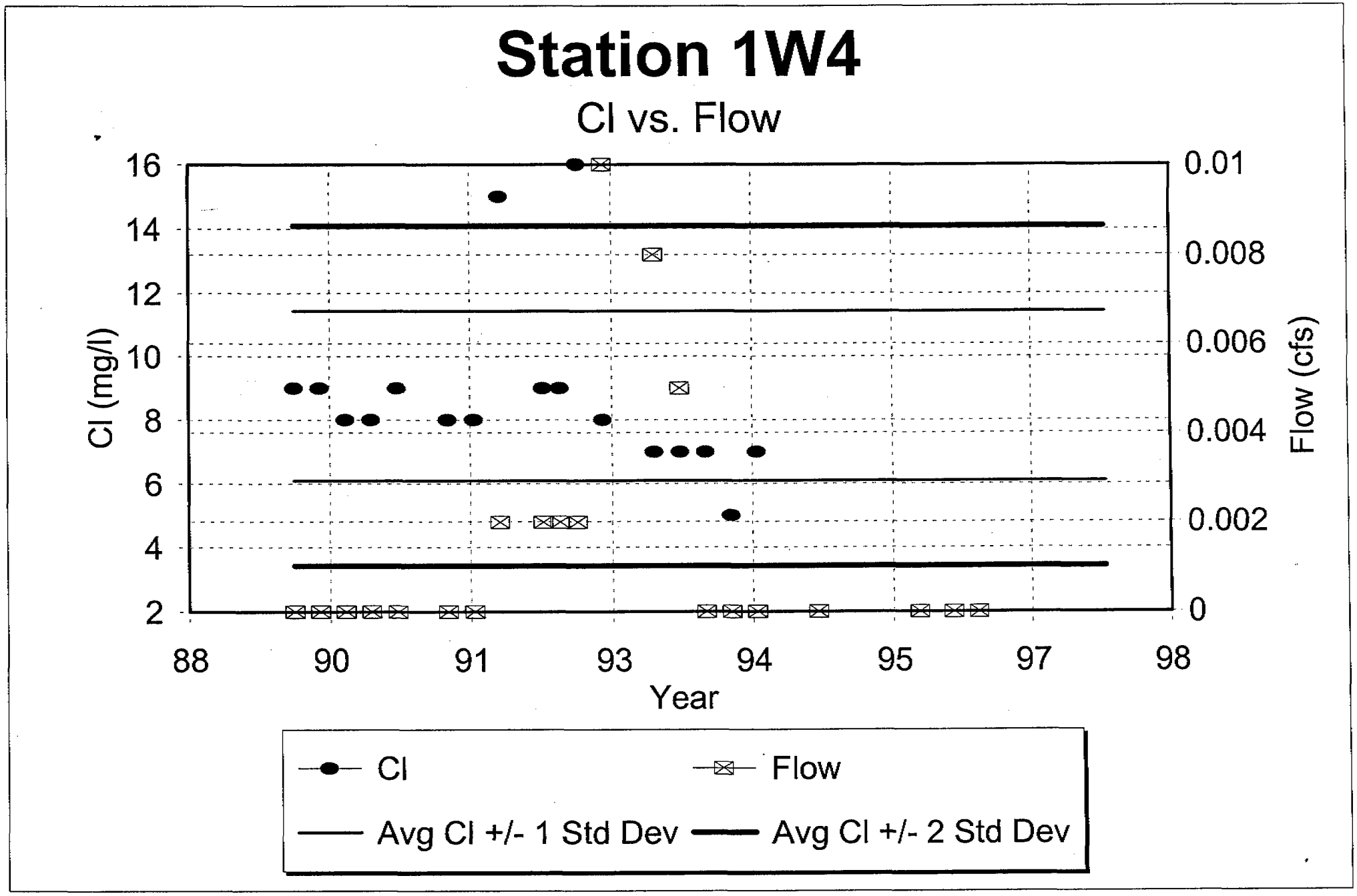
Cyprus Plateau Mining Company - Water Quality Data

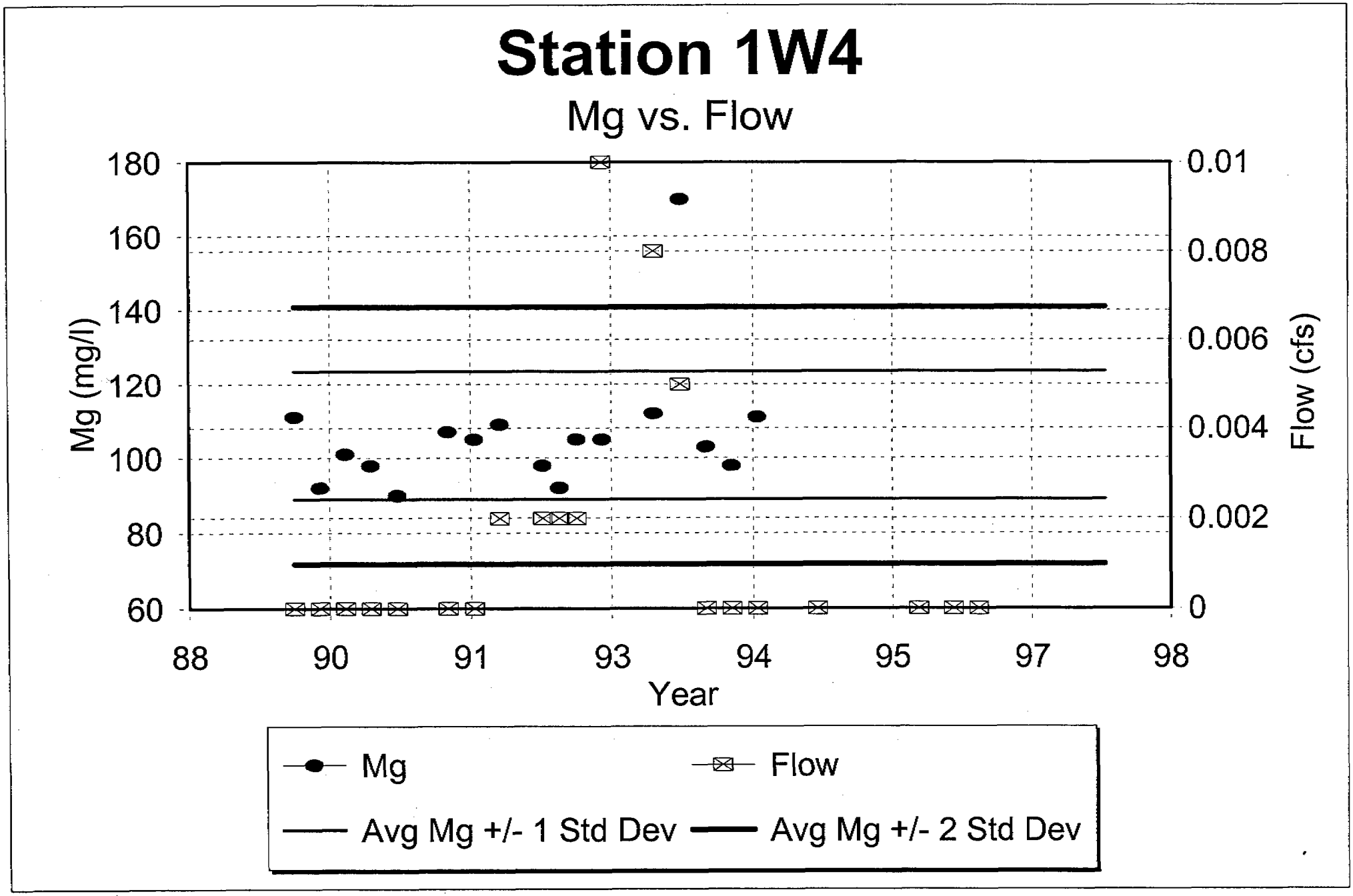
Station: 1WN6 | Property: Star Point | Location: 1500' N 500' E of SW corn. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: March 3, 1998 | Elevation: about 8500

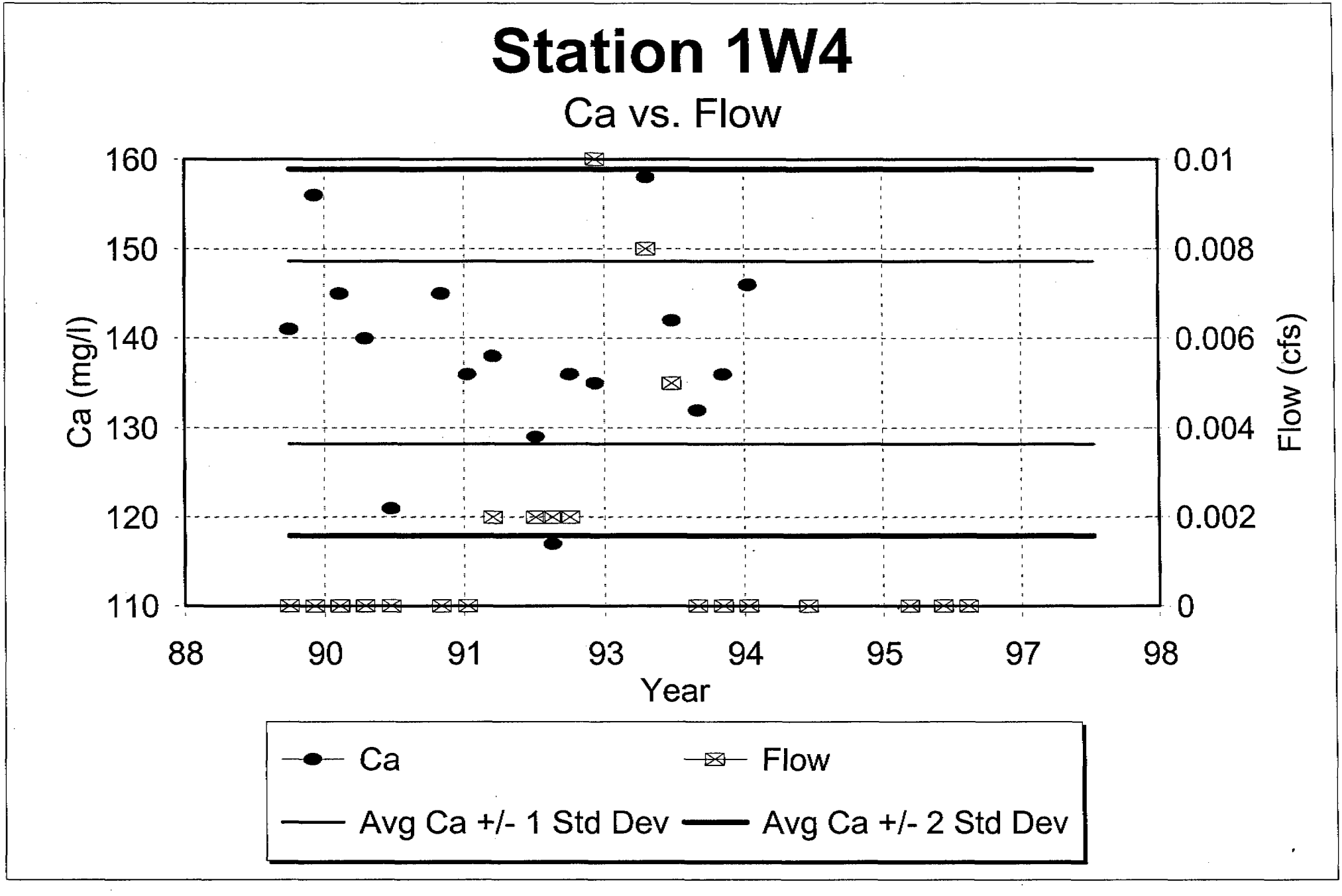
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/17/85	0.08				715																
Jul-85	07/25/85	0.05				644																
Aug-85	08/29/85	0.03	8			606	3			337	1	5	265	68	64	3	2	<	0.05	0.14	0.03	
Sep-85																						
Oct-85	10/29/85	0.01	7.7			658	6			382	1	4	225	102	69	4	5	<	0.05	0.05	0.01	
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/19/86	0	7.6			720	7			301		5	350	114	77	4	5	<	0.05	0.08	< 0.01	
Apr-86																						
May-86																						
Jun-86	06/18/86	0.06	7.2		4.4	752				383		5	340	124	86	4.3	4.6	<	0.05	0.24	0.05	
Jul-86																						
Aug-86																						
Sep-86	09/16/86	0.06	8.2	798	5	643				387	1	6	250	120	69	4	4	<	0.05	0.16	0.02	
Oct-86																						
Nov-86																						
Dec-86	12/18/86	0.01	8.2			716				373		13	280	118	68	13.9	5.5	<	0.05	0.31	0.01	
Jan-87																						
Feb-87																						
Mar-87	03/18/87	0.01				572				338		4	250	89	75	3	5		0.16	7.24	0.03	
Apr-87																						
May-87																						
Jun-87	06/08/87	0.01	8.5	1000	7	702				366		6	325	141	84	5	4		0.57	0.57	0.02	
Jul-87																						
Aug-87																						
Sep-87	09/25/87	0	7.9	1300	5	736			616	371		4	321	102	88	3	6	<	0.02	0.34	0.01	
Oct-87																						
Nov-87																						
Dec-87	12/16/87	0				700			612	281		9	340	102	106	3	4	<	0.02	0.33	< 0.01	
Jan-88																						
Feb-88																						
Mar-88	03/23/88	0	8.2	900	15	776			645	279		5	403	112	93	3	4	<	0.02	1.21	0.01	
Apr-88	04/15/88	0	8.1	705	15	824			683	256		5	438	132	93	5	6		0.03	0.14	< 0.01	
May-88																						
Jun-88																						
Jul-88	07/27/88	0.01	8.2	700	13.5	772			617	316		5	372	104	87	3	5		0.31	0.47	0.02	
Aug-88																						
Sep-88																						
Oct-88	10/27/88	0	8.2	700	7	796			670	295		5	416	122	89	4	4		0.17	6.9	< 0.01	
Nov-88																						
Dec-88																						
Jan-89	01/25/89	0	7.4	870	10	910			769	237		5	515	142	101	5	6		0.04	0.75	0.01	
Feb-89																						
Mar-89																						
Apr-89	04/28/89	0	7.6	810	6	976			764	234		5	576	135	104	4 <	1	<	0.02	0.23	< 0.01	
May-89																						
Jun-89																						
Jul-89	07/12/89	0																				NO FLOW
Aug-89																						
Sep-89																						
Oct-89	10/25/89	0																				NO FLOW
Nov-89																						
Dec-89																						
Jan-90	01/16/90	0																				NO FLOW
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90	07/02/90	0																				NO FLOW
Aug-90																						
Sep-90																						
Oct-90	10/24/90	0																				NO FLOW
Nov-90																						
Dec-90																						

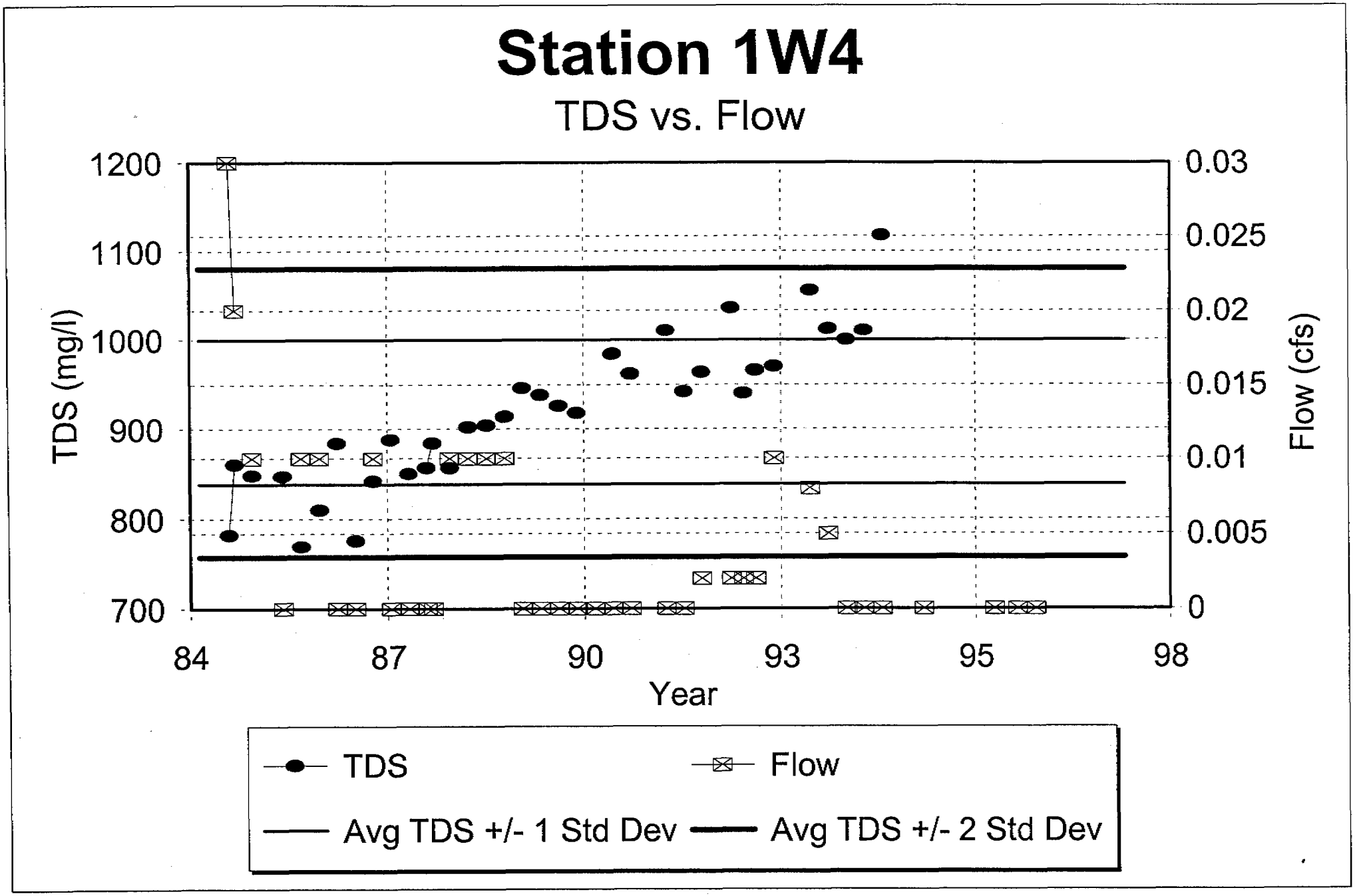

Station 1W4
SO4 vs. Flow
650
600
550
500
450
400
SO4 (mg/l)
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
88
90
91
93
94
95
97
98
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

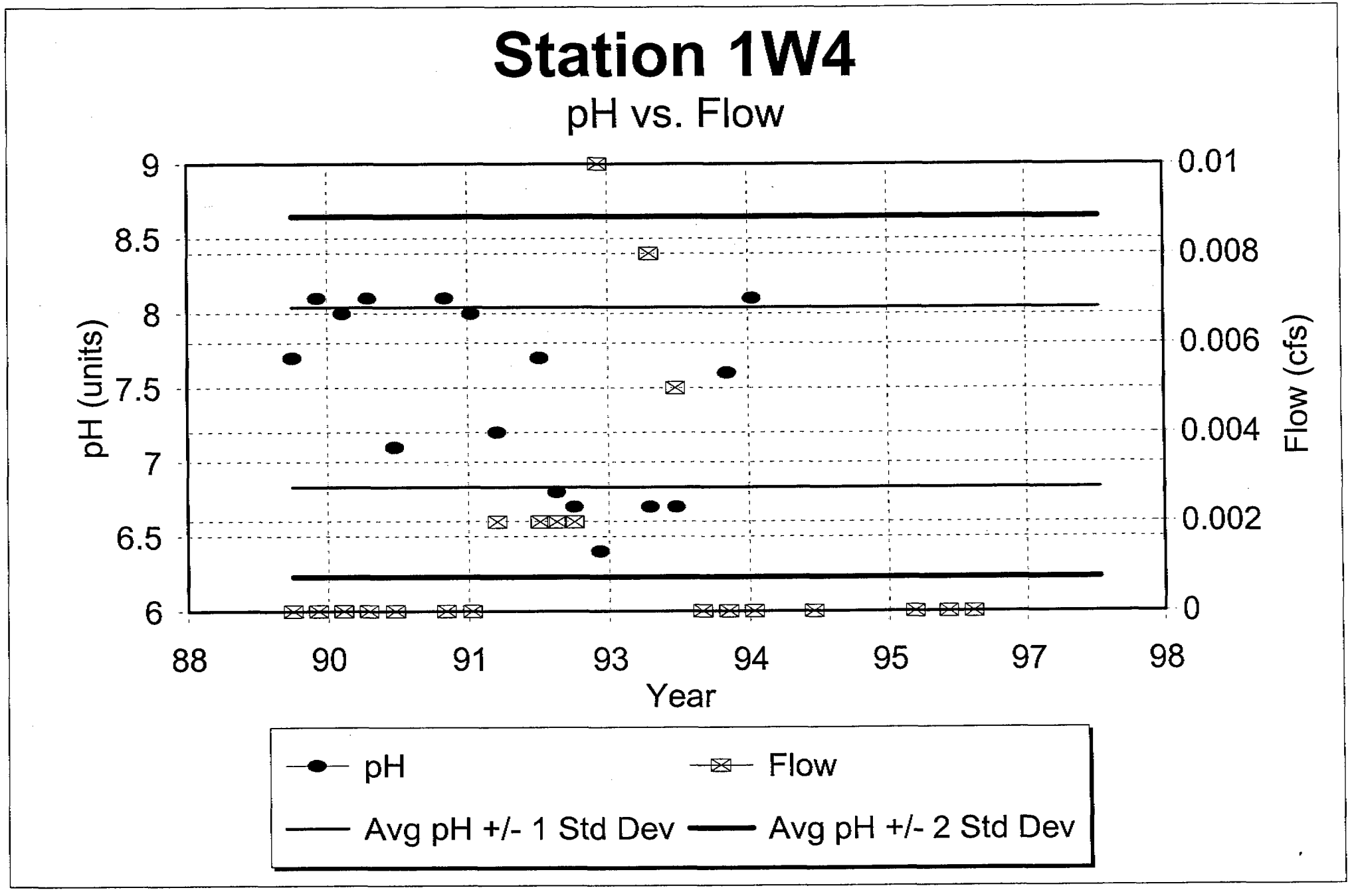

Station 1W4
HCO3 vs. Flow
HCO3 (mg/l)
340
320
300
280
260
240
220
200
180
Flow (cfs)
0.01
0.008
0.006
0.004
0.002
0
88
90
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 1W4
Cl vs. Flow
Cl (mg/l)
16
14
12
10
8
6
4
2
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
88
90
91
93
94
95
97
98
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 1W4
Mg vs. Flow
Mg (mg/l)
180
160
140
120
100
80
60
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
88
90
91
93
94
95
97
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

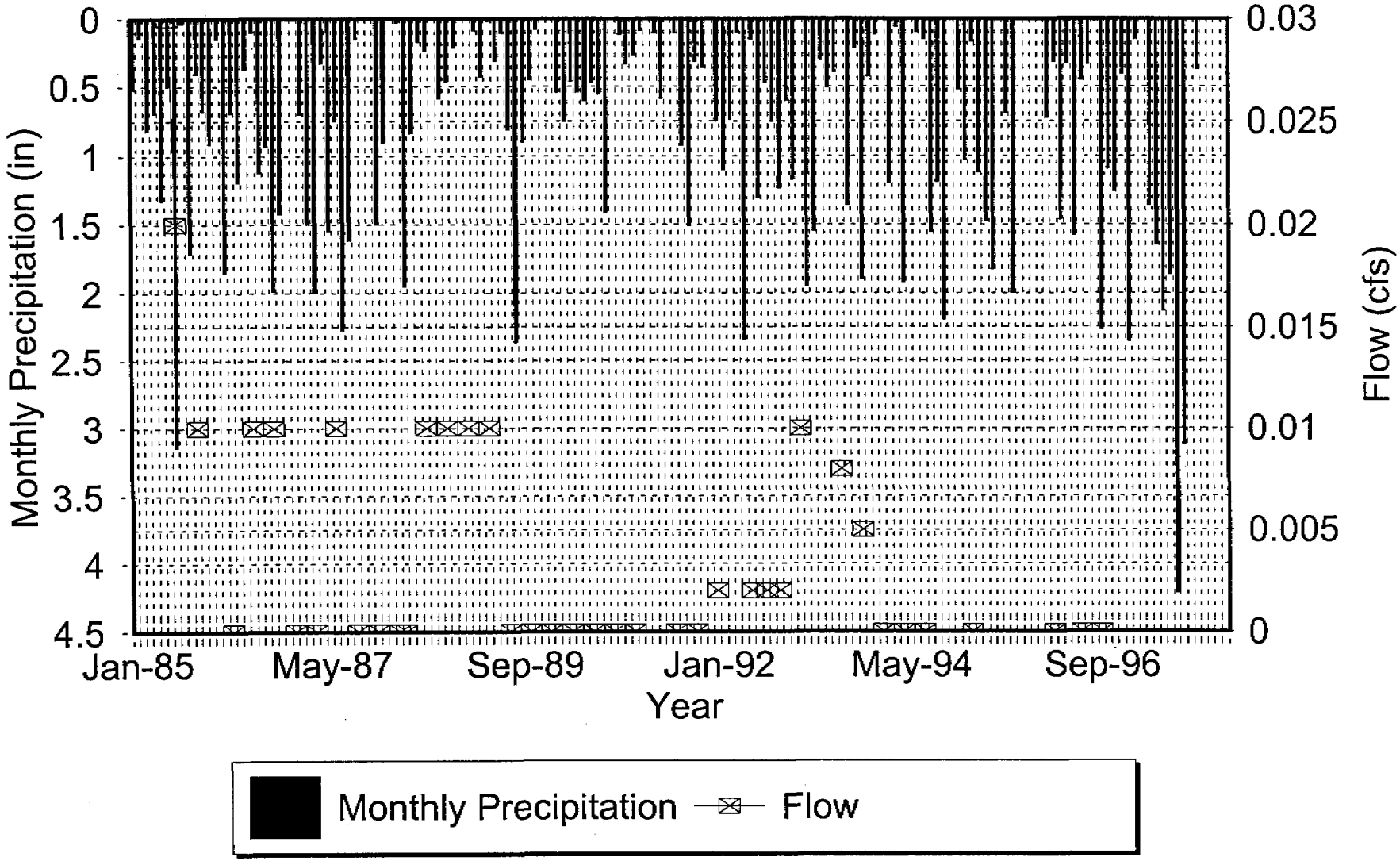

Station 1W4
Ca vs. Flow
160
150
140
130
120
110
Ca (mg/l)
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
88
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 1W4
TDS vs. Flow
TDS (mg/l)
1200
1100
1000
900
800
700
Flow (cfs)
0.03
0.025
0.02
0.015
0.01
0.005
0
84
87
90
93
95
98
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 1W4
pH vs. Flow
pH (units)
9
8.5
8
7.5
7
6.5
6
Flow (cfs)
0.01
0.008
0.006
0.004
0.002
0
88
90
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 1W4

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 2, 1998

Station: 1W4 | Property: Star Point | Location: 2125' N 1625' W of SE corn. Sec 7 T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97																						
Jul-97																						
Aug-97																						
Sep-97																						
Oct-97																						
Nov-97																						
Dec-97																						

END DATA

Count	40	16	15	15	35	1	0	17	16	12	17	17	17	17	17	17	0	17	17	17	
Minimum	0	6.4	1	6	769	990	ERR	670	188	0	5	471	117	90	5	5	ERR <	0.02 <	0.02 <	0.01	
Maximum	0.03	8.1	1514	10.2	1118	990	ERR	654	312	14	16	634	156	170	6	7	ERR <	0.09 <	5.22 <	0.05	
Average	0.004	7.4375	1012.9	7.92	919.14	990	ERR	766.76	273.19	3	8.7647	542	138.41	106.29	5.2353	5.6471	ERR <	0.0335 <	1.2806 <	0.0165	
Standard Deviation	0.0064	0.604	433.04	1.2978	80.841	0	ERR	46.056	32.346	4.8477	2.6685	48.073	10.233	17.265	0.4242	0.5882	ERR <	0.0227 <	1.6238 <	0.0113	
Avg. -1 Std. Dev.	-0.002	6.8335	579.84	6.6222	838.3	990	ERR	720.71	240.84	-1.848	6.0962	493.93	128.18	89.029	4.8111	5.0588	ERR <	0.0108 <	-0.343 <	0.0051	
Avg. +1 Std. Dev.	0.0105	8.0415	1445.9	9.2178	999.96	990	ERR	812.82	305.53	7.8477	11.433	590.07	148.64	123.56	5.6595	6.2353	ERR <	0.0563 <	2.9044 <	0.0278	
Avg. -2 Std. Dev.	-0.009	6.2295	146.79	5.3244	757.46	990	ERR	674.65	208.5	-6.695	3.4276	445.85	117.95	71.764	4.3869	4.4706	ERR <	-0.012 <	-1.967 <	-0.006	
Avg. +2 Std. Dev.	0.0169	8.6455	1879	10.516	1080.8	990	ERR	858.88	337.88	12.695	14.102	638.15	158.86	140.82	6.0837	6.8235	ERR <	0.079 <	4.5283 <	0.0392	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 2, 1998

Station: 1W4 | Property: Star Point | Location: 2125' N 1625' W of SE com. Sec 7 T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-91	01/22/91	0	7.1	1010		962			672			9	515	121	90	5	5	<	0.02	0.39	< 0.01		
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91																							
Jul-91	07/26/91	0	8.1	1060	8	1010			801	256	12	8	527	145	107	6	6	<	0.02	0.72	0.02		
Aug-91																							
Sep-91																							
Oct-91	10/28/91	0	8		8	942			771	293	0	8	543	136	105	5	6	<	0.02	0.05	< 0.01		
Nov-91																							
Dec-91																							
Jan-92	01/22/92	0.002	7.2	1060	6	964			792	229	0	15	552	138	109	6	6	<	0.02	0.09	< 0.01		
Feb-92																							
Mar-92																							
Apr-92																							
May-92																							
Jun-92	06/23/92	0.002	7.7	1.2	6.9	1036			724	264	0	9	574	129	98	5	5	<	0.02	2.33	< 0.01		
Jul-92																							
Aug-92	08/31/92	0.002	6.8	751	8.6	940	990		670	275	0	9	466	117	92	5	5		0.05	5.22	< 0.01		
Sep-92																							
Oct-92	10/31/92	0.002	6.7	1	6.8	966			771	244	14	16	587	136	105	5	5	<	0.02	1.86	< 0.01		
Nov-92																							
Dec-92																							
Jan-93	01/27/93	0.01	6.4	1514	6.3	970			768	300	0	8	572	135	105	5	6	<	0.02	0.05	< 0.01		
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93																							
Jul-93	07/21/93	0.008	6.7	1270	6.9	1056			854	268	5	7	593	158	112	6	6	<	0.02	< 0.02	< 0.01		
Aug-93																							
Sep-93																							
Oct-93	10/20/93	0.005	6.7	1229	10	1012			794	293	0	7	591	142	170	5	5		0.09	1.49	0.03		
Nov-93																							
Dec-93																							
Jan-94	01/27/94	0				1000			752	188	0	7	593	132	103	5	7		0.06	2.33	0.03	Meter Broken, No Data	
Feb-94																							
Mar-94																							
Apr-94	04/25/94	0	7.6	1310	10.2	1010			742	307	0	5	474	136	98	5	5		0.08	4.76	0.05		
May-94																							
Jun-94																							
Jul-94	07/20/94	0	8.1	1307	10.1	1118			820	246	5	7	634	146	111	6	6		0.05	2.32	0.03		
Aug-94																							
Sep-94																							
Oct-94	10/27/94																					Access Sealed Off	
Nov-94																							
Dec-94																							
Jan-95																						mine area sealed - no acc	
Feb-95	02/27/95	0																					
Mar-95																						site inaccessible	
Apr-95	04/27/95																						
May-95																							
Jun-95																							
Jul-95																							
Aug-95																							
Sep-95																							
Oct-95																							
Nov-95	11/28/95																					mine area sealed off - no	
Dec-95																							
Jan-96																						mine area sealed off - no	
Feb-96	02/21/96	0																					
Mar-96																							
Apr-96																							
May-96																						mine area sealed off - no	
Jun-96	06/26/96	0																					
Jul-96																							
Aug-96																						mine area sealed off - no	
Sep-96	09/30/96	0																					
Oct-96																							
Nov-96																							
Dec-96																							

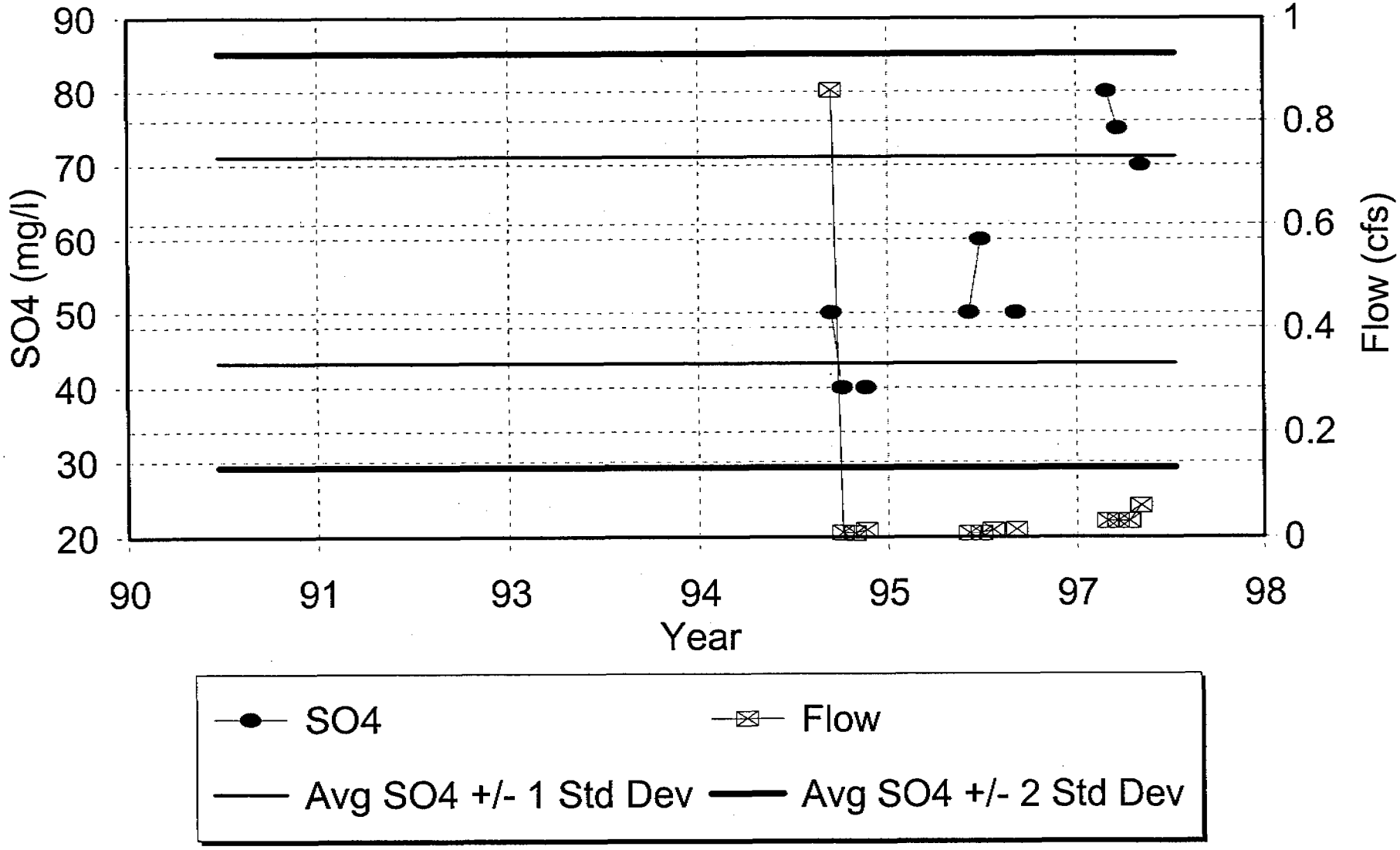
Cyprus Plateau Mining Company - Water Quality Data

Station: 1W4 | Property: Star Point | Location: 2125' N 1625' W of SE corn, Sec 7 T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: March 2, 1998 | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/17/85	0.03				762																
Jul-85	07/25/85	0.02				860																
Aug-85																						
Sep-85																						
Oct-85	10/29/85	0.01				848																
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/19/86	0				847																
Apr-86																						
May-86																						
Jun-86	06/18/86	0.01				769																
Jul-86																						
Aug-86																						
Sep-86	09/16/86	0.01				810																
Oct-86																						
Nov-86																						
Dec-86	12/16/86	0				864																
Jan-87																						
Feb-87																						
Mar-87	03/16/87	0				776																
Apr-87																						
May-87																						
Jun-87	06/08/87	0.01				842																
Jul-87																						
Aug-87																						
Sep-87	09/25/87	0				888																
Oct-87																						
Nov-87																						
Dec-87	12/16/87	0				850																
Jan-88																						
Feb-88																						
Mar-88	03/23/88	0				856																
Apr-88	04/15/88	0				884																
May-88																						
Jun-88																						
Jul-88	07/27/88	0.01				856																
Aug-88																						
Sep-88																						
Oct-88	10/27/88	0.01				902																
Nov-88																						
Dec-88																						
Jan-89	01/25/89	0.01				904																
Feb-89																						
Mar-89																						
Apr-89	04/28/89	0.01				914																
May-89																						
Jun-89																						
Jul-89	07/12/89	0				946																
Aug-89																						
Sep-89																						
Oct-89	10/25/89	0				938																
Nov-89																						
Dec-89																						
Jan-90	01/16/90	0	7.7	1040	7	926			808	312		9	488	141	111	5	6	<	0.02	0.02 <	0.01	
Feb-90																						
Mar-90																						
Apr-90	04/18/90	0	8.1	1310	8	918			767	288		9	502	156	92	5	6	<	0.02	0.02 <	0.01	
May-90																						
Jun-90																						
Jul-90	07/02/90	0	8	1260	6				777	301		8	512	145	101	5	5	<	0.02 <	0.02 <	0.01	Diss. Solids not iacluded
Aug-90																						
Sep-90																						
Oct-90	10/24/90	0	8.1	1050	8	984			752	267		8	471	140	98	5	6	<	0.02	0.06 <	0.01	
Nov-90																						
Dec-90																						

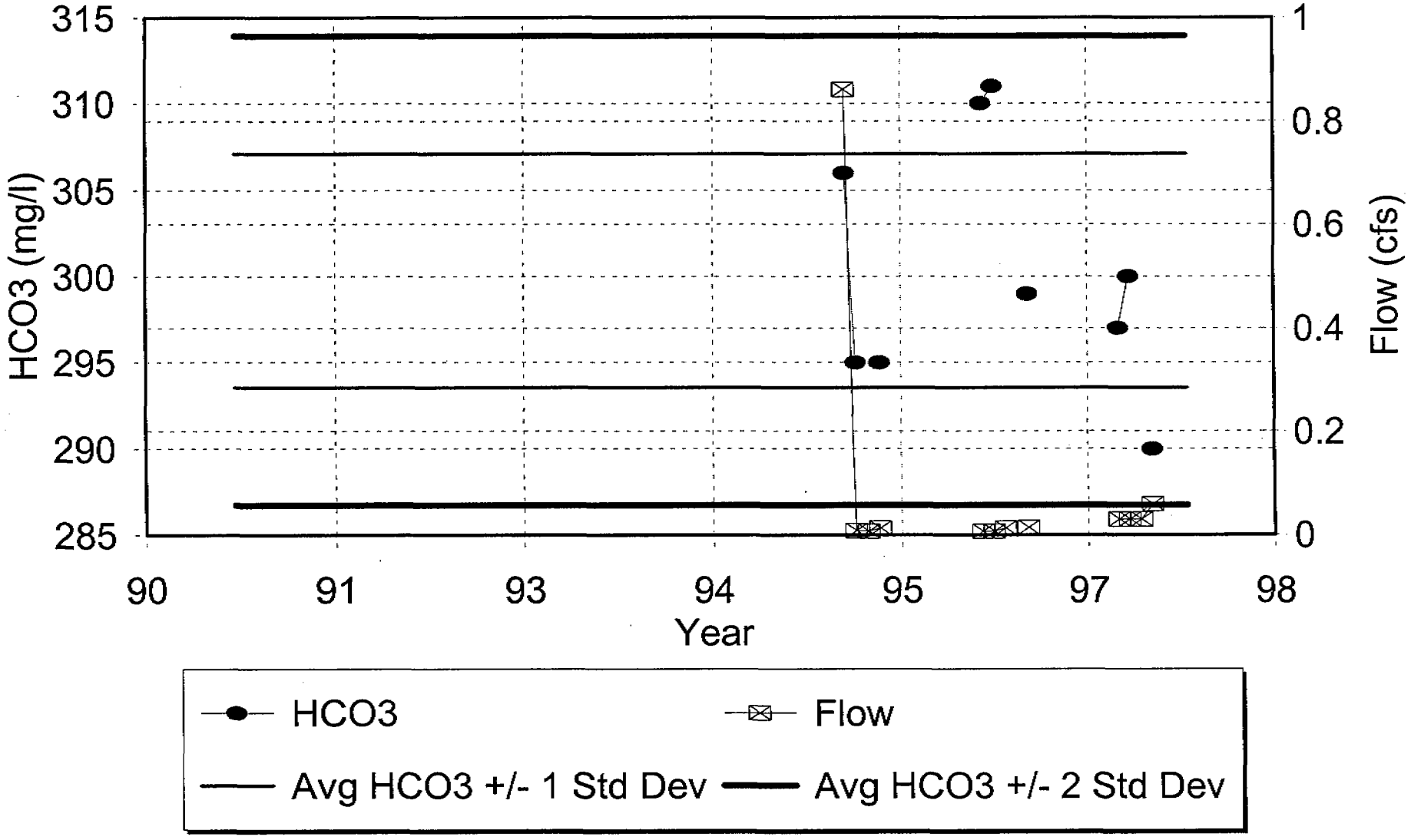
Station 85351

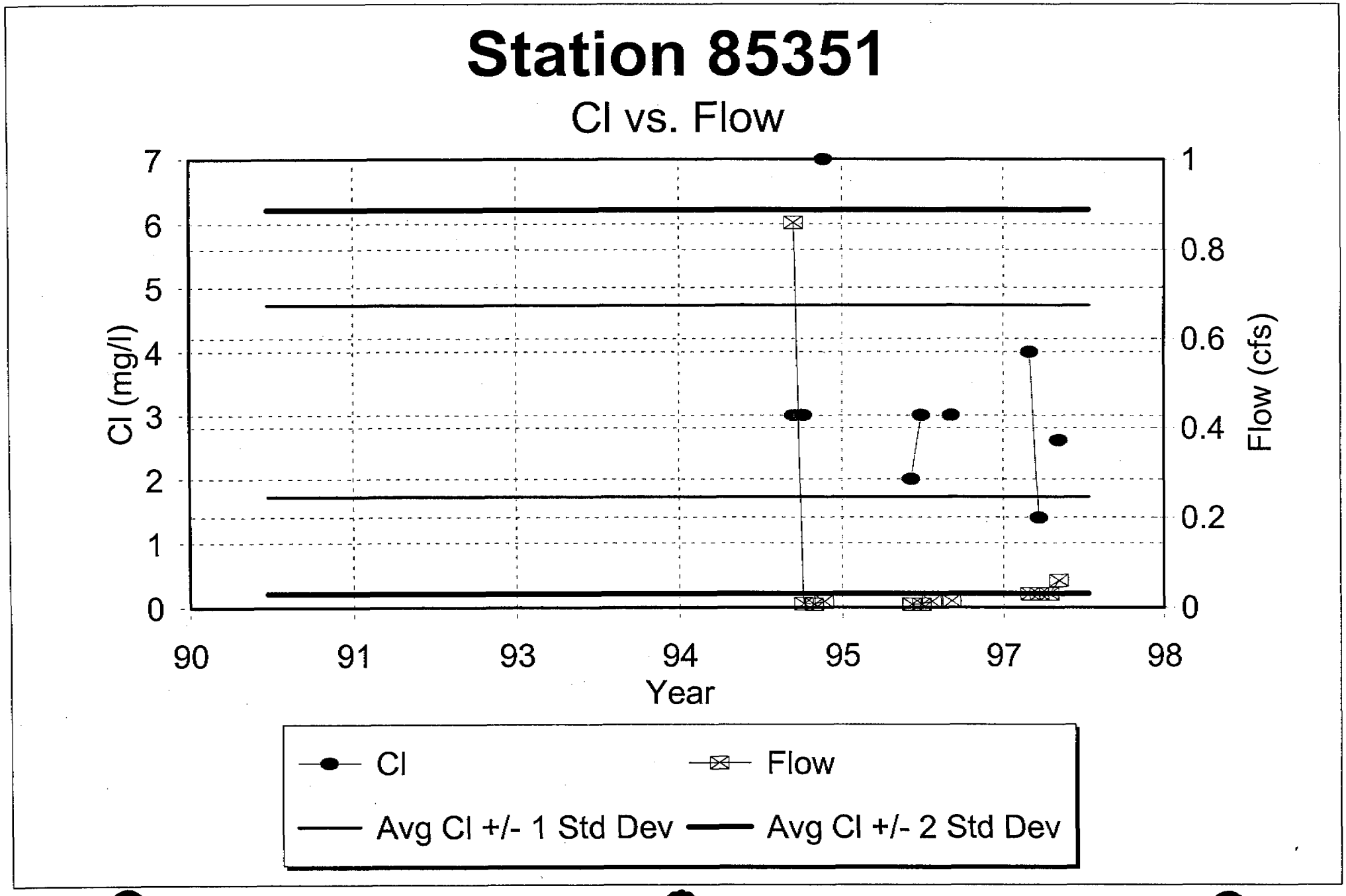
SO4 vs. Flow



Station 85351

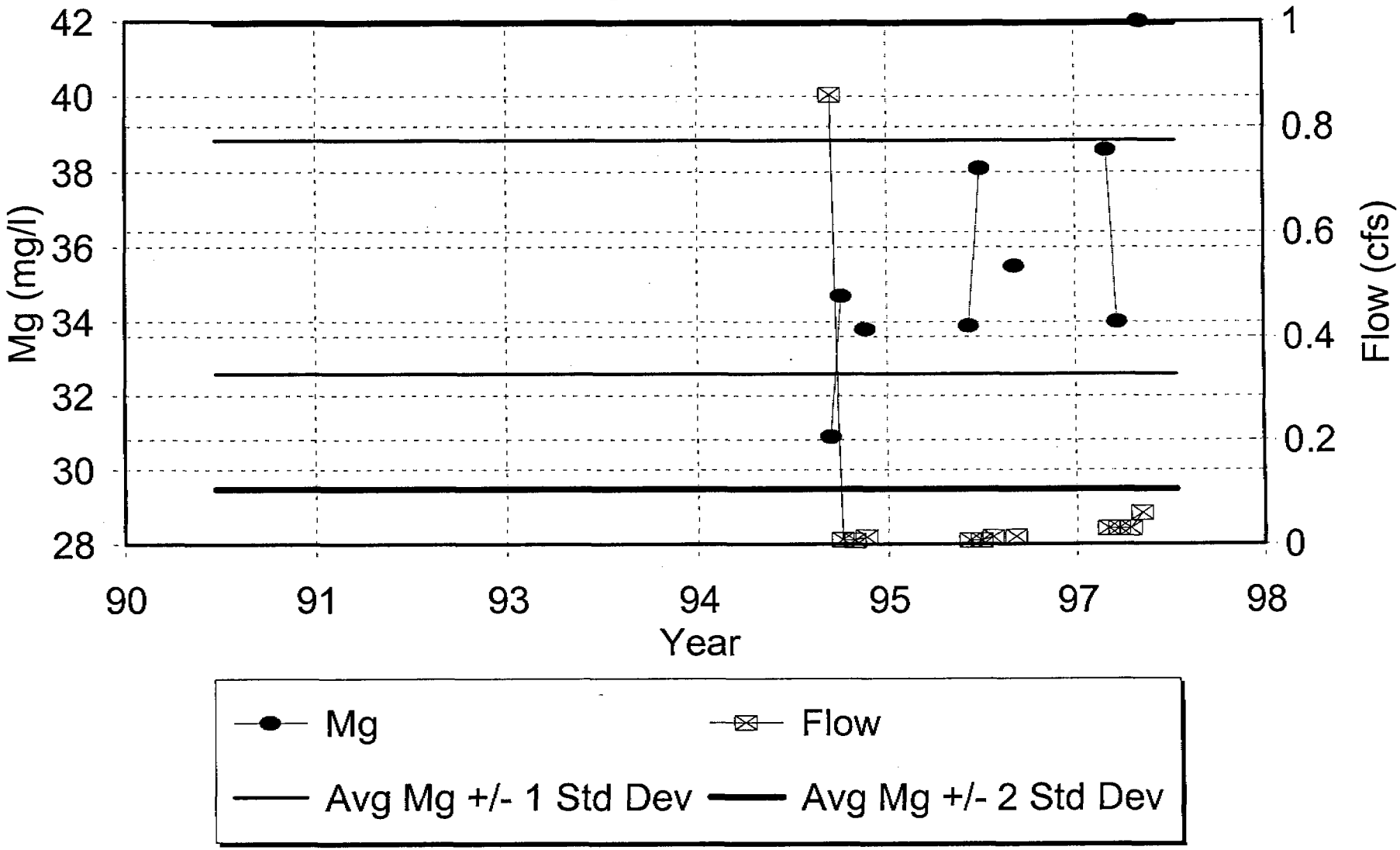
HCO3 vs. Flow

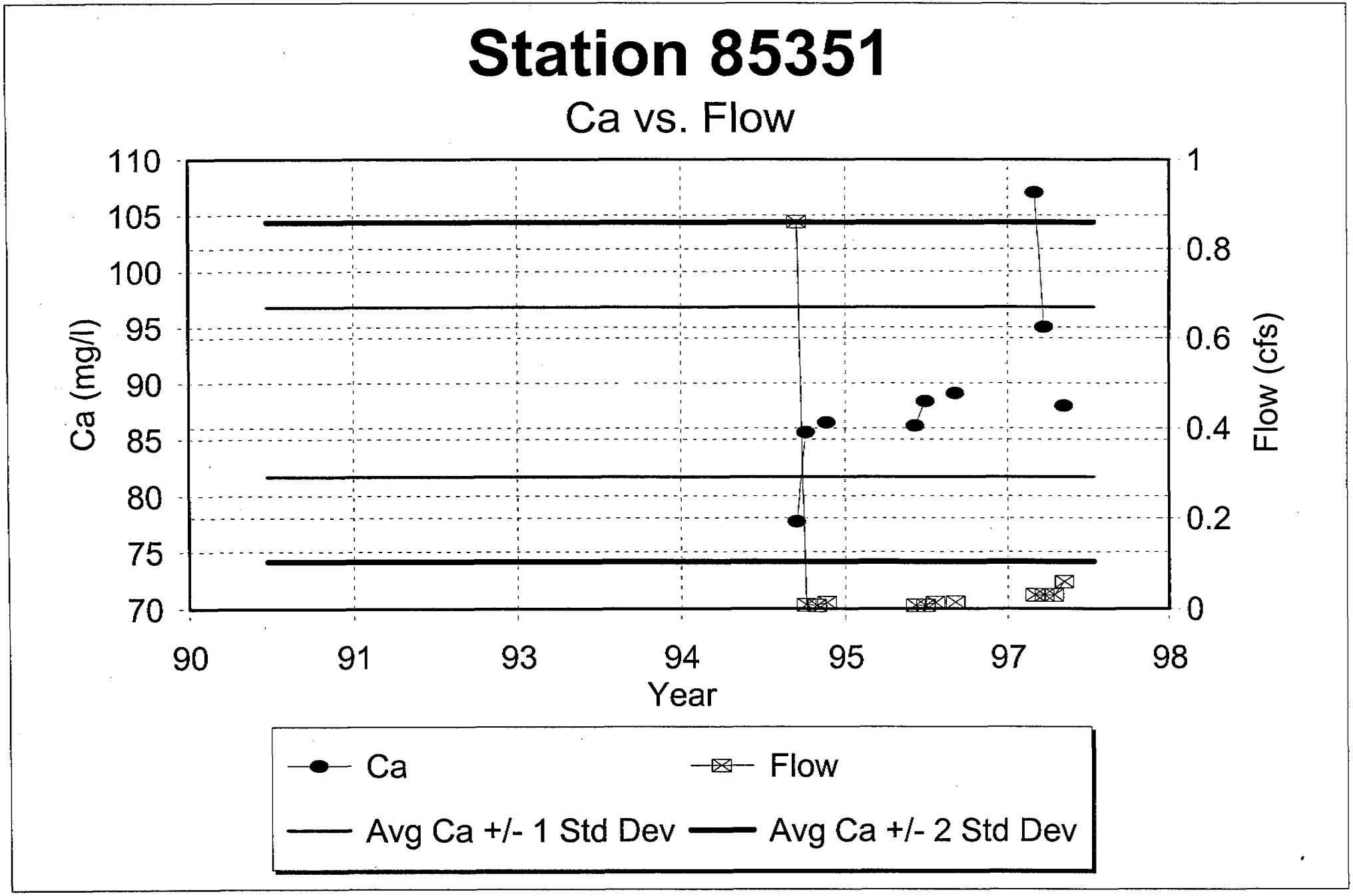



Station 85351
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
0
1
2
3
4
5
6
7
0
0.2
0.4
0.6
0.8
1
90
91
93
94
95
97
98
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

Station 85351

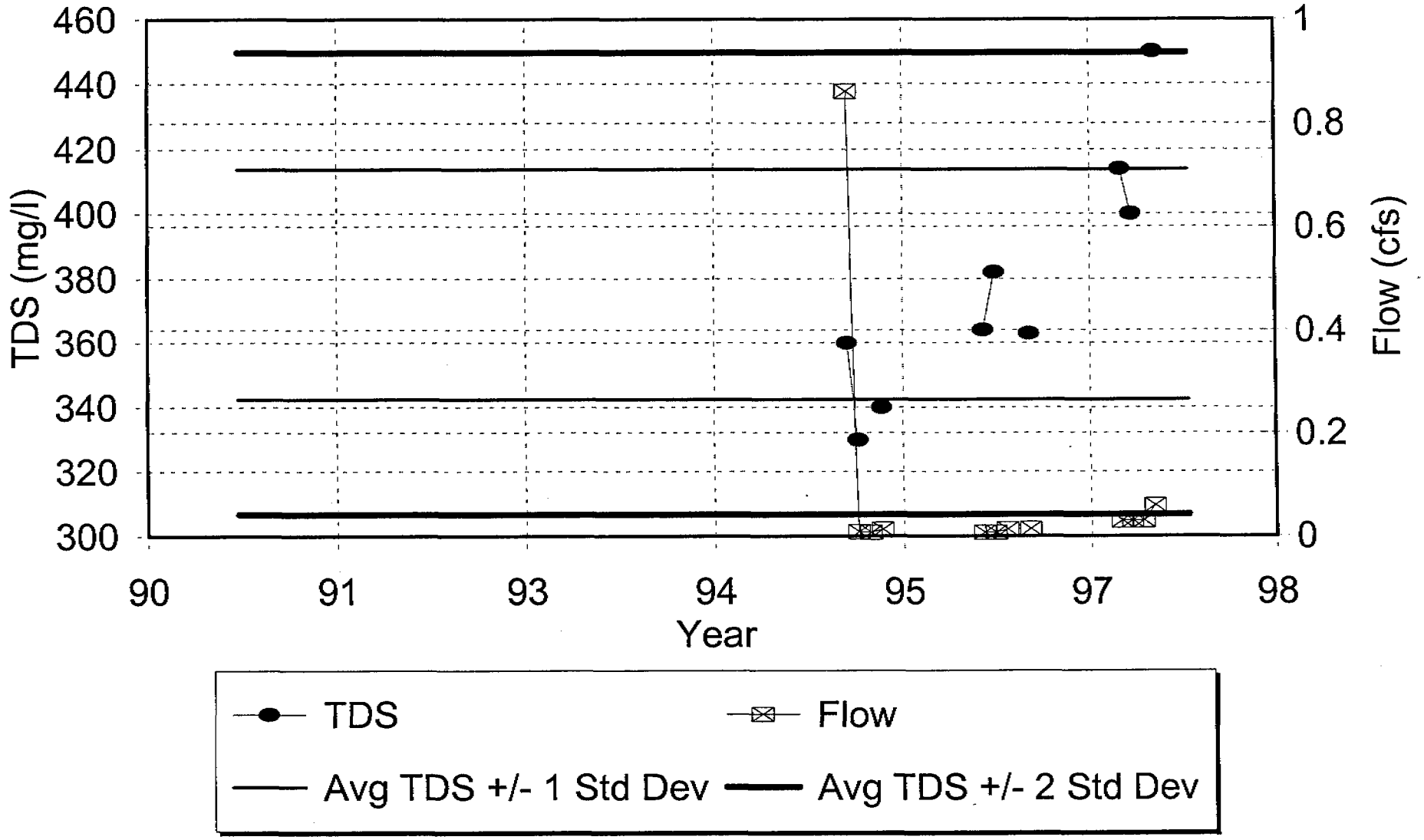
Mg vs. Flow




Station 85351
Ca vs. Flow
110
105
100
95
90
85
80
75
70
Ca (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

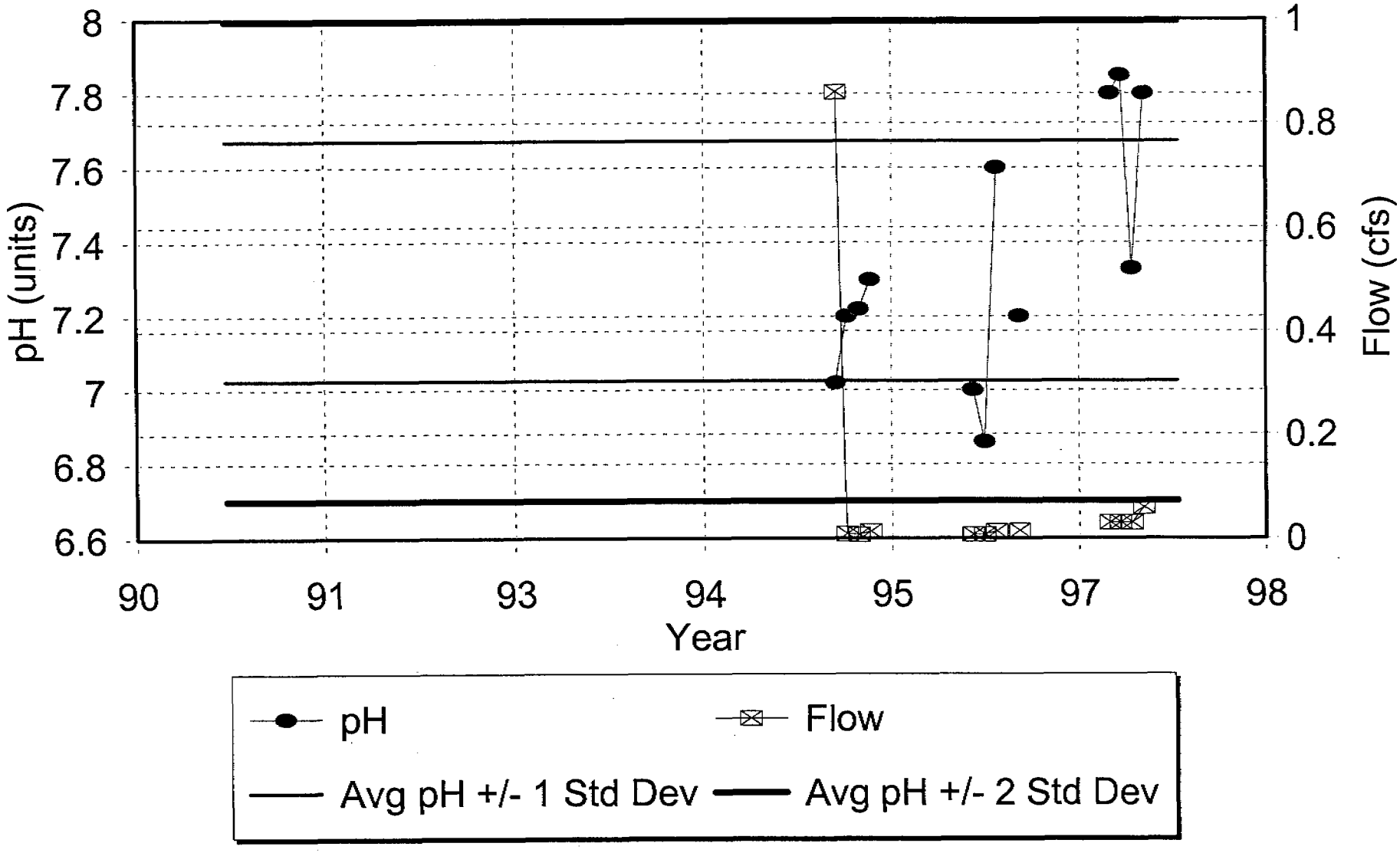
Station 85351

TDS vs. Flow



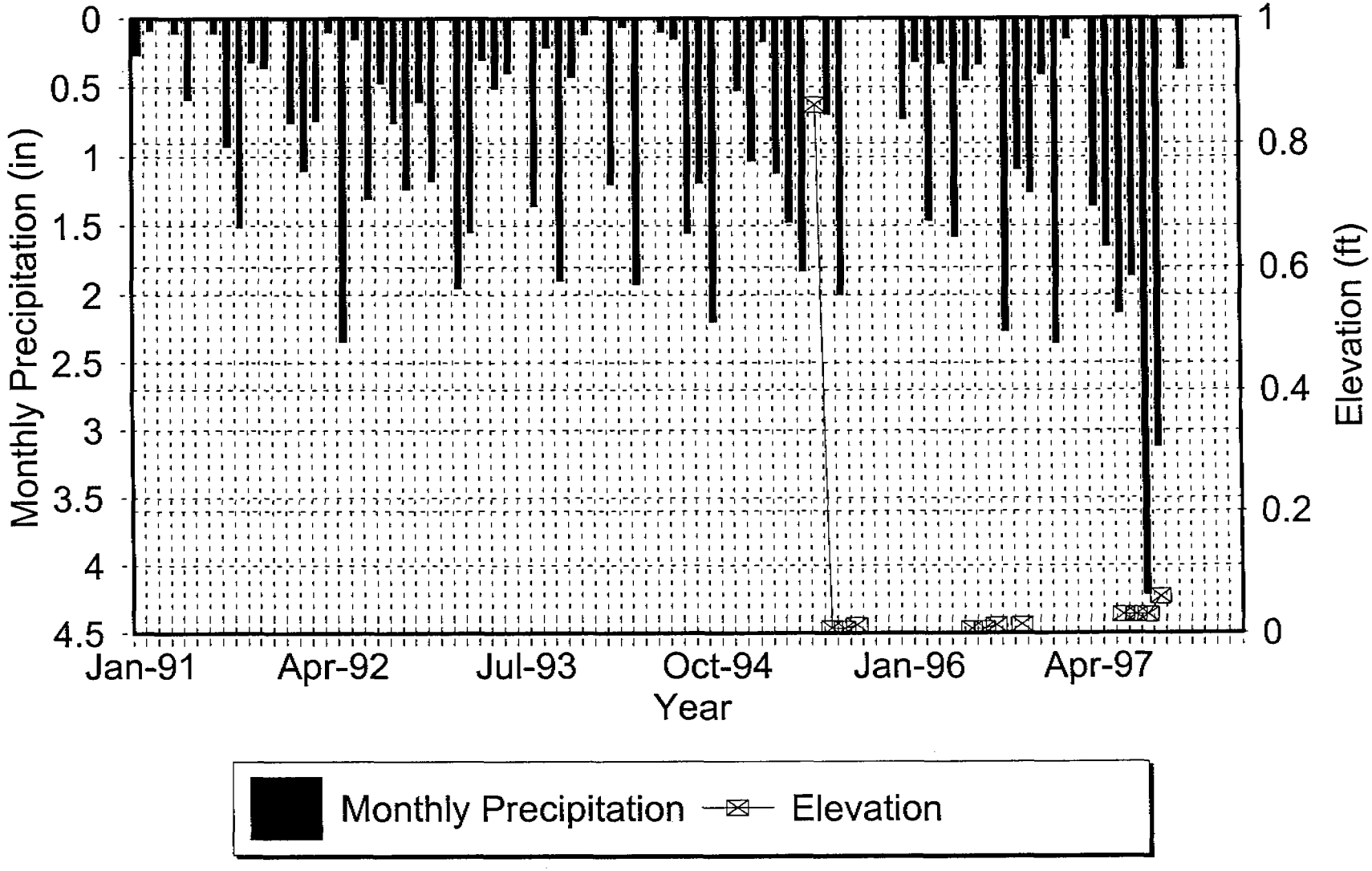
Station 85351

pH vs. Flow



Station 85351

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 85351 | Property: Star Point | Location: 1500' N 625' E of SW com. Sec 35, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 8040

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.03	7.8	690	11	414			426	297	2 <	4	80	107	38.6	2.4	3.5	6.1	0.11	0.52	0.027	
Jul-97	07/30/97	0.03	7.85	640	10	400			380	300	10 <	1.4	75	95	34	2.4	3.5	0.98	0.02	0.68	0.024	
Aug-97	08/13/97	0.03	7.33	725	10																	
Sep-97	09/16/97	0.06	7.8	481	6.5	450			390	290	10 <	2.6	70	88	42	2.8	3.9	4.9	0.01 <	0.67	0.03	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		12	12	12	12	9	0	0	9	9	9	9	9	9	9	9	9	9	9	9	9	
Minimum		0.007	6.86	461	6.5	330	ERR	ERR	321	290 <	2 <	1.4	40	77.7	30.9	2.1	3	-4.5	0.01 <	0.52	0.022	
Maximum		0.86	7.85	787	12	450	ERR	ERR	426	311 <	10 <	7	80	107	42	6.1	3.9	6.1	0.59 <	2.39	0.038	
Average		0.0699	7.3483	629.42	10.308	378.11	ERR	ERR	370.11	300.33 <	3.7778 <	3.2222	57.222	89.278	35.722	3	3.4222	2.1756	0.2156 <	0.94	0.0273	
Standard Deviation		0.2327	0.3232	74.884	1.2958	35.704	ERR	ERR	27.327	6.7987 <	3.3259 <	1.5009	13.966	7.5573	3.1212	1.8123	0.225	3.0056	0.1982 <	0.5532	0.0043	
Avg. -1 Std. Dev.		-0.143	7.0251	554.53	9.0125	342.41	ERR	ERR	342.78	293.53 <	0.4519 <	1.7213	43.256	81.72	32.601	1.1877	3.1972	-0.83	0.0173 <	0.3868	0.023	
Avg. +1 Std. Dev.		0.3226	7.6716	704.3	11.604	413.81	ERR	ERR	397.44	307.13 <	7.1037 <	4.7232	71.189	96.835	38.843	4.6123	3.6472	5.1812	0.4138 <	1.4932	0.0317	
Avg. -2 Std. Dev.		-0.375	6.7019	479.65	7.7167	306.7	ERR	ERR	315.46	286.74 <	-2.874 <	0.2203	29.289	74.163	29.48	-0.625	2.9723	-3.836	-0.181 <	-0.166	0.0187	
Avg. +2 Std. Dev.		0.5553	7.9948	779.18	12.9	449.52	ERR	ERR	424.77	313.93 <	10.43 <	6.2241	85.155	104.39	41.965	6.6246	3.8722	8.1868	0.612 <	2.0463	0.036	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

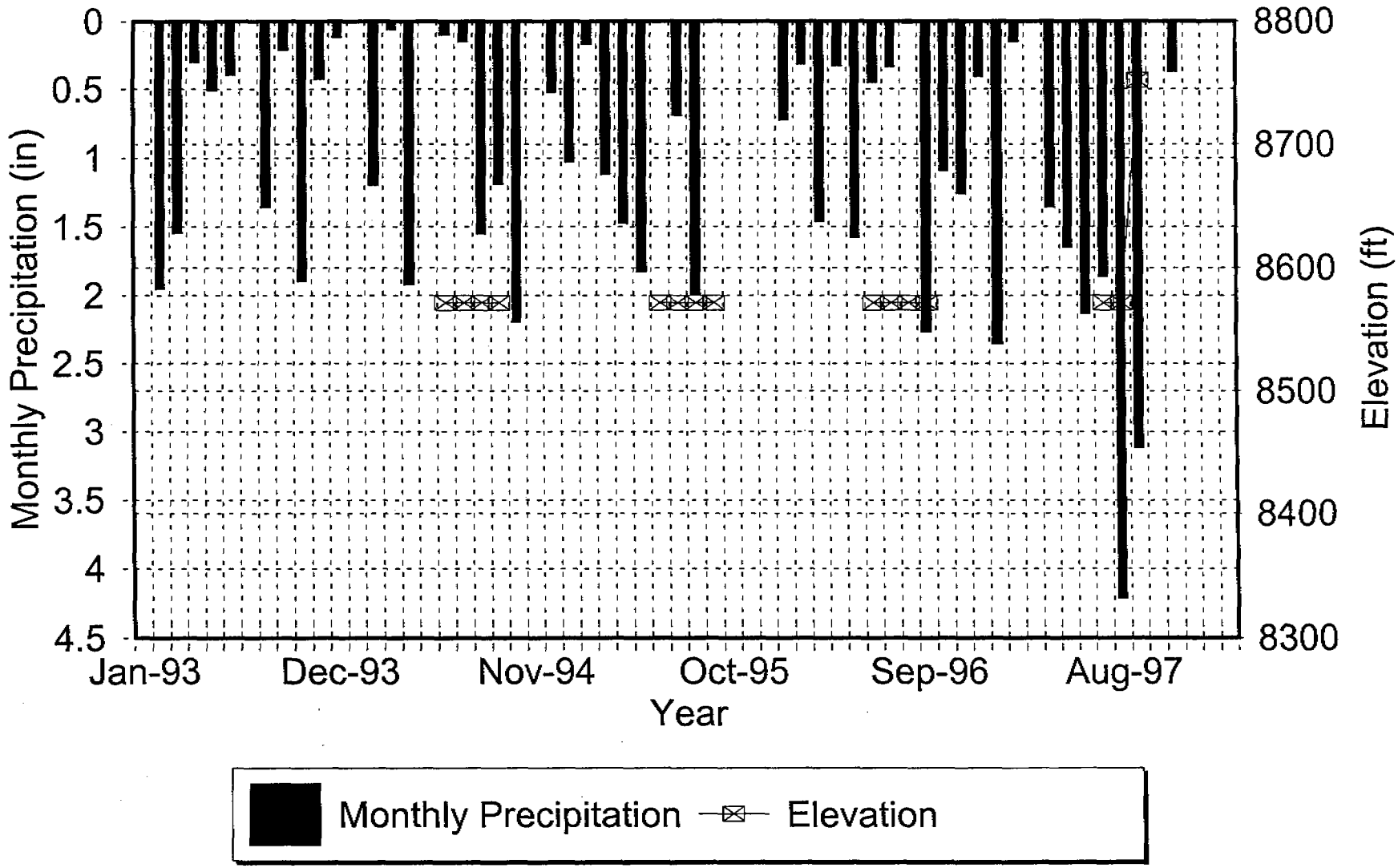
Print Date: February 27, 1998

Station: 85351 | Property: Star Point | Location: 1500' N 625' E of SW com. Sec 35, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 8040

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.86	7.02	604	10.2	360			321	306 <	2	3	50	77.7	30.9	2.3	3	-4.5	0.12	0.56	0.027	
Jul-95	07/26/95	0.008	7.2	607	11	330			357	295 <	2	3	40	85.6	34.7	2.4	3.5	3.8	0.31	1.19	0.025	
Aug-95	08/28/95	0.007	7.22	610	11																	
Sep-95	09/27/95	0.013	7.3	565	12	340			355	295 <	2	7	40	86.5	33.8	8.1	3.3	3.8	0.59	0.88	0.022	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/11/96	0.007	7	610	10	364			355	310	2 <	2	50	86.2	33.9	2.1	3.3	-0.1	0.09	0.59	0.026	
Jul-96	07/27/96	0.007	6.86	641	10	382			378	311	2 <	3	60	88.4	38.1	2.2	3.4	1.3	0.18	0.98	0.027	
Aug-96	08/19/96	0.013	7.6	593	11																	
Sep-96																						
Oct-96	10/01/96	0.014	7.2	787	11	363			369	299	2 <	3	50	89.1	35.5	2.3	3.4	3.3	0.51	2.39	0.036	
Nov-96																						

Station 92101

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 92101 | Property: Star Point | Location: 1875' S 500' W of NE corn. Sec 10, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 9138

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

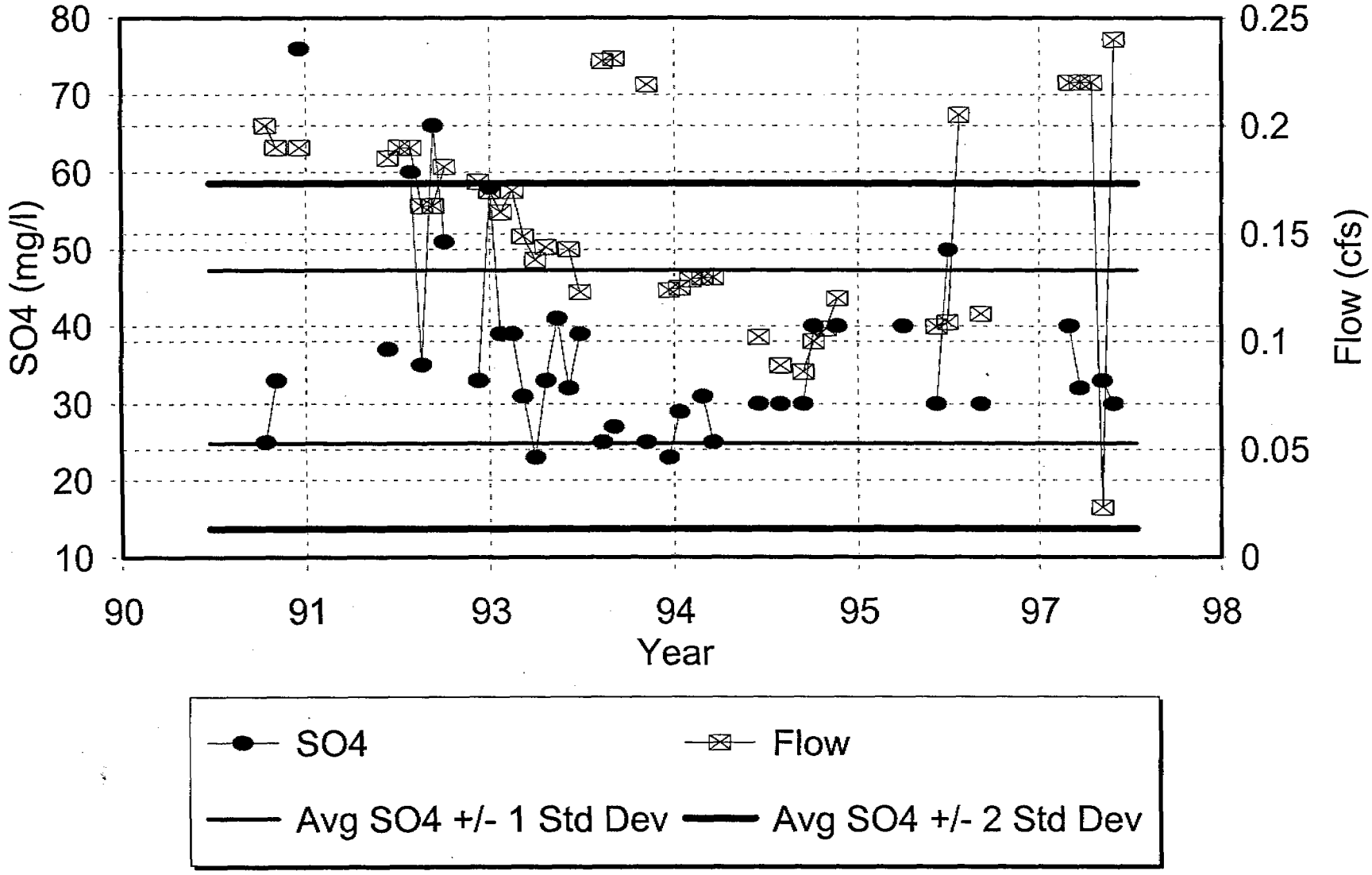
Print Date: February 27, 1998

Station: 92101 | Property: Star Point | Location: 1875' S 500' W of NE corn. Sec 10, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 9138

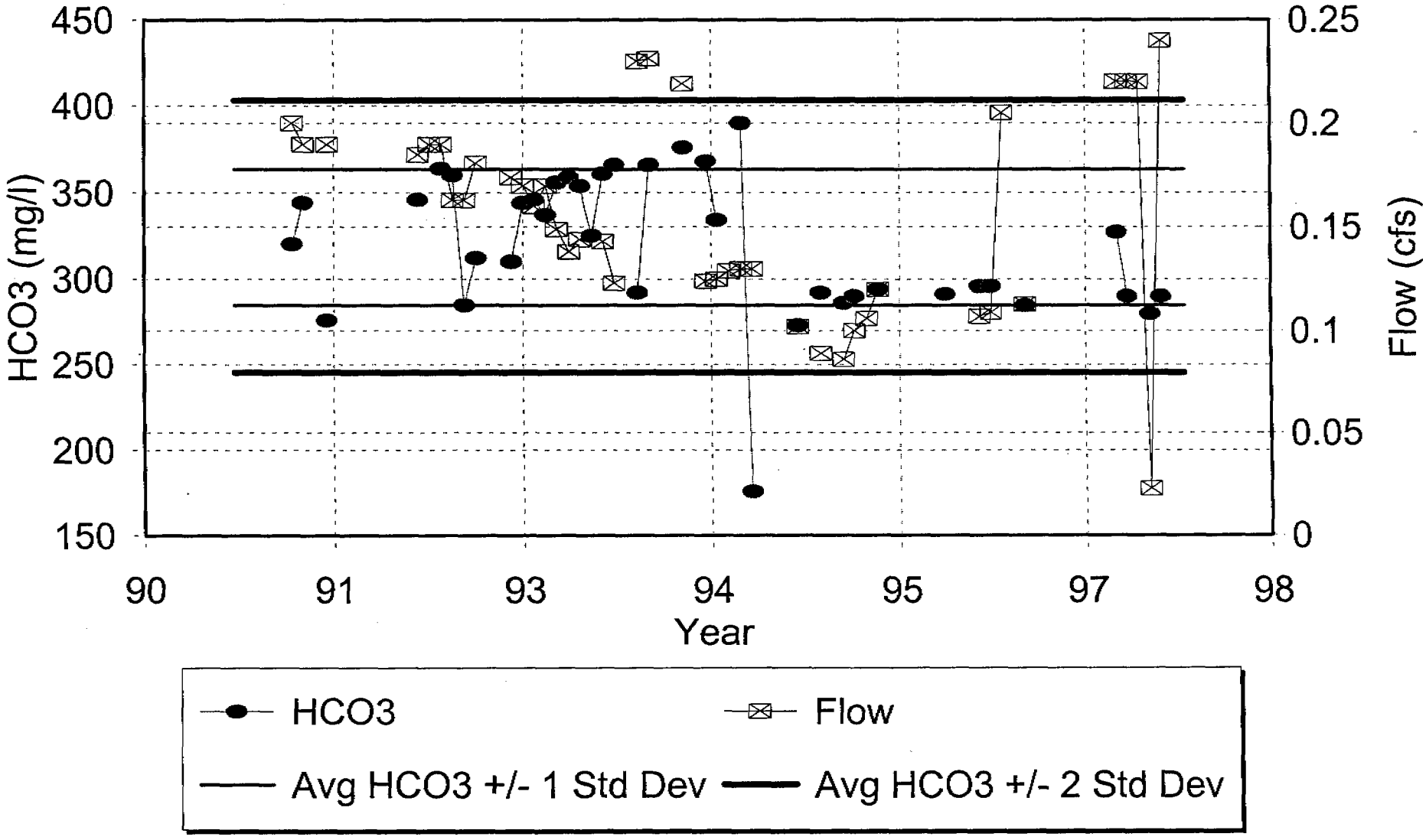
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93																							
Jul-93																							
Aug-93																							
Sep-93																							
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94		8571.5																					
Jul-94		8571.5																					
Aug-94		8571.5																					
Sep-94		8571.5																					
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/22/95	8571.5																					DRY
Jul-95		8571.5																					
Aug-95		8571.5																					
Sep-95		8571.5																					
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
Feb-96																							
Mar-96																							
Apr-96																							
May-96																							
Jun-96	06/12/96	8571.5																					DRY
Jul-96	07/23/96	8571.5																					DRY
Aug-96	08/19/96	8571.5																					DRY
Sep-96	09/30/96	8571.5																					DRY
Oct-96																							
Nov-96																							
Dec-96																							
Jan-97																							
Feb-97																							
Mar-97																							
Apr-97																							
May-97																							
Jun-97																							
Jul-97	07/30/97	8571.5																					DRY
Aug-97	08/13/97	8571.5																					DRY
Sep-97	09/16/97	8751.5																					DRY
Oct-97																							
Nov-97																							
Dec-97																							
END DATA																							
Count		15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Minimum		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Maximum		8751.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Average		8583.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Standard Deviation		44.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Avg. -1 Std. Dev.		8538.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Avg. +1 Std. Dev.		8628.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Avg. -2 Std. Dev.		8493.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		
Avg. +2 Std. Dev.		8673.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		

Station 863523

SO4 vs. Flow

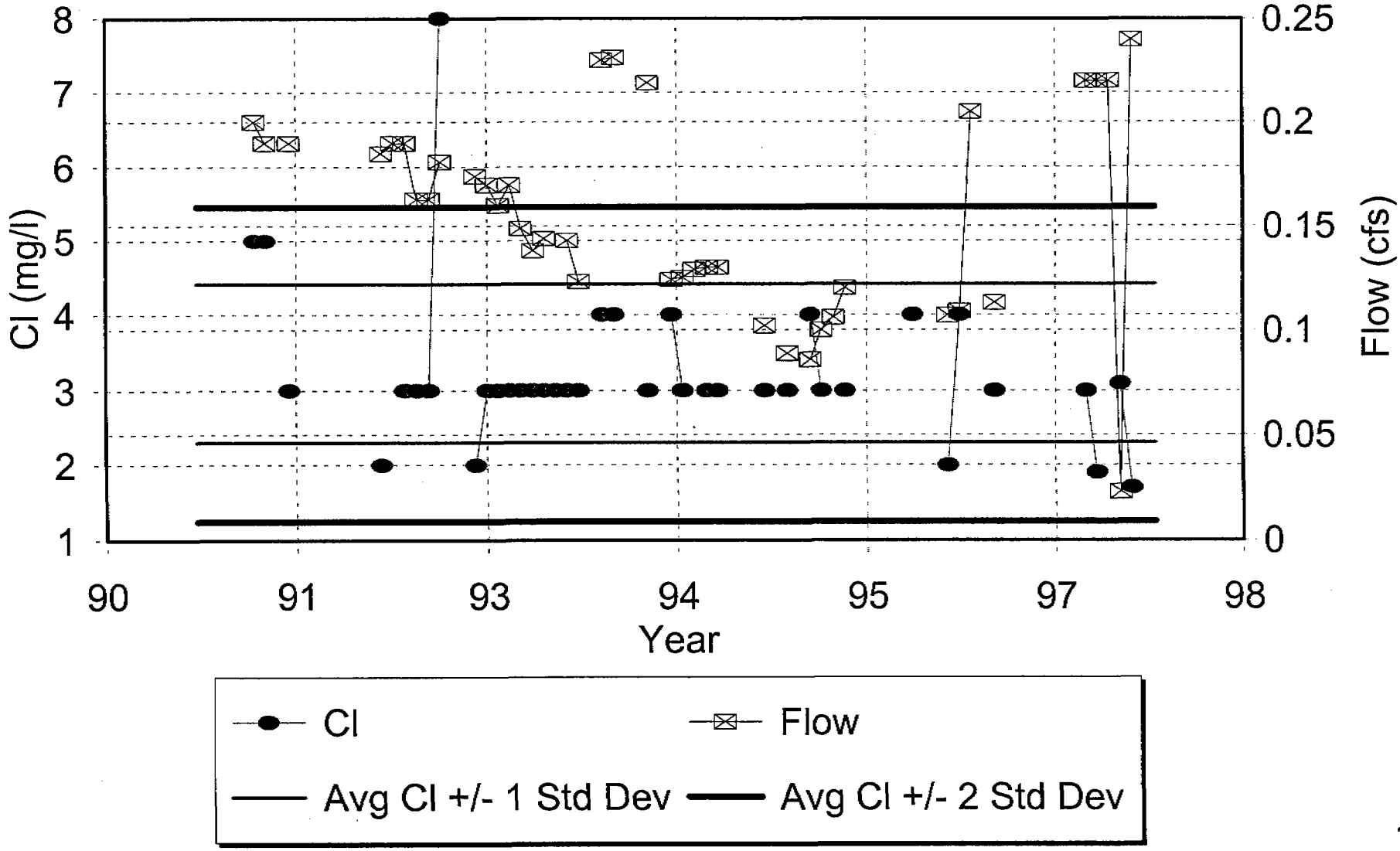


Station 863523



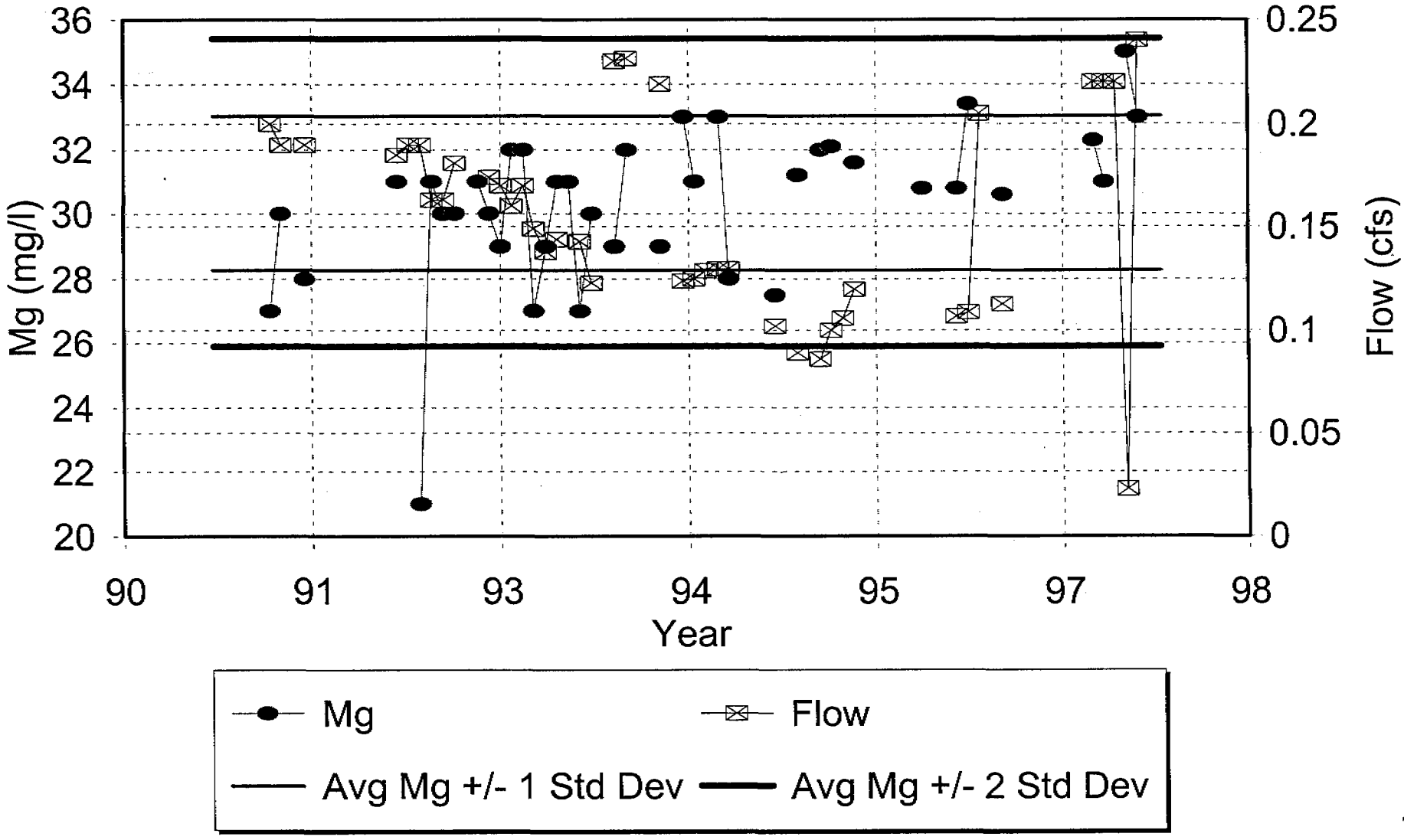
Station 863523

Cl vs. Flow



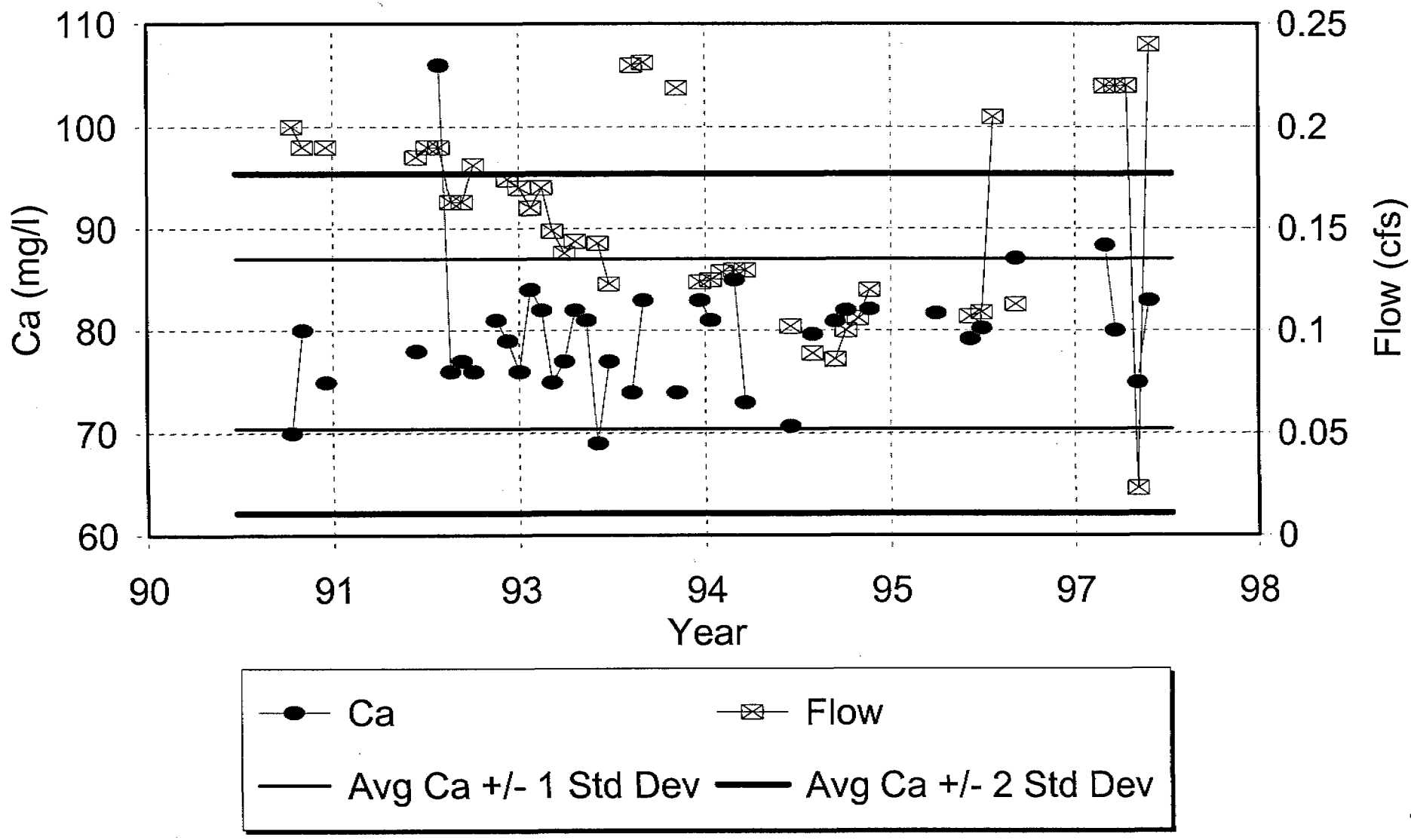
Station 863523

Mg vs. Flow

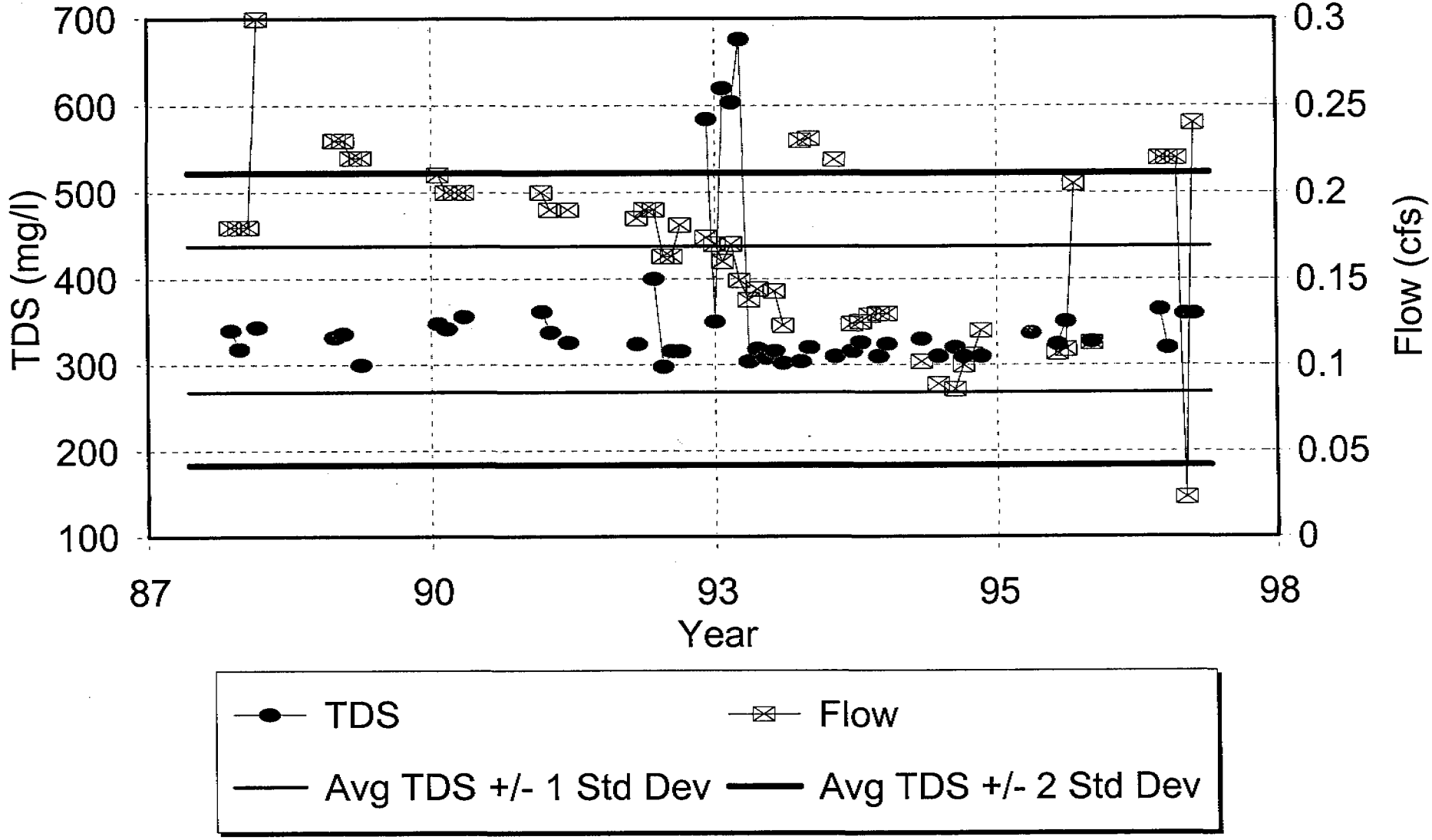


Station 863523

Ca vs. Flow

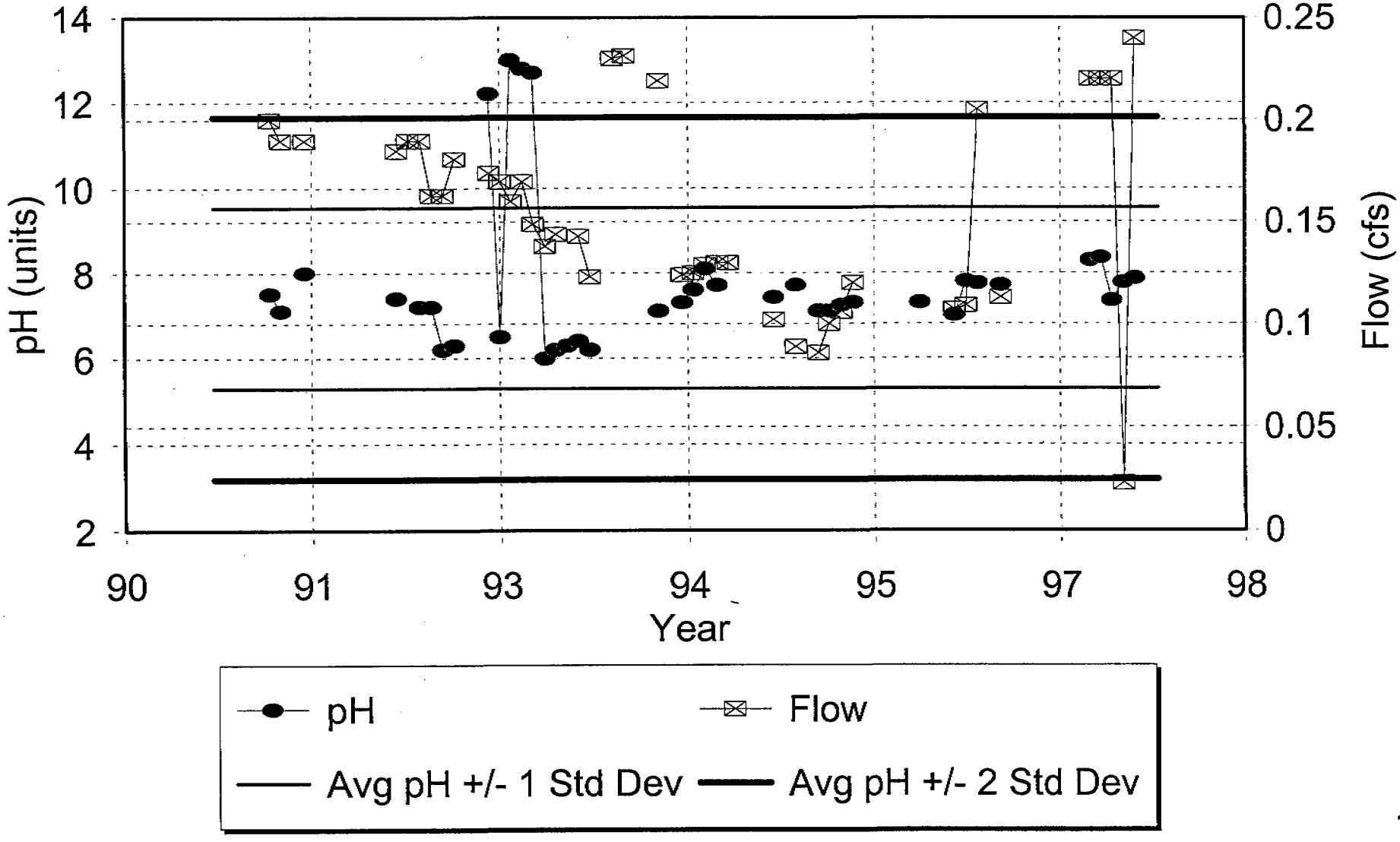


Station 863523



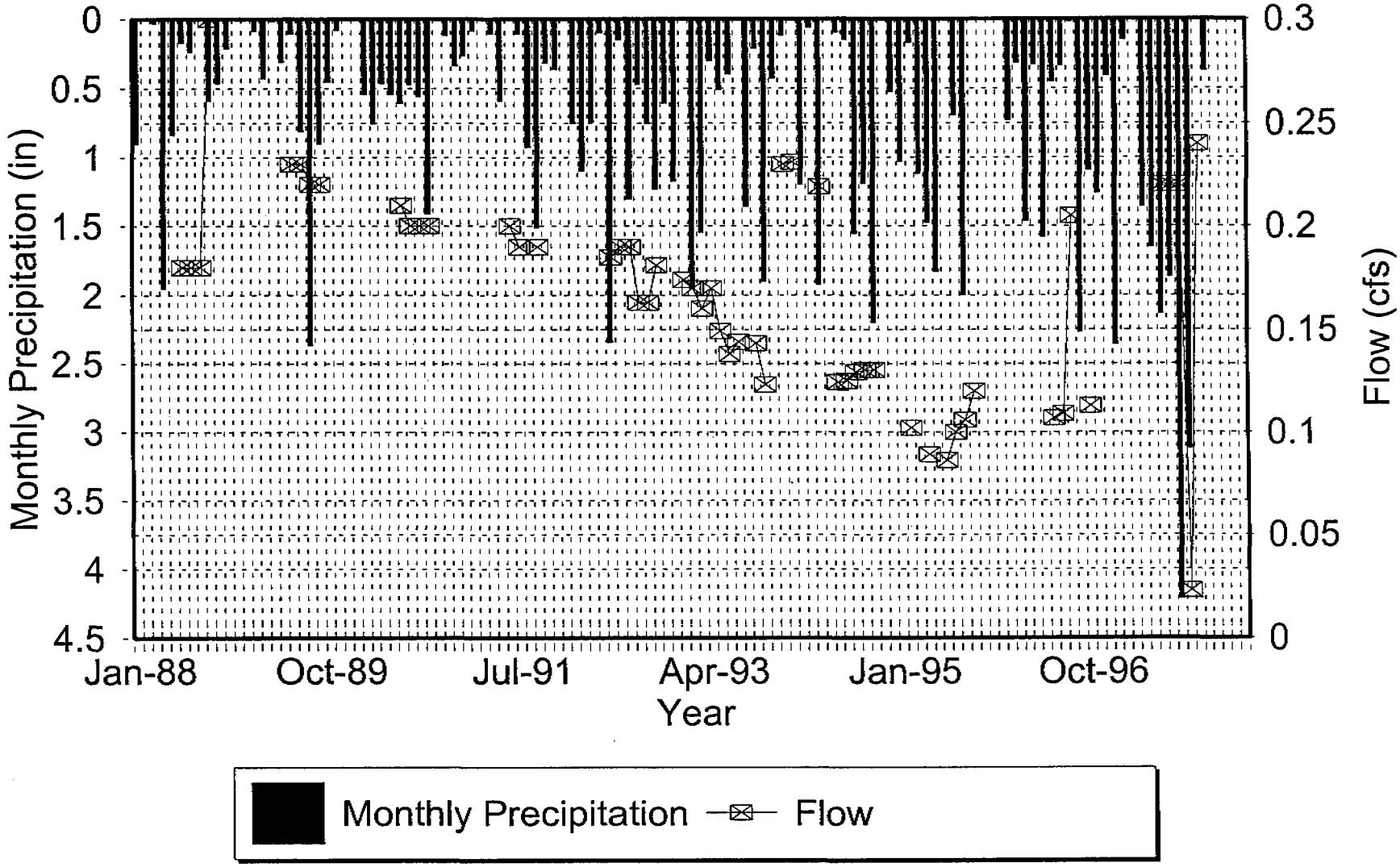
Station 863523

pH vs. Flow



Station 863523

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: March 25, 1998

Station: 863523 | Property: Star Point | Location: 1500' N 100' E of SW corn. Sec 35, T15S, R7E | Station Type: Spring/Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8020

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-94	01/25/94	0.231				320			339	366	0	4	27	83	32	2	4	<	0.02 <	0.02 <	0.01		
Feb-94																							
Mar-94																							
Apr-94	04/25/94	0.219	7.1	658	8.3	310			304	376	0	3	25	74	29	1	3	<	0.02 <	0.02 <	0.01		
May-94																							
Jun-94	06/28/94	0.124	7.3	642	8.3	316			343	368	0	4	23	83	33	2	4		0.02	0.06 <	0.01		
Jul-94	07/20/94	0.125	7.6	531	10.8	326			330	334	10	3	29	81	31	2	4	<	0.02	0.11 <	0.01		
Aug-94	08/31/94	0.129	8.1	492	13.5																		
Sep-94	09/21/94	0.13	7.7	522	14.8	310			348	390	0	3	31	85	33	2	4	<	0.02	0.04 <	0.01		
Oct-94	10/25/94	0.13				324			297	176	0	3	25	73	28	1	3	<	0.02 <	0.02 <	0.01		
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95	02/27/95	0.102	7.42	699	10	330	<	2	290	273 <	2	3	30	70.7	27.5	1.5	3.2	-1.7 <	0.01	0.05	0.009		
Mar-95																							
Apr-95	04/27/95	0.089	7.7	534	10.94	310	<	2	327	292 <	2	3	30	79.6	31.2	1.7	3.6	1.4 <	0.01	0.03	0.008		
May-95																							
Jun-95	06/22/95	0.086	7.1	588	9	320	<	2	334	286 <	2	4	30	80.9	32	1.7	3.6	3.1 <	0.01	0.02	0.006		
Jul-95	07/26/95	0.1	7.1	589	10	310	<	2	337	290 <	2	3	40	82	32.1	1.6	3.6	1.5 <	0.01	0.01	0.005		
Aug-95	08/28/95	0.106	7.23	604	9																		
Sep-95	09/27/95	0.12	7.3	670	9	310			335	294 <	2	3	40	82.1	31.6	1.6	3.5	0.6	0.02	0.01 <	0.005		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
Feb-96																							
Mar-96	03/12/96		7.3	633	12	337		2 <	331	291	2 <	4	40	81.7	30.8	1.6	4.3	0.5	0.01 <	0.01 <	0.01		
Apr-96																							
May-96																							
Jun-96	06/11/96	0.107	7	569	10	324			325	296	2 <	2	30	79.2	30.8	1.5	3.4	0.5	0.01 <	0.13	0.013		
Jul-96	07/24/96	0.109	7.8	585	8	351			338	296	2 <	4	50	80.2	33.4	1.7	3.7	-0.9	0.01 <	0.03	0.011		
Aug-96	08/19/96	0.205	7.75	535	9																		
Sep-96																							
Oct-96	10/01/96	0.113	7.7	657	9	327		4	344	285	2 <	3	30	87.1	30.6	1.5	3.6	4.8	0.01 <	0.02	0.006		
Nov-96																							
Dec-96																							
Jan-97																							
Feb-97																							
Mar-97	03/13/97																						Heavysnow pack-inacces
Apr-97																							
May-97																							
Jun-97	06/17/97	0.22	8.3	565	9	365			354	327	2 <	3	40	88.4	32.3	1.7	3.5	-1.3	0.01 <	0.04	0.005		
Jul-97	07/30/97	0.22	8.35	574	9	320			330	290	10 <	1.9	32	80	31	1.8	3.5	1.7	0.01 <	0.04	0.008		
Aug-97	08/13/97	0.22	7.35	590	9																		
Sep-97	09/16/97	0.023	7.77	628	9	360			330	280	10 <	3.1	33	75	35	2.1	3.8	3.5	0.01 <	0.15	0.008		
Oct-97	10/06/97	0.24	7.87	568	12	360			150	290	10 <	1.7	30	83	33	1.9	3.8	4.4	0.01 <	0.04	0.01		
Nov-97																							
Dec-97																							
END DATA																							
Count		53	51	51	53	47	1	7	47	47	38	47	47	48	48	48	48	13	48	48	48		
Minimum		0.023	6	405	0	298	4 <	0.2 <	150	176 <	0 <	1.7	19	46	21	1	2	-1.7 <	0 <	0 <	0		
Maximum		0.3	13	1236	19.6	676	4 <	4 <	682	390 <	17 <	8	76	106	35	3	5	4.8 <	0.33 <	0.98 <	0.03		
Average		0.1689	7.7165	612.67	9.7536	353.45	4 <	2.0286 <	346.11	324.38 <	3.6842 <	3.3553	36.128	78.769	30.652	1.7688	3.4188	1.3923 <	0.0244 <	0.0783 <	0.0097		
Standard Deviation		0.0507	1.5505	162.84	3.1264	84.679	0 <	1.0166 <	98.32	39.428 <	4.9263 <	1.0516	11.224	8.3099	2.3793	0.4104	0.529	2.0079 <	0.0451 <	0.1627 <	0.0036		
Avg. -1 Std. Dev.		0.1181	6.166	449.83	6.6272	268.77	4 <	1.012 <	247.79	284.95 <	-1.242 <	2.3037	24.903	70.459	28.273	1.3584	2.8897	-0.616 <	-0.021 <	-0.084 <	0.0061		
Avg. +1 Std. Dev.		0.2196	9.267	775.5	12.88	438.13	4 <	3.0452 <	444.43	363.81 <	8.6105 <	4.4069	47.352	87.079	33.031	2.1791	3.9478	3.4002 <	0.0695 <	0.2411 <	0.0133		
Avg. -2 Std. Dev.		0.0674	4.6155	287	3.5008	184.09	4 <	-0.005 <	149.47	245.53 <	-6.168 <	1.2521	13.679	62.149	25.893	0.948	2.3607	-2.623 <	-0.066 <	-0.247 <	0.0025		
Avg. +2 Std. Dev.		0.2704	10.817	938.34	16.006	522.81	4 <	4.0618 <	542.75	403.24 <	13.537 <	5.4585	58.576	95.389	35.411	2.5895	4.4768	5.408 <	0.1146 <	0.4038 <	0.0169		

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

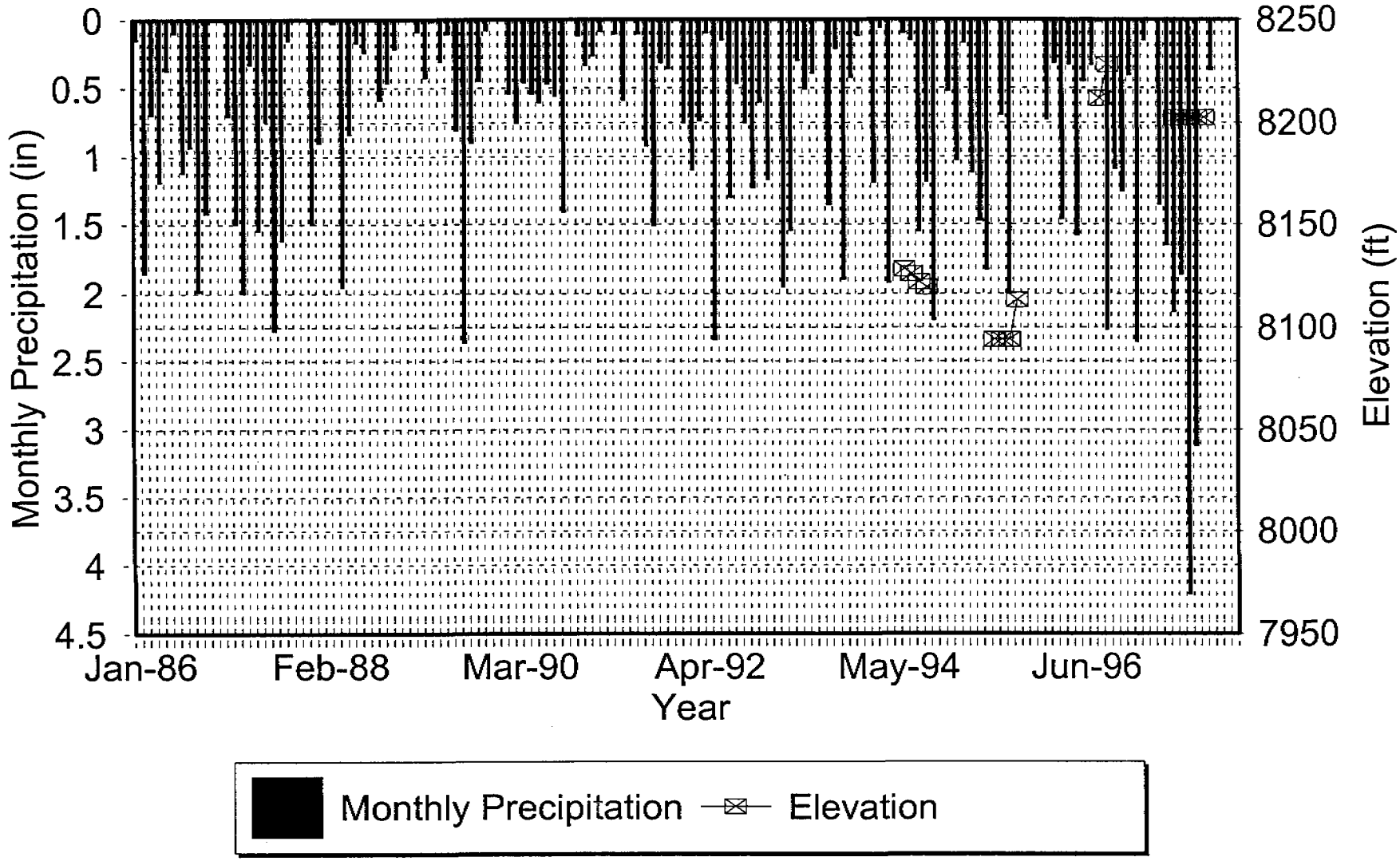
Print Date: March 25, 1998

Station: 863523 | Property: Star Point | Location: 1500' N 100' E of SW corn. Sec 35, T15S, R7E | Station Type: Spring/Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8020

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/13/88	0.18	7.2	405	10	340			335	349		5	35	83	31	2	3		< 0.02	0.06	0.01		
Jul-88	07/09/88	0.18	7.3	424	11.7	318			250	349		4	35	46	33	2	4		0.04	0.07	0.01		
Aug-88	08/20/88	0.18	7.6	425	12																		
Sep-88	09/03/88	0.3	7.5	420	12	344			354	373		4	43	84	35	3	3		0.33	0.98	0.03		
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/07/89	0.23	7.4	610	9	332			263	285		3	39	56	30	2	3		< 0.02	0.17 <	0.01		
Jul-89	07/11/89	0.23	7.3	560	9	336			334	325		3	39	78	34	2	3		< 0.02	0.03	0.01		
Aug-89	08/23/89	0.22	7.3	600	9																		
Sep-89	09/14/89	0.22	7.2	500	7	300			328	344		2	19	77	33	2	4		< 0.02	0.02 <	0.01		
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90	06/02/90	0.21	7.4	610	9	348			316	350		5	39	77	30	1	4		< 0.02	0.23 <	0.01		
Jul-90	07/06/90	0.2	7.4	600	10	342			356	357		4	35	90	32	2	4		0.04	0.04 <	0.01		
Aug-90	08/22/90	0.2	8.5	530	8																		
Sep-90	09/24/90	0.2	7.4	520	6	356			338	357		4	23	86	30	2	3		< 0.02	0.31 <	0.01		
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/12/91	0.2	7.5	620	9	362			286	320	10	5	25	70	27	2	3		< 0.02	0.58 <	0.01		
Jul-91	07/16/91	0.19	7.1	570	9	338			323	344	0	5	33	80	30	2	4		< 0.02 <	0.02 <	0.01		
Aug-91																							
Sep-91	09/17/91	0.19	8	450	9	326			302	276	0	3	76	75	28	2	3		0.02	0.05	0.01		
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/20/92	0.1849	7.4	591	9.4	324			322	346	0	2	37	78	31	2	3		< 0.02 <	0.02 <	0.01		
Jun-92	06/15/92	0.19																					
Jul-92	07/24/92	0.19	7.2	580	9.1	400			351	364	0	3	60	106	21	1	2		< 0.02 <	0.02 <	0.01		
Aug-92	08/21/92	0.163	7.2	584	9.2	298			317	360	0	3	35	76	31	2	3		< 0.02 <	0.02	0.01		
Sep-92	09/03/92	0.163	6.2	589	9	316	4 <	0.2	316	285	10	3	66	77	30	2	3		< 0.02 <	0.02 <	0.01		
Oct-92	10/30/92	0.181	6.3	625	9.5	316			313	312	17	8	51	76	30	1	3		< 0.02	0.05 <	0.01		
Nov-92																							
Dec-92	12/21/92													81	31	1	3		< 0.02 <	0.02 <	0.01		
Jan-93	01/26/93	0.174	12.2	1236	15.6	584			642	310	12	2	33	79	30	2	3		< 0.02 <	0.02 <	0.01		
Feb-93	02/28/93	0.17	6.5	542	7.8	350			309	344	5	3	58	76	29	2	4		< 0.02 <	0.02 <	0.01		
Mar-93	03/30/93	0.16	13	1124	14.6	620			682	346	0	3	39	84	32	2	5		< 0.02 <	0.02 <	0.01		
Apr-93	04/26/93	0.17	12.8	1090	17.4	604			672	337	0	3	39	82	32	2	4		< 0.02 <	0.02 <	0.01		
May-93	05/20/93	0.149	12.7	1028	19.6	676			596	356	0	3	31	75	27	1	3		< 0.02 <	0.02 <	0.01		
Jun-93	06/22/93	0.138	6	579	9.1	304			311	359	0	3	23	77	29	2	3		< 0.02 <	0.02 <	0.01		
Jul-93	07/27/93	0.144	6.2	575	9.3	318			332	354	12	3	33	82	31	2	3		< 0.02 <	0.02 <	0.01		
Aug-93	08/18/93		6.3	564	9.7	308			330	325	14	3	41	81	31	2	3		< 0.02	0.02 <	0.01		
Sep-93	09/13/93	0.143	6.4	562	9.7	316			283	361	0	3	32	69	27	1	3		< 0.02 <	0.02 <	0.01		
Oct-93	10/19/93	0.123	6.2	700	8.6	302			316	366	0	3	39	77	30	2	3		< 0	0	0		
Nov-93																							
Dec-93	12/20/93	0.23				304			304	292	0	4	25	74	29	2	3						

Station 86266

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 86266 | Property: Star Point | Location: 1000' N 2500' W of SE corn. Sec 26, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 9727

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
END DATA																						
Count		15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8093.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8227.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8156.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		49.346	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8106.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8205.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8057.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8254.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 86266 | Property: Star Point | Location: 1000' N 2500' W of SE corn. Sec 26, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 9727

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94		8128.5																				
Jul-94		8126.2																				
Aug-94		8122.2																				
Sep-94		8119.7																				
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95		8093.8																				
Jul-95		8093.8																				
Aug-95		8093.8																				
Sep-95		8113.5																				
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96																						
Jul-96																						
Aug-96	08/19/96	8211.6																				
Sep-96	09/30/96	8227.8																				
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	8202.4																				
Jul-97	07/26/97	8202.4																				
Aug-97	08/13/97	8202.4																				
Sep-97	09/16/97	8202.4																				
Oct-97		8202.4																				
Nov-97																						
Dec-97																						

Cyprus Plateau Mining Company - Water Quality Data

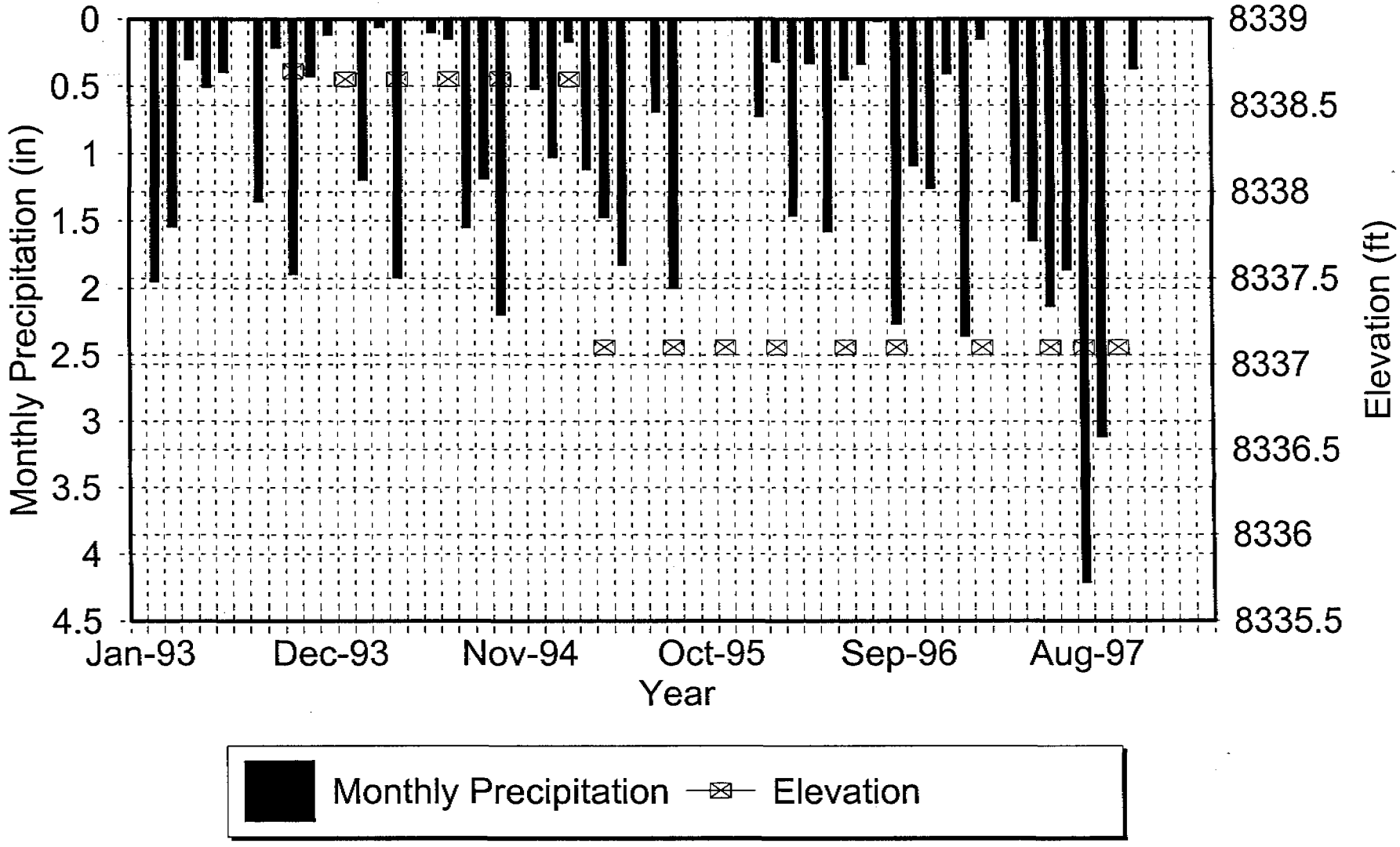
Print Date: February 27, 1998

Station: 86266 | Property: Star Point | Location: 1000' N 2500' W of SE corn. Sec 26, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 9727

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86																						
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87																						
Jun-87																						
Jul-87																						
Aug-87																						
Sep-87																						
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88																						
Jul-88																						
Aug-88																						
Sep-88																						
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89																						
Jul-89																						
Aug-89																						
Sep-89																						
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90																						
Aug-90																						
Sep-90																						
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						

Station P9301WD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P9301WD | Property: Star Point | Location: 850' S 2000' W of NE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8488

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Avg. +2 Std. Dev.		8339.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR		

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

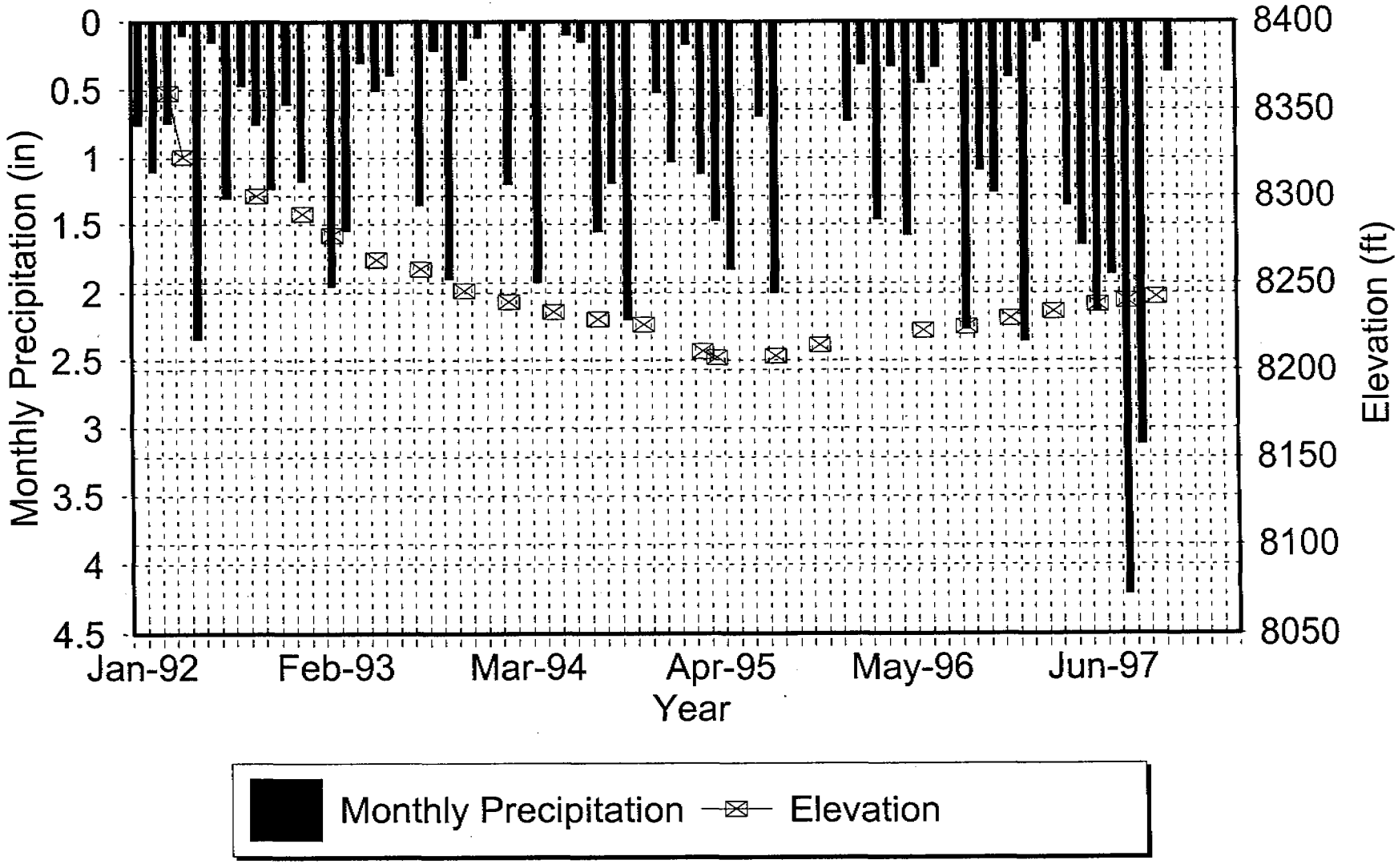
Print Date: February 27, 1998

Station: P9301WD | Property: Star Point | Location: 850' S 2000' W of NE com. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8488

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93	10/19/93	8338.7																				
Nov-93																						
Dec-93																						
Jan-94	01/26/94	8338.7																				
Feb-94																						
Mar-94																						
Apr-94	04/25/94	8338.7																				
May-94																						
Jun-94																						
Jul-94	07/20/94	8338.7																				
Aug-94																						
Sep-94																						
Oct-94	10/27/94	8338.7																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	8338.7																				
Mar-95																						
Apr-95	04/26/95	8337.1																				DRY
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95	8337.1																				
Sep-95																						
Oct-95																						
Nov-95	11/28/95	8337.1																				
Dec-95																						
Jan-96																						
Feb-96	02/21/96	8337.1																				well damaged by mine eq
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/26/96	8337.1																				Dry
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8337.1																				Dry
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97	03/13/97	8337.1																				
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	8337.1																				
Jul-97																						
Aug-97	08/21/97	8337.1																				Dry
Sep-97																						
Oct-97	10/02/97	8337.1																				Dry
Nov-97																						
Dec-97																						
END DATA																						
Count		16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8337.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8338.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8337.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		0.7545	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8336.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8338.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8336.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

Station P9204WD

Monthly Precipitation vs. Elevation



APPENDIX C
SURFACE WATER

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P9204WD | Property: Star Point | Location: 2375' N 2000' E of SW corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8366

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
END DATA																						
Count		23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8207	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8359.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8248.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		37.603	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8210.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8286	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8173.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8323.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

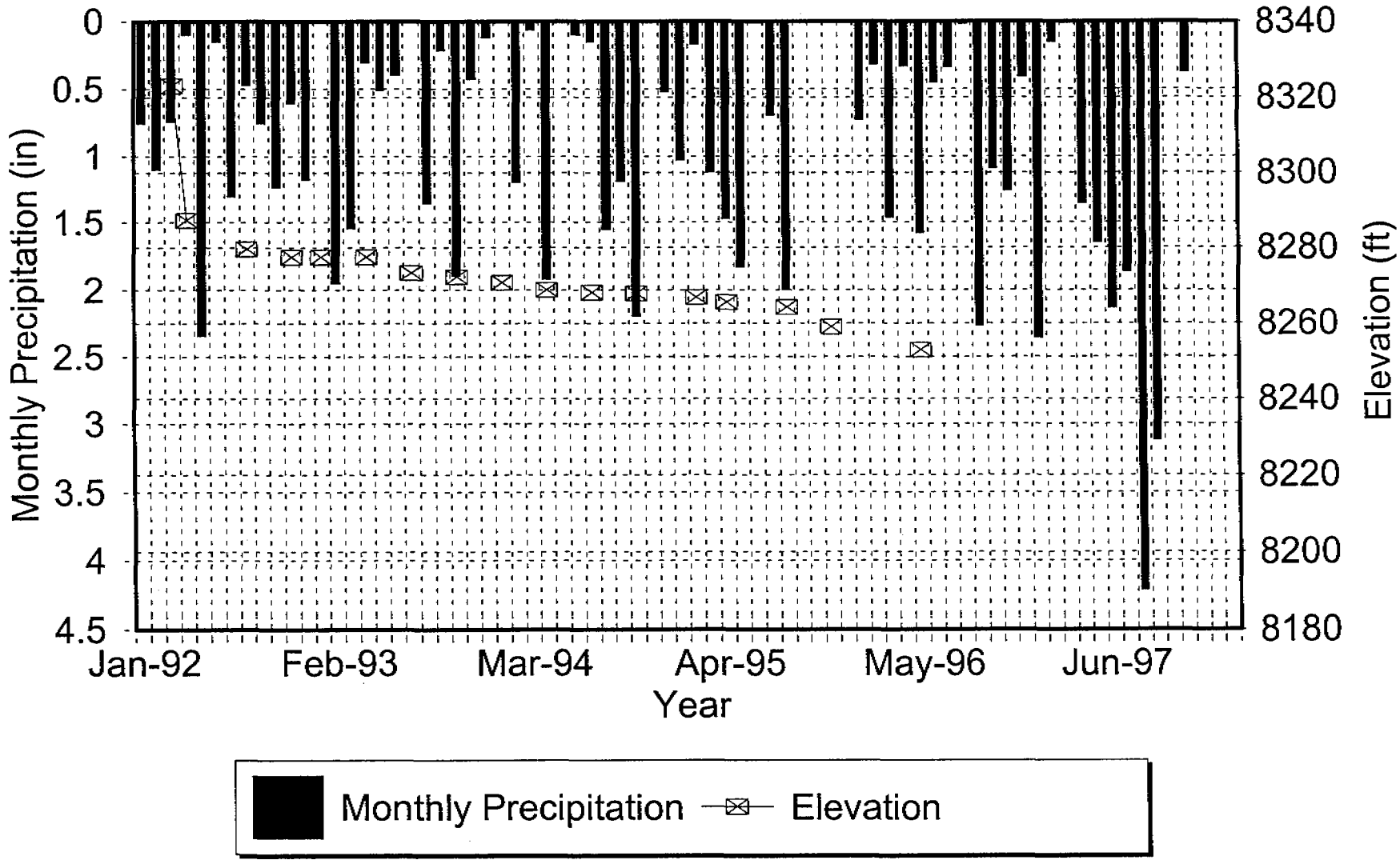
Print Date: February 27, 1998

Station: P9204WD | Property: Star Point | Location: 2375' N 2000' E of SW corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8366

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-92																						
Feb-92																						
Mar-92		8359.4																				
Apr-92		8322.8																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92		8300.1																				
Oct-92																						
Nov-92																						
Dec-92		8289.4																				
Jan-93																						
Feb-93		8277																				
Mar-93																						
Apr-93																						
May-93		8263.2																				
Jun-93																						
Jul-93																						
Aug-93		8257.9																				
Sep-93																						
Oct-93																						
Nov-93		8245.5																				
Dec-93																						
Jan-94																						
Feb-94		8239.1																				
Mar-94																						
Apr-94																						
May-94		8233.2																				
Jun-94																						
Jul-94																						
Aug-94		8229.1																				
Sep-94																						
Oct-94																						
Nov-94		8226.1																				
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95		8210.5																				
Apr-95		8207																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8207.7																				
Sep-95																						
Oct-95																						
Nov-95		8214.2																				
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/23/96	8222.7																				
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8224.7																				
Oct-96																						
Nov-96																						
Dec-96	12/17/96	8229.8																				
Jan-97																						
Feb-97																						
Mar-97	03/13/97	8233.7																				
Apr-97																						
May-97																						
Jun-97	06/17/97	8237.6																				
Jul-97																						
Aug-97	08/21/97	8239.8																				
Sep-97																						
Oct-97	10/02/97	8241.7																				
Nov-97																						
Dec-97																						

Station P9203WD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P9203WD | Property: Star Point | Location: 125' S 1500' W of NE com. Sec 23, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8275

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
Count		17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8252.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8323.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8273.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		14.567	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8259	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8288.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8244.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8303	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

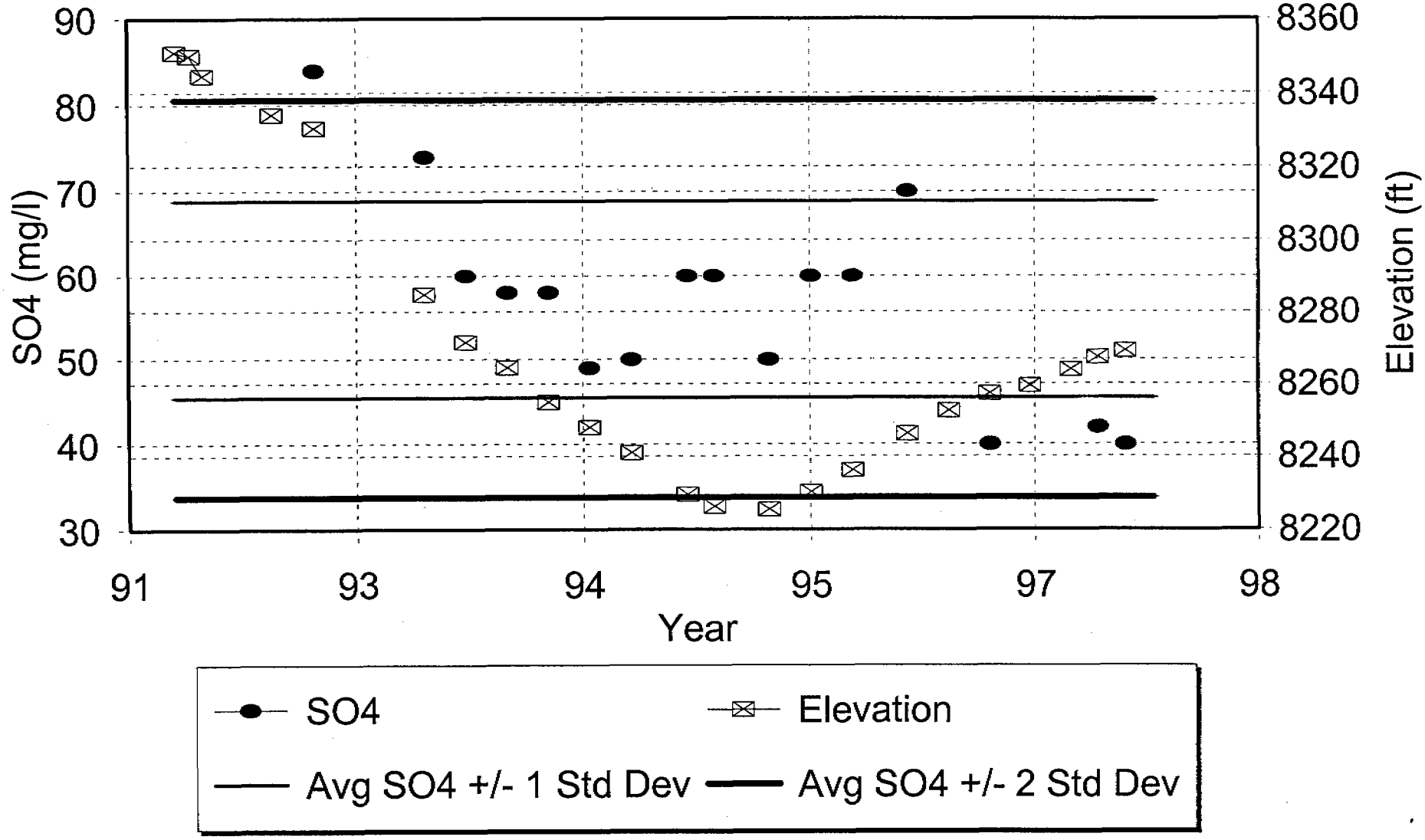
Print Date: February 27, 1998

Station: P9203WD | Property: Star Point | Location: 125' S 1500' W of NE corn. Sec 23, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8275

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																							
Feb-92																							
Mar-92		8323.1																					
Apr-92		8287.3																					
May-92																							
Jun-92																							
Jul-92																							
Aug-92		8279.6																					
Sep-92																							
Oct-92																							
Nov-92		8277.6																					
Dec-92																							
Jan-93		8277.6																					
Feb-93																							
Mar-93																							
Apr-93		8277.5																					
May-93																							
Jun-93																							
Jul-93		8273.4																					
Aug-93																							
Sep-93																							
Oct-93		8272.3																					
Nov-93																							
Dec-93																							
Jan-94		8270.7																					
Feb-94																							
Mar-94																							
Apr-94		8268.8																					
May-94																							
Jun-94																							
Jul-94		8268.2																					
Aug-94																							
Sep-94																							
Oct-94		8267.8																					
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95		8266.9																					
Mar-95																							
Apr-95		8265.5																					
May-95																							
Jun-95																							
Jul-95																							
Aug-95		8264.2																					
Sep-95																							
Oct-95																							
Nov-95		8258.9																					
Dec-95																							
Jan-96																							
Feb-96																							
Mar-96																							
Apr-96																							
May-96	05/22/96	8252.9																					well abandoned
Jun-96																							
Jul-96																							
Aug-96																							
Sep-96																							
Oct-96																							
Nov-96																							
Dec-96																							
Jan-97																							
Feb-97																							
Mar-97																							
Apr-97																							
May-97																							
Jun-97																							
Jul-97																							
Aug-97																							
Sep-97																							
Oct-97																							
Nov-97																							
Dec-97																							

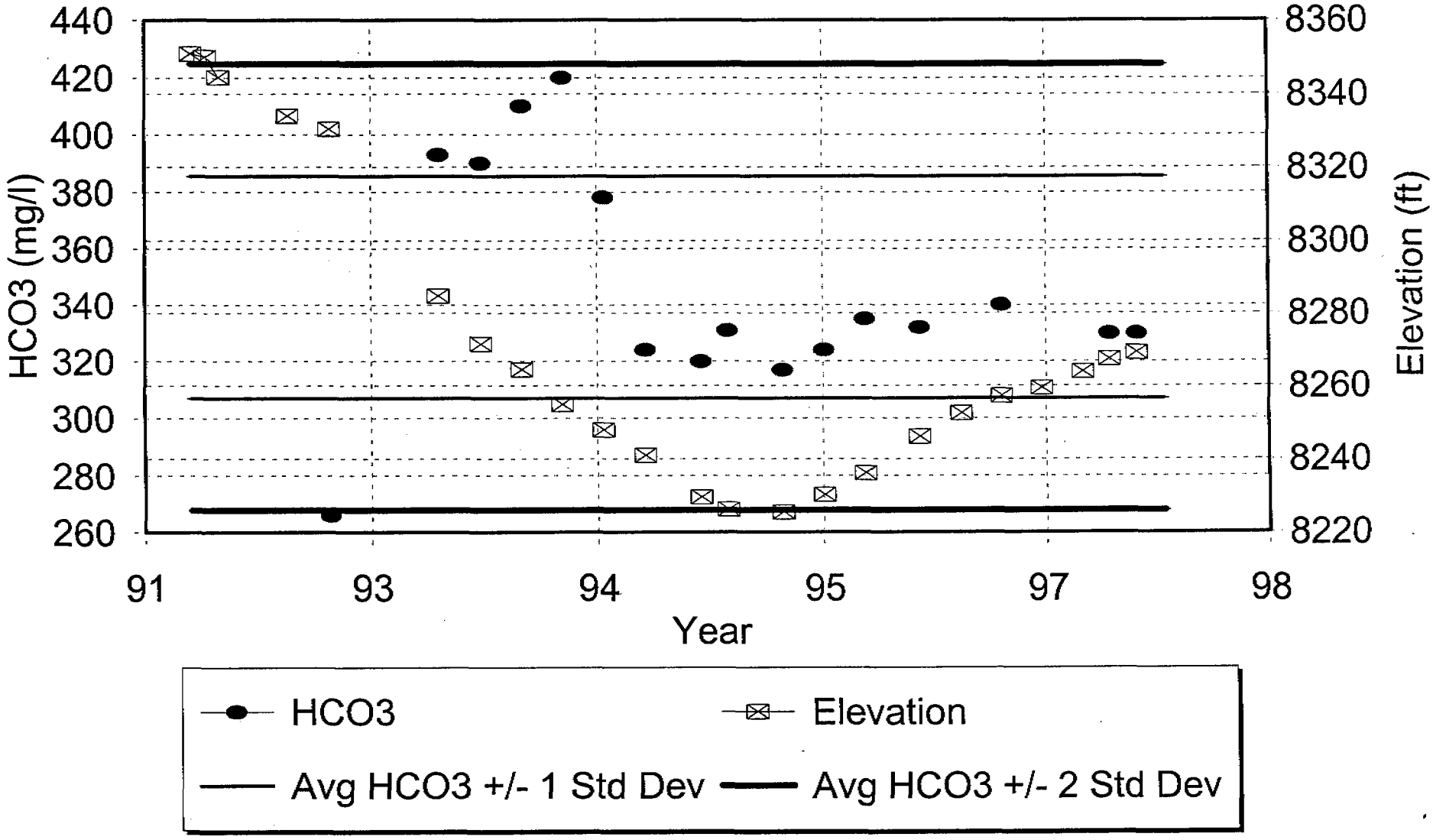
Station P9202WD

SO4 vs. Elevation



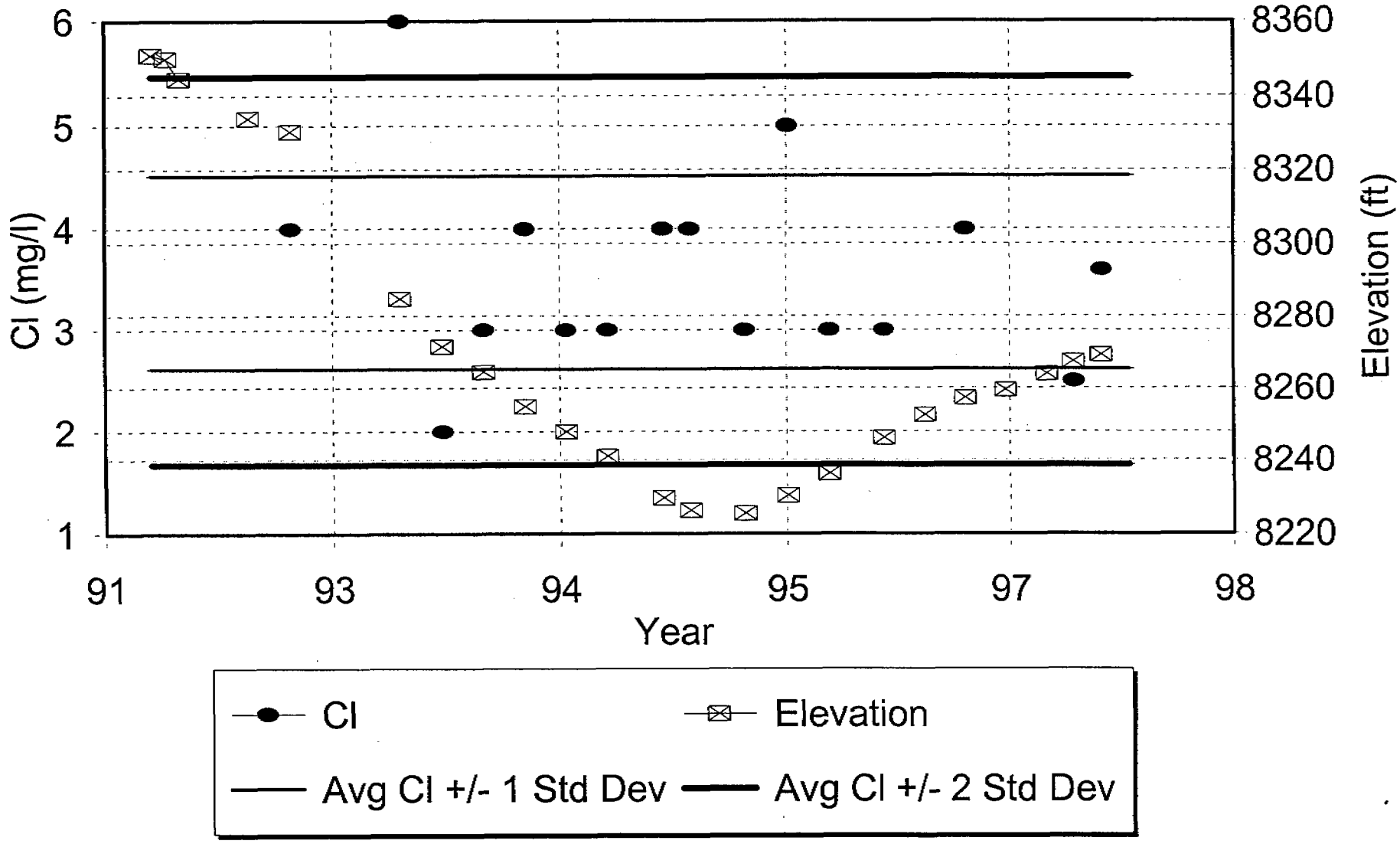
Station P9202WD

HCO3 vs. Elevation



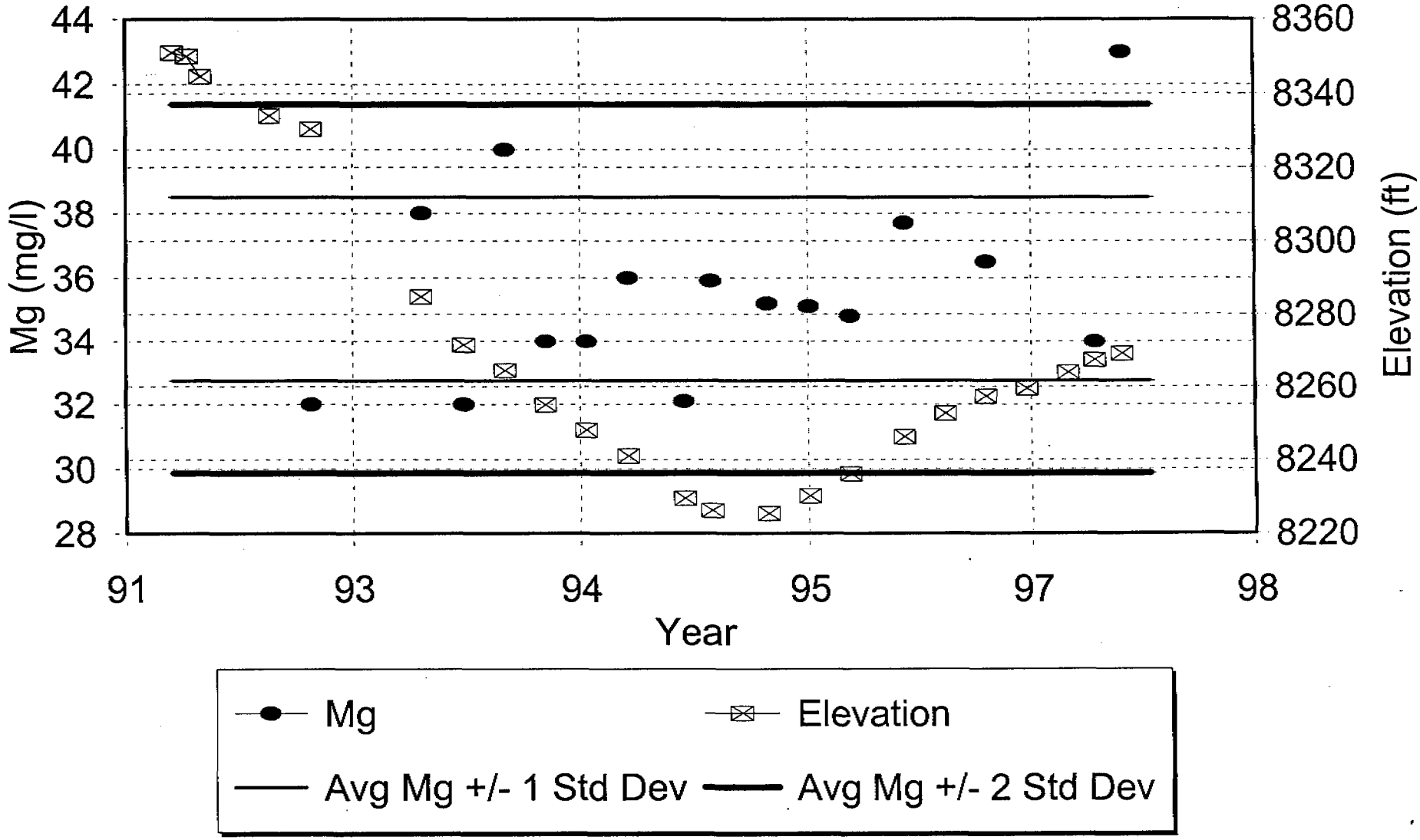
Station P9202WD

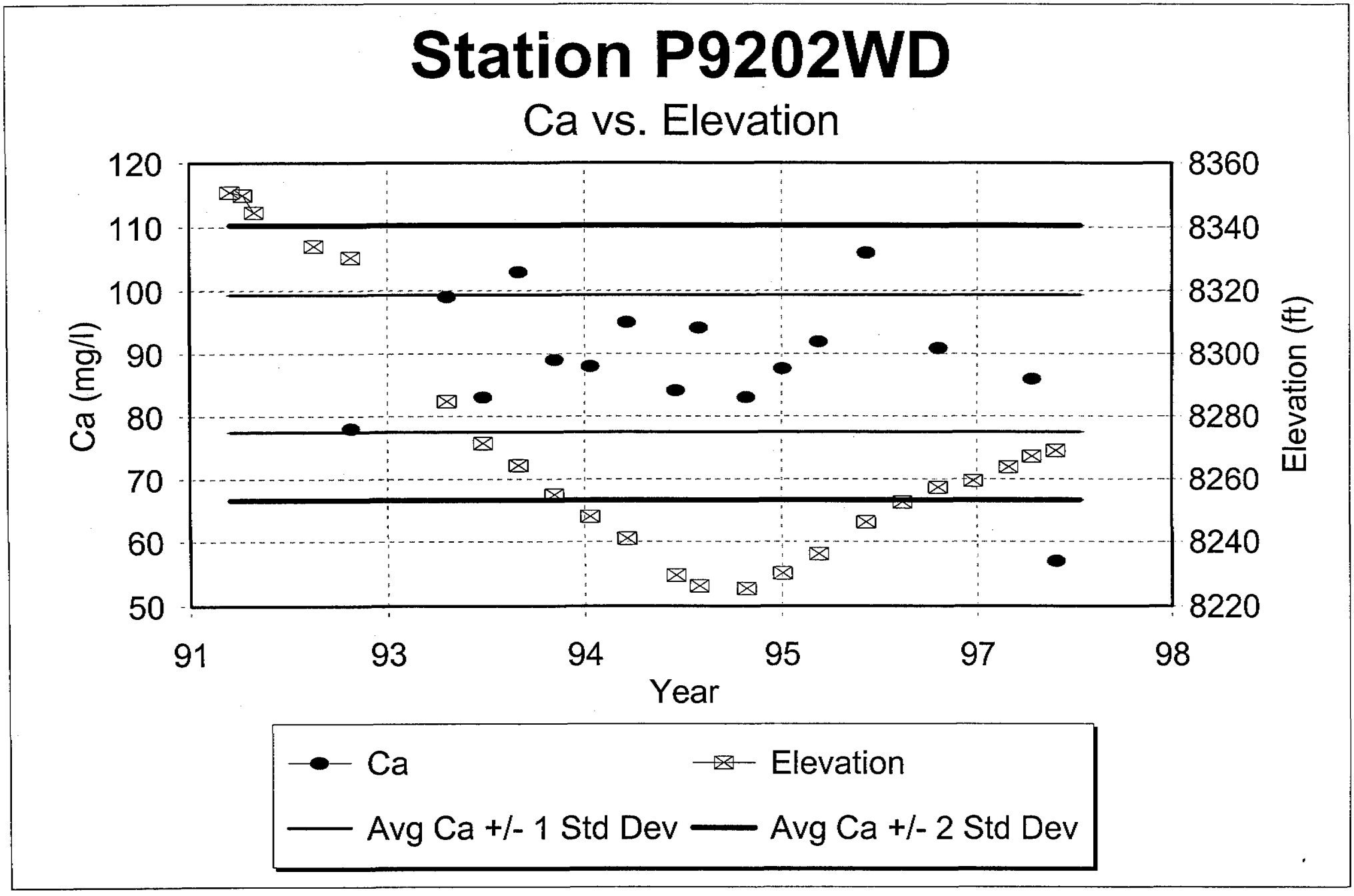
Cl vs. Elevation



Station P9202WD

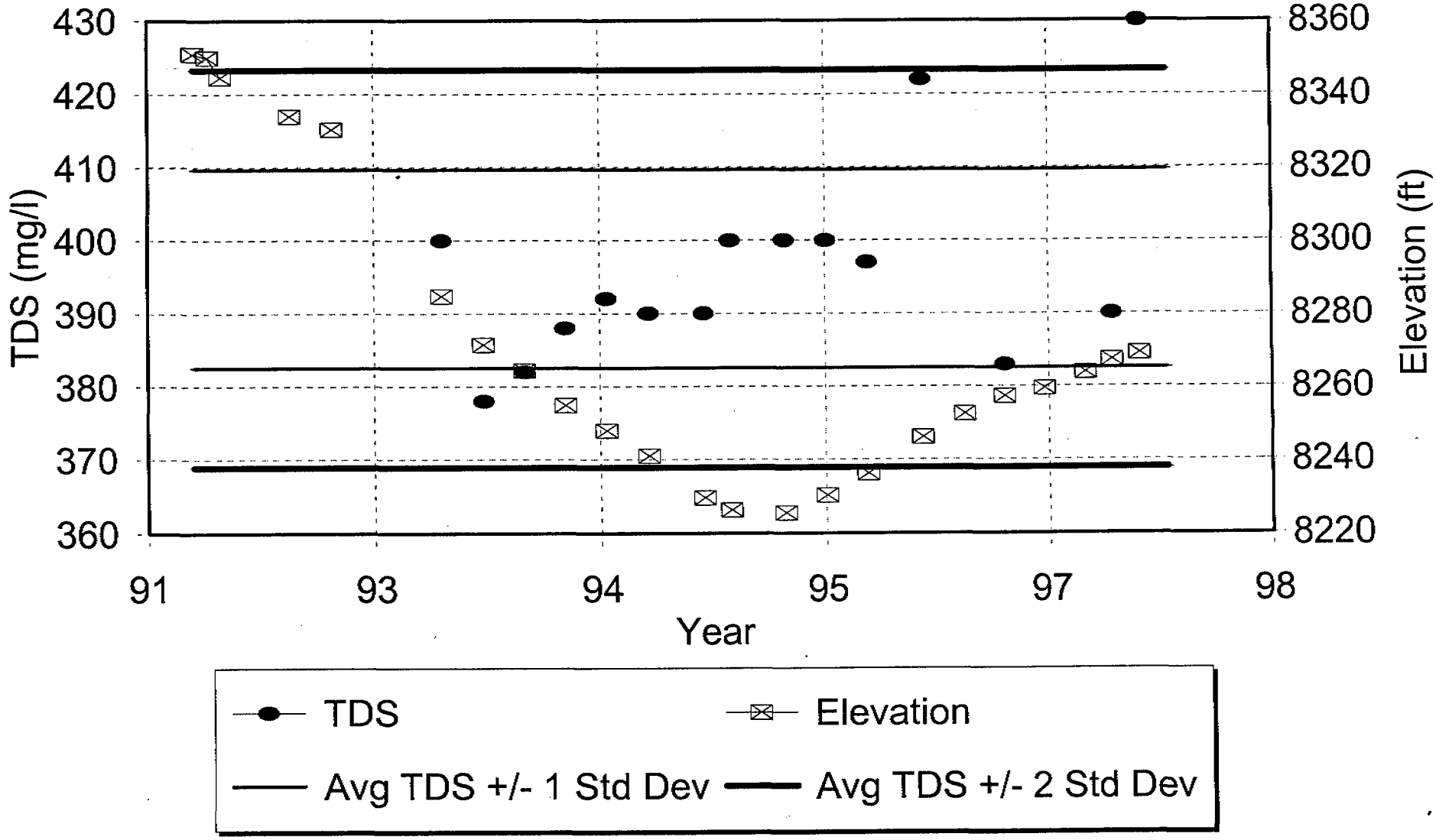
Mg vs. Elevation




Station P9202WD
Ca vs. Elevation
Ca (mg/l)
120
110
100
90
80
70
60
50
Elevation (ft)
8360
8340
8320
8300
8280
8260
8240
8220
91
93
94
95
97
98
Year
Ca
Elevation
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

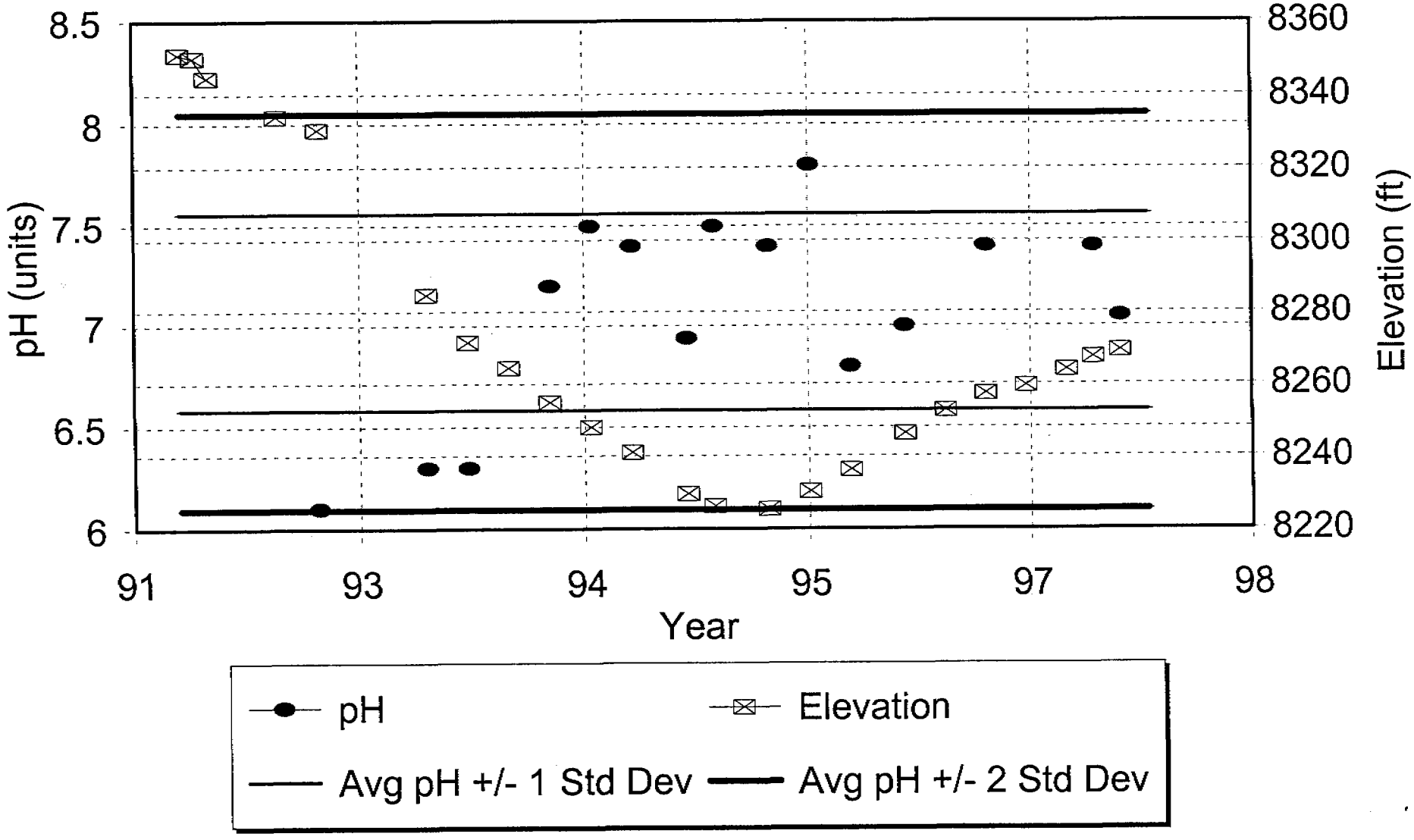
Station P9202WD

TDS vs. Elevation



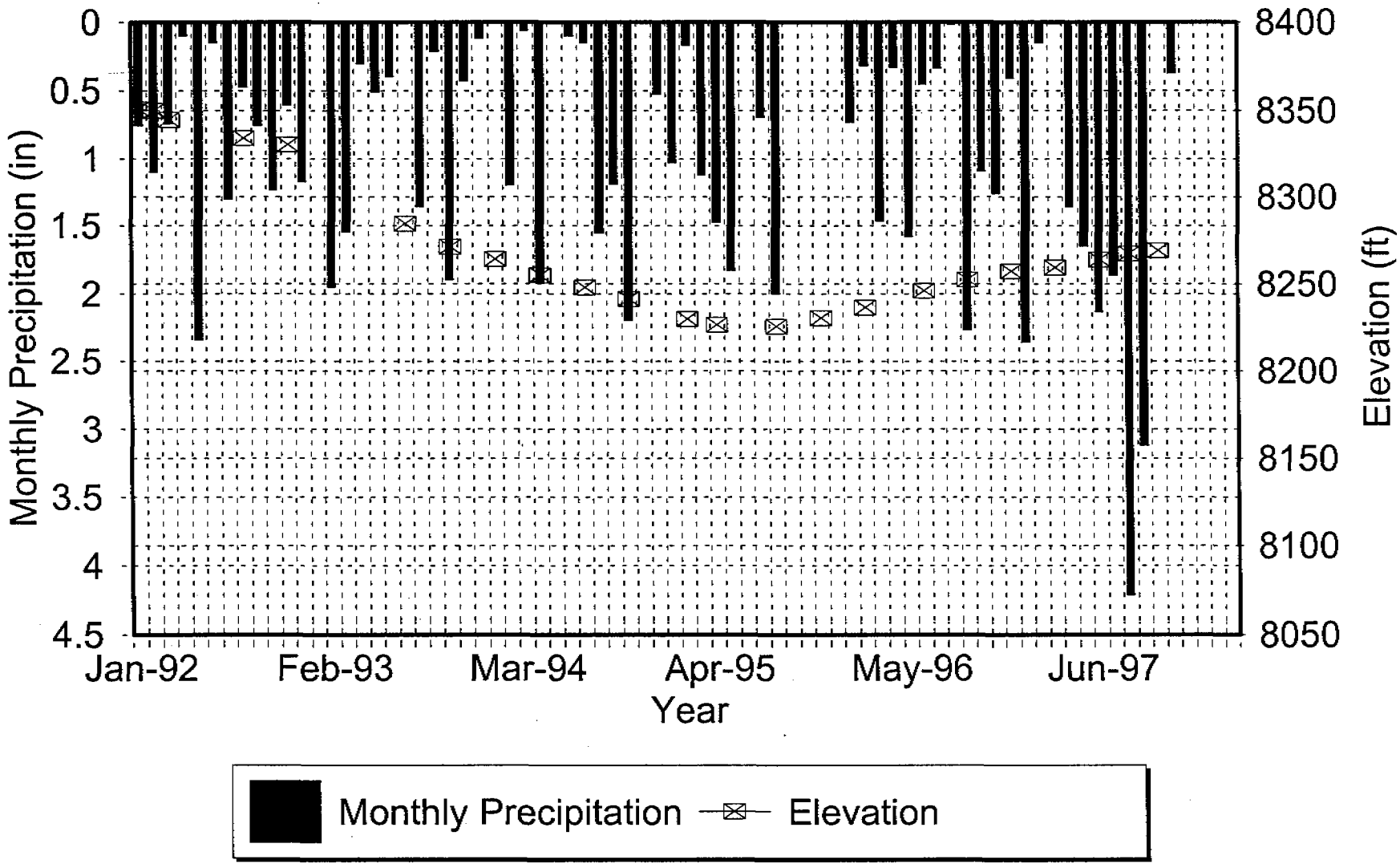
Station P9202WD

pH vs. Elevation



Station P9202WD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P9202WD | Property: Star Point | Location: 2250' N 500' E of SW corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8362

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
	Count	23	15	15	14	15	0	0	16	16	16	16	16	16	16	16	16	9	16	16	16	
	Minimum	8225.4	6.1	566	9	378	ERR	ERR	320	266 <	0 <	2	40	57	32	2.4	2	-5.3 <	0 <	0	0.0001	
	Maximum	8350.9	7.8	749	15	430	ERR	ERR	422	420 <	10 <	6	84	106	43	8.1	14	2.4 <	0.41 <	5.76	0.36	
	Average	8271.2	7.0727	667.27	12.193	396.13	ERR	ERR	367.31	346.25 <	3.0625 <	3.5688	57.188	88.475	35.644	3.9438	3.675	-1.778 <	0.0756 <	1.2931	0.1074	
	Standard Deviation	40.373	0.4883	47.572	1.701	13.598	ERR	ERR	29.368	39.303 <	3.4545 <	0.9496	11.722	10.919	2.6747	1.495	2.698	2.2841 <	0.1055 <	1.4569	0.1097	
	Avg. -1 Std. Dev.	8230.9	6.5843	619.69	10.492	382.53	ERR	ERR	337.94	306.95 <	-0.392 <	2.6189	45.466	77.556	32.769	2.4488	0.977	-4.062 <	-0.03 <	-0.164	-0.002	
	Avg. +1 Std. Dev.	8311.6	7.561	714.84	13.894	409.73	ERR	ERR	396.68	385.55 <	6.517 <	4.5186	68.909	99.394	38.518	5.4387	6.373	0.5064 <	0.1811 <	2.7501	0.2171	
	Avg. -2 Std. Dev.	8190.5	6.096	572.12	8.7908	368.94	ERR	ERR	308.58	267.64 <	-3.847 <	1.6691	33.744	66.637	29.694	0.9538	-1.721	-6.346 <	-0.135 <	-1.621	-0.112	
	Avg. +2 Std. Dev.	8352	8.0493	762.41	15.595	423.33	ERR	ERR	426.05	424.86 <	9.9715 <	5.4684	80.631	110.31	41.393	6.9337	9.0711	2.7905 <	0.2866 <	4.207	0.3268	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

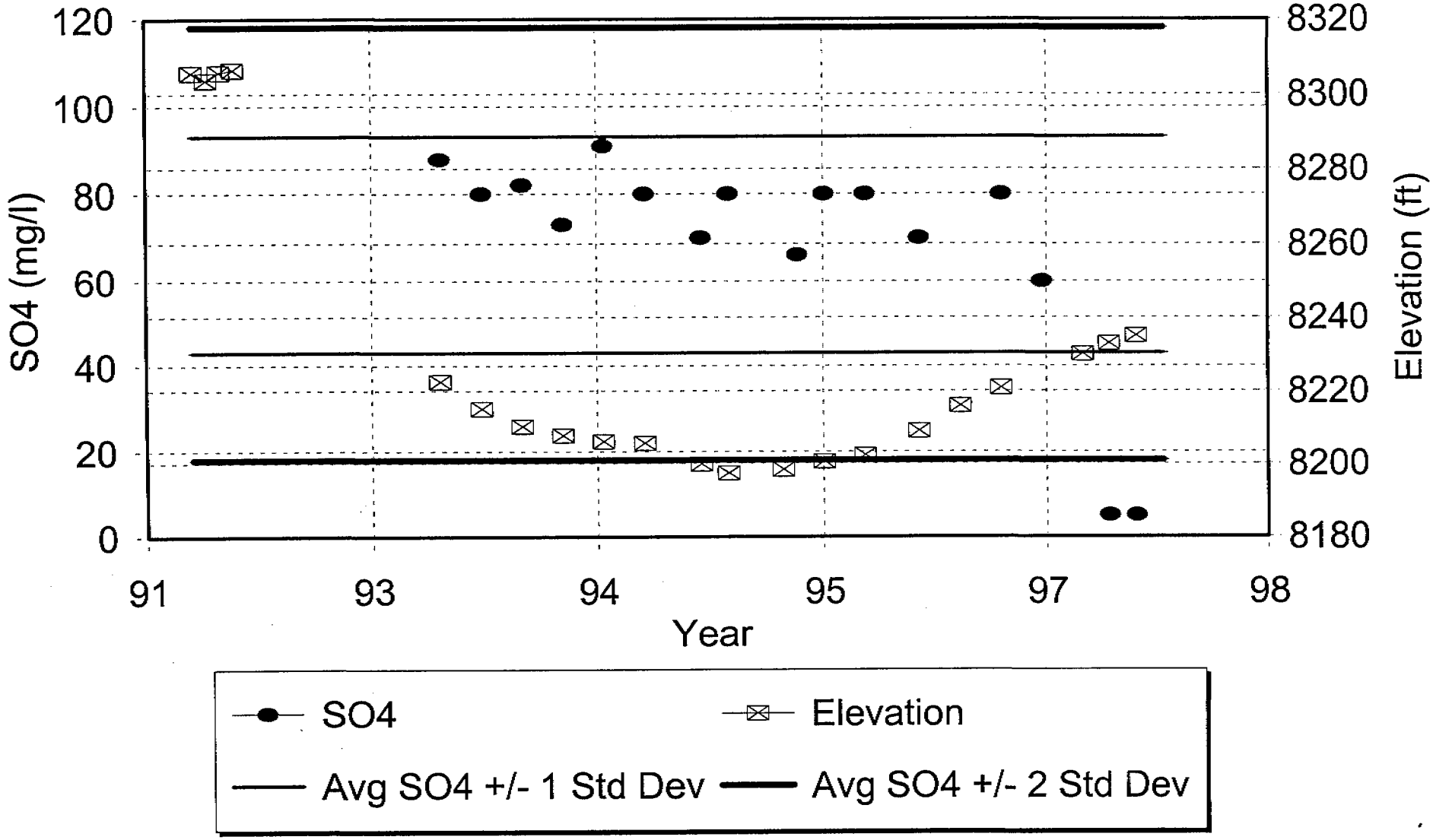
Station: P9202WD | Property: Star Point | Location: 2250' N 500' E of SW corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8362

Print Date: February 27, 1998

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8350.9																				
Feb-92		8350																				
Mar-92		8344.7																				
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8334.1																				
Sep-92																						
Oct-92																						
Nov-92	11/03/92	8330.5	6.1	719	11.9				326	266	8	4	84	78	32	4	14		0	0	0.0001	
Dec-92																						
Jan-93	*																					
Feb-93																						
Mar-93																						
Apr-93	*																					
May-93																						
Jun-93																						
Jul-93	07/21/93	8284.7	6.3	623	11.9	400			403	393	0	6	74	99	38	3	3	<	0.02	2.03	0.1	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	8271.4	6.3	656	11.9	378			339	390	0	2	60	83	32	4	3	<	0.02	0.29	0.04	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	8264.4				382			422	410	0	3	58	103	40	4	3		0.08	1.46	0.09	Meter Broken, No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	8254.9	7.2	749	10	388			362	420	0	4	58	89	34	3	3		0.06	1.07	0.03	
May-94																						
Jun-94																						
Jul-94	07/20/94	8248	7.5	647	10	392			359	378	7	3	49	88	34	3	2		0.41	5.76	0.1	Sample Turbid after 3 col
Aug-94																						
Sep-94																						
Oct-94	10/27/94	8241.1	7.4	620	9	390			386	324	0	3	50	95	36	4	3		0.12	0.53	0.02	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	8229.6	6.94	726	12	390			342	320 <	2	4	60	84.1	32.1	2.8	2.6	-5	0.05	0.54	0.082	
Mar-95																						
Apr-95	04/26/95	8226.2	7.5	637	12	400			383	331 <	2	4	60	94.1	35.9	3.2	3.1	-0.8	0.02	2.79	0.08	
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95	8225.4	7.4	675	12	400			352	317 <	2	3	50	83	35.2	3	2.9	-1.6 <	0.01	0.42	0.068	
Sep-95																						
Oct-95																						
Nov-95	11/28/95	8230.3	7.8	685		400			363	324 <	2	5	60	87.6	35.1	4	2.9	-2.5	0.03	0.48	0.019	
Dec-95																						
Jan-96																						
Feb-96	02/21/96	8236.2	6.8	726	13	397			373	335	2 <	3	60	91.9	34.8	3	2.8	-2.5	0.12	0.49	0.071	
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/26/96	8246.2	7	658	13	422			420	332	2 <	3	70	106	37.7	2.4	3	2.4	0.24	3.1	0.262	
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8252.5																				Unable to take sample du
Oct-96																						
Nov-96																						
Dec-96	12/17/96	8257.2	7.4	636	14	383			377	340	2 <	4	40	90.9	36.5	4.6	3	0.2	0.01 <	0.45	0.047	
Jan-97																						
Feb-97																						
Mar-97	03/19/97	8259.4																				unable to obtain sample d
Apr-97																						
May-97																						
Jun-97	06/12/97	8263.9																				no sample-persistant curre
Jul-97																						
Aug-97	08/21/97	8267.4	7.4	686	15	390			350	330	10 <	2.5	42	86	34	7	3.3	-0.9	0.01 <	0.18	0.36	
Sep-97																						
Oct-97	10/02/97	8269.1	7.05	566	15	430			320	330	10 <	3.6	40	57	43	8.1	4.2	-5.3	0.01 <	1.1	0.35	
Nov-97																						
Dec-97																						

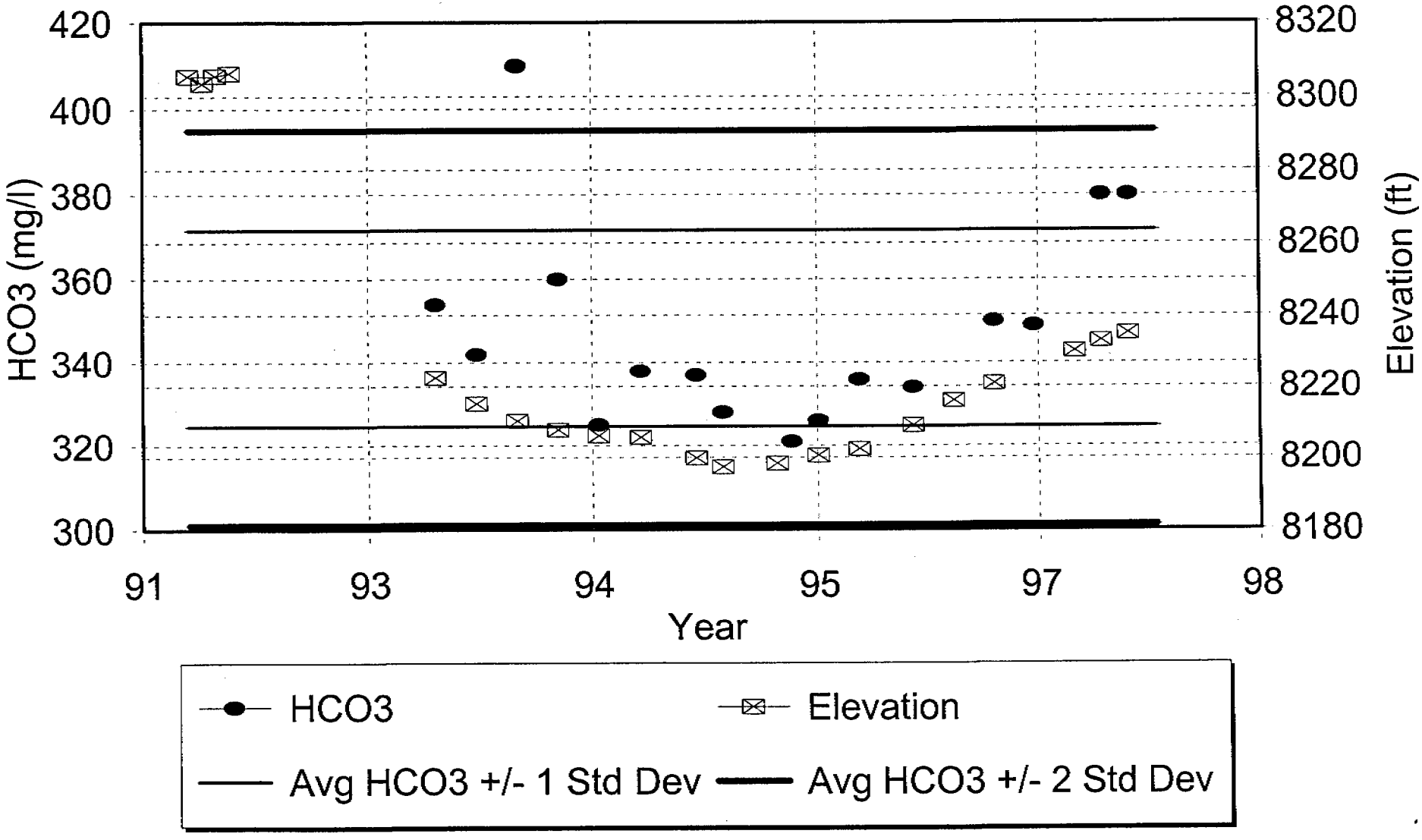
Station P9201CWD

SO4 vs. Elevation



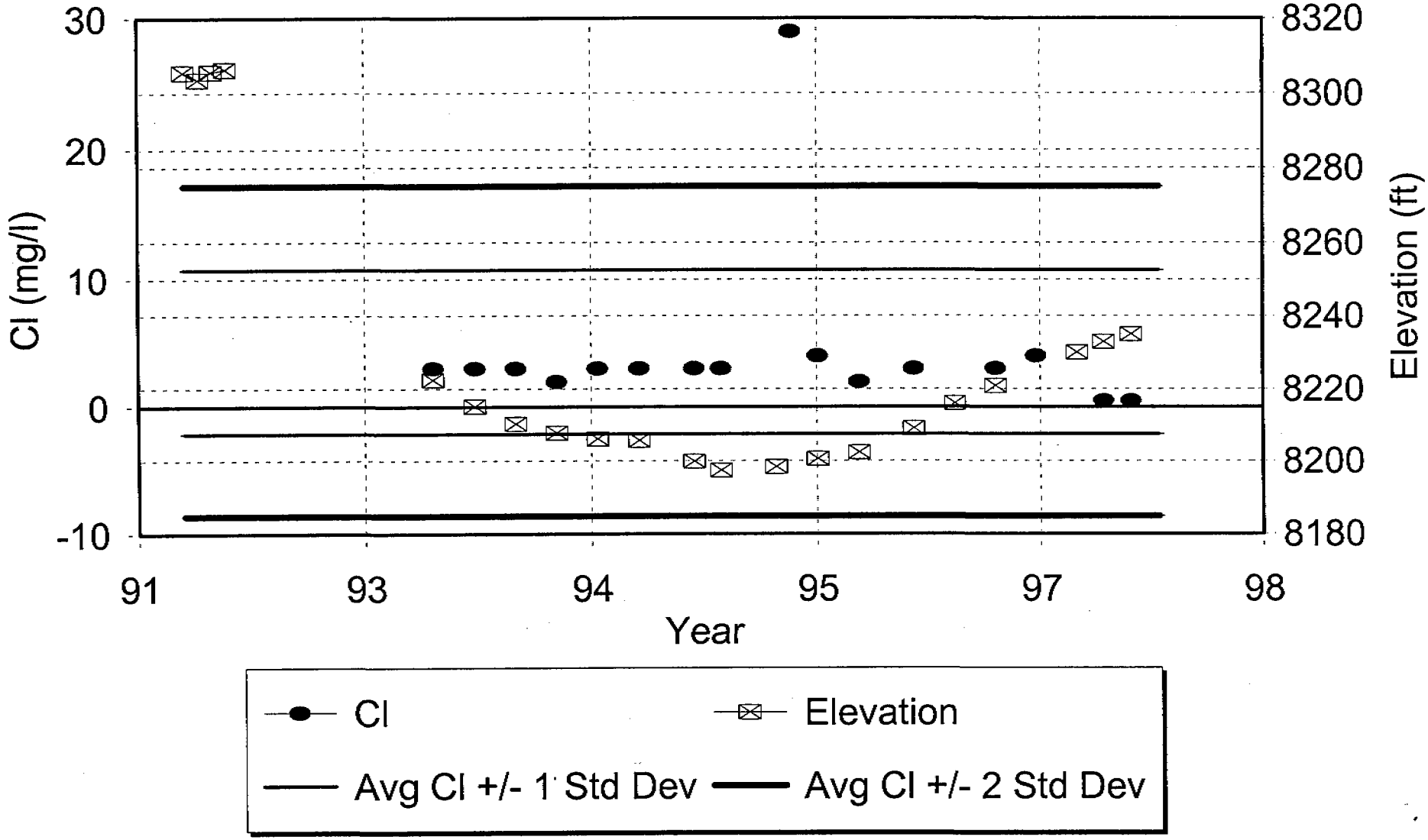
Station P9201CWD

HCO3 vs. Elevation



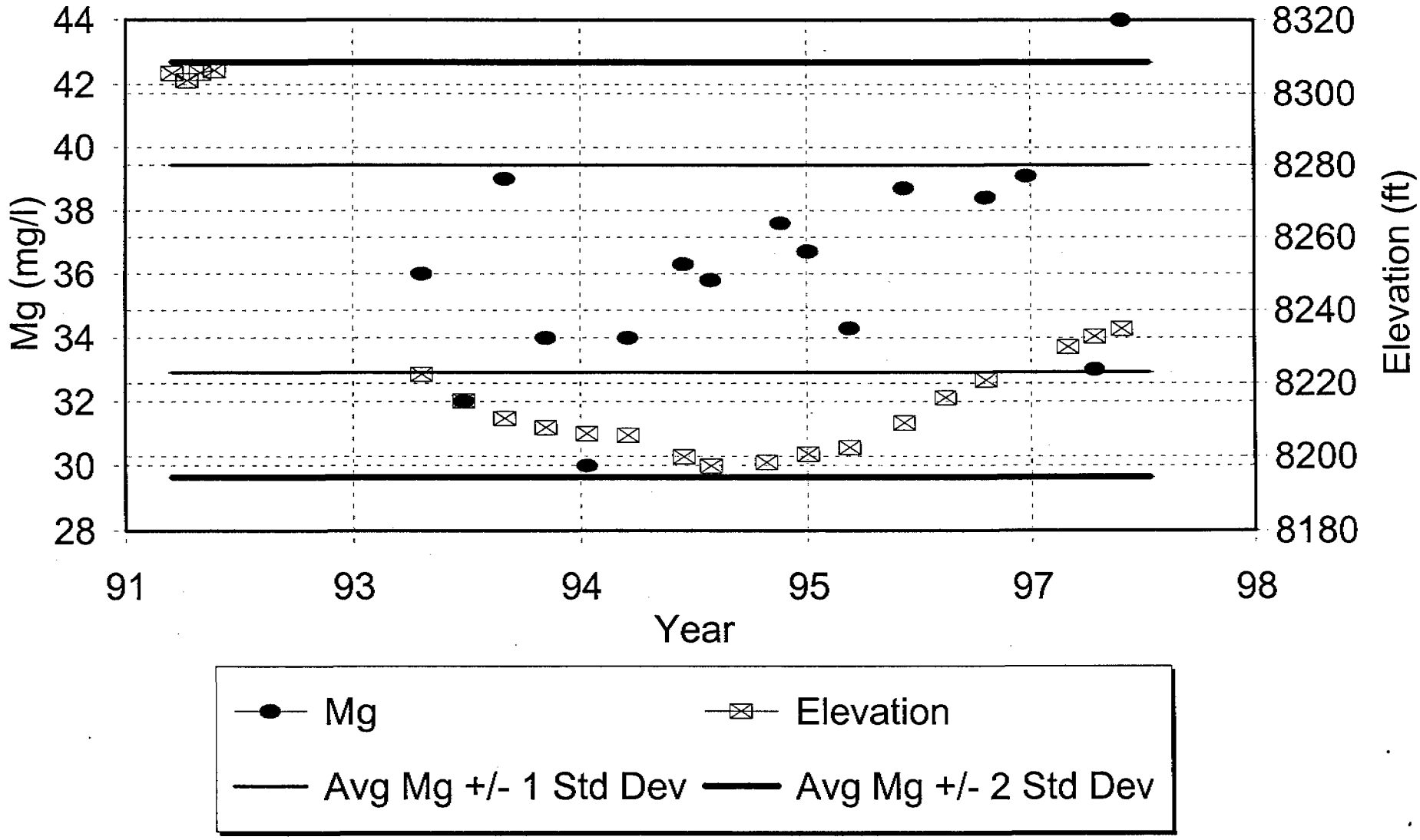
Station P9201CWD

Cl vs. Elevation



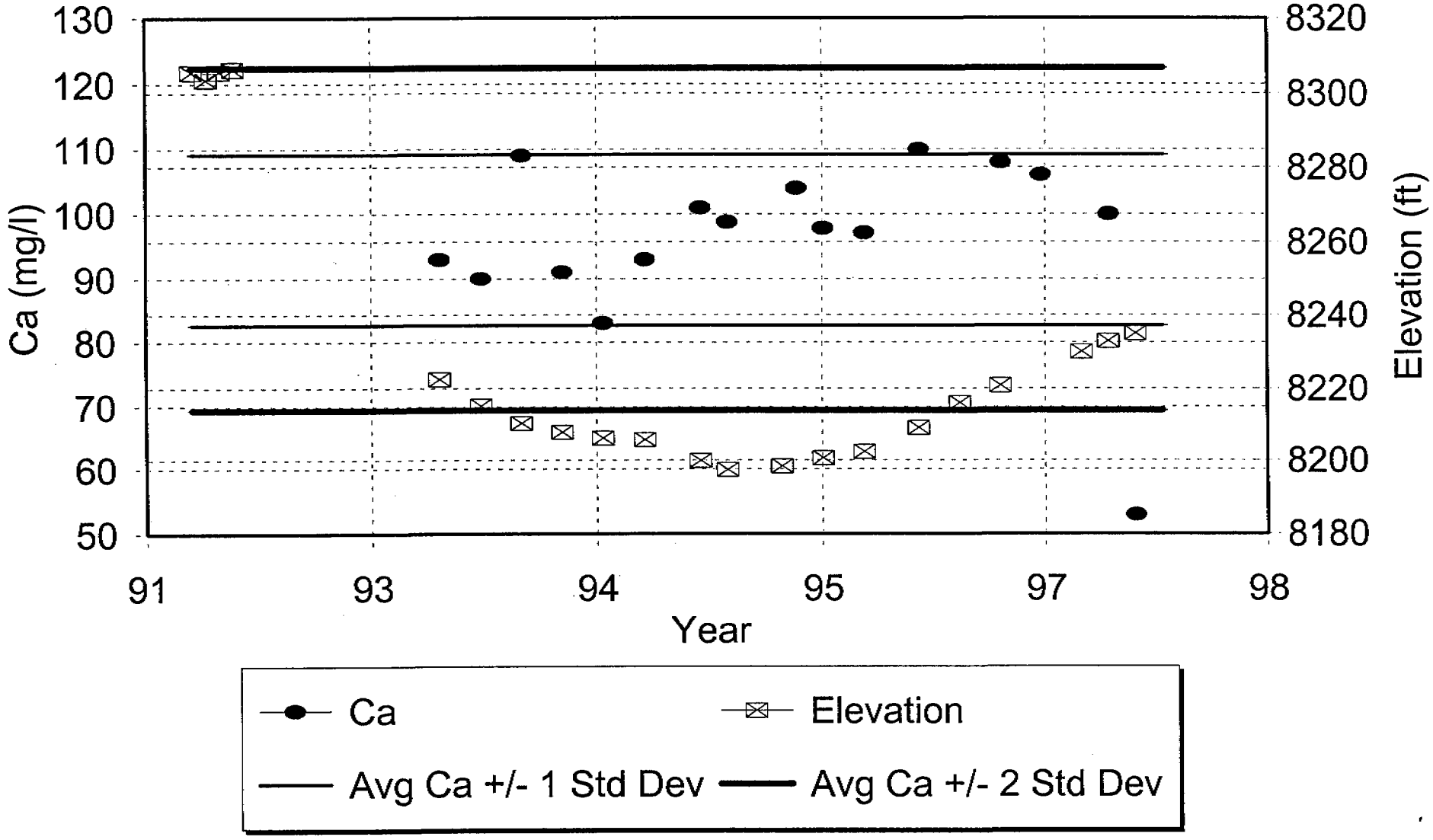
Station P9201CWD

Mg vs. Elevation



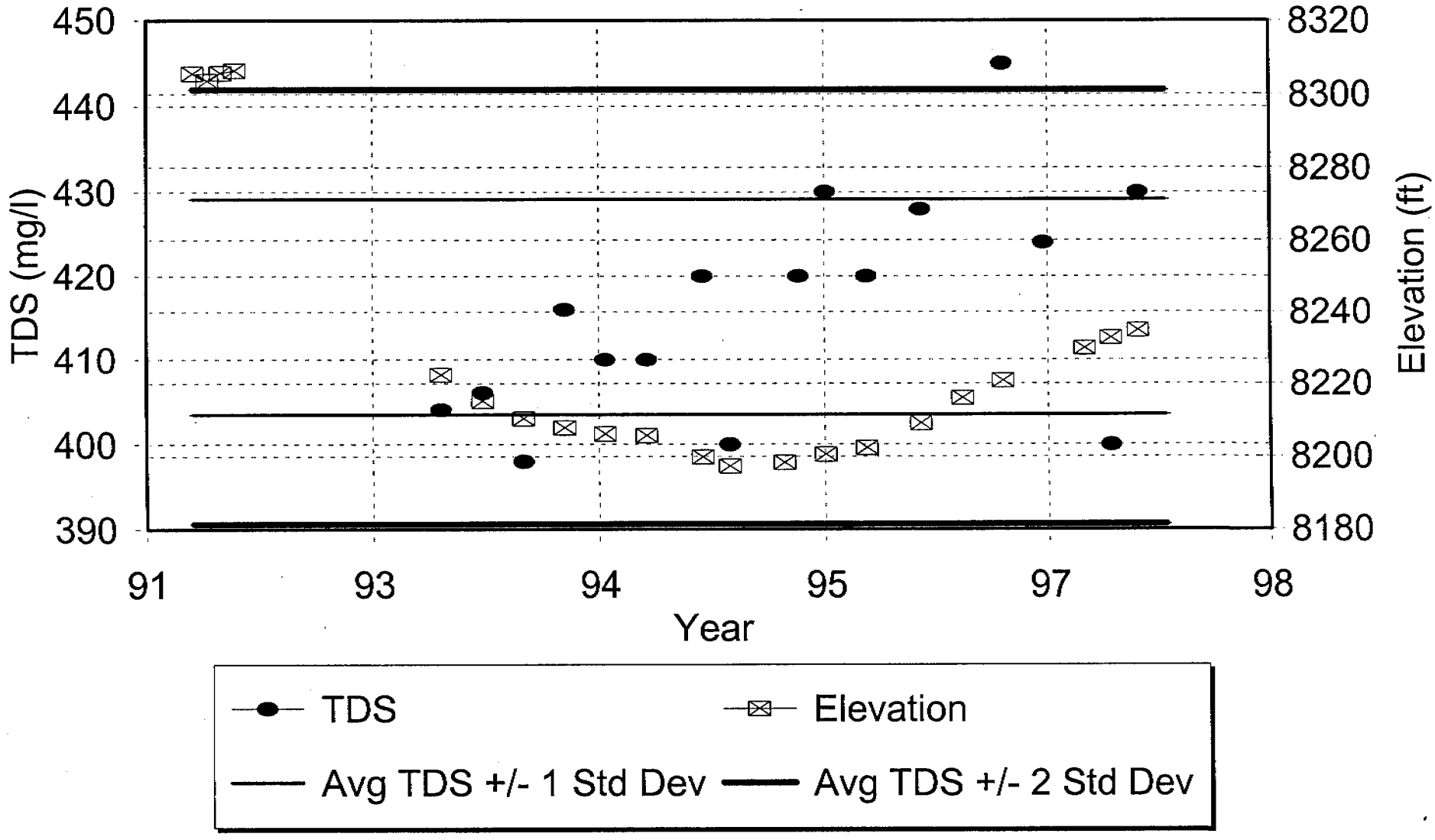
Station P9201CWD

Ca vs. Elevation



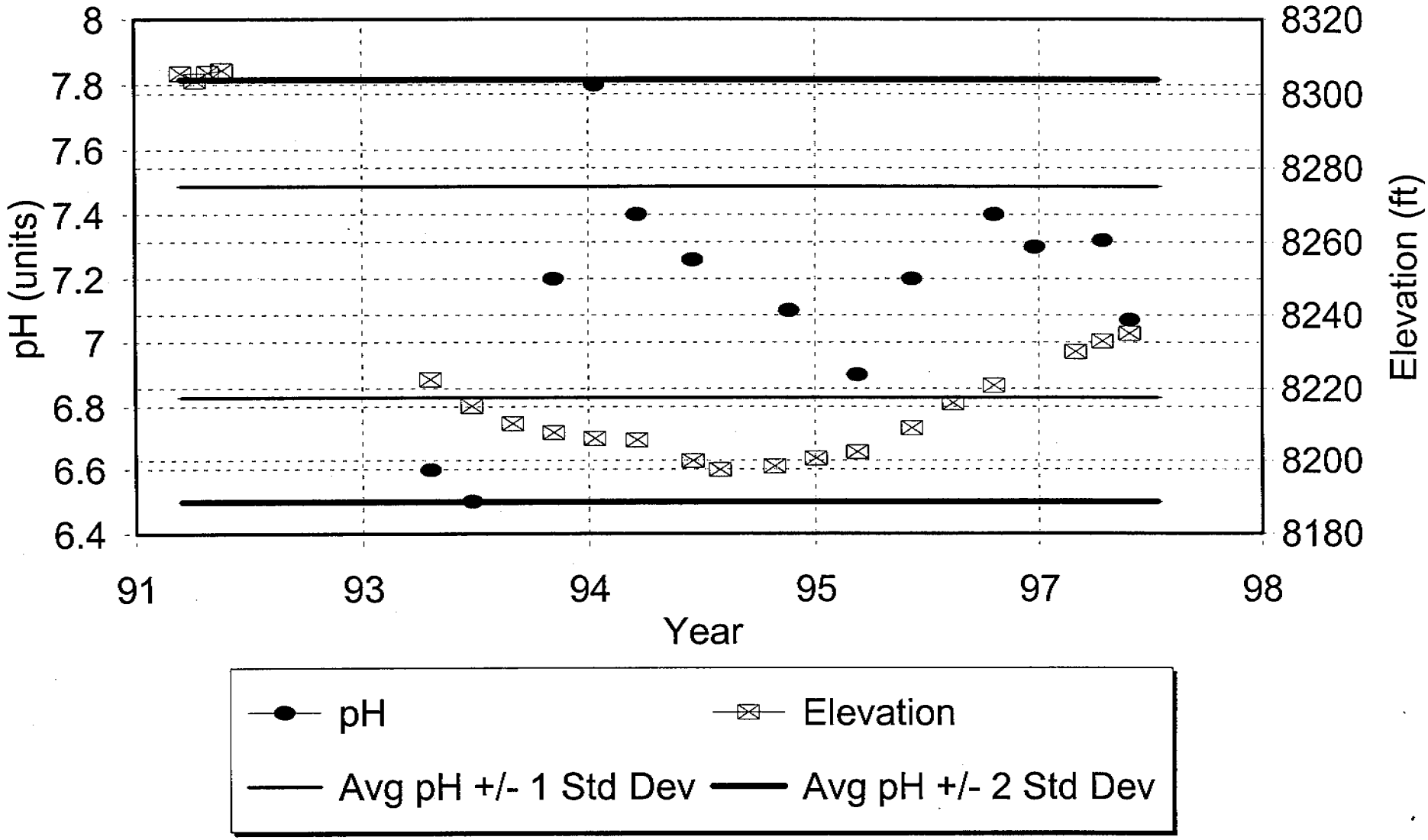
Station P9201CWD

TDS vs. Elevation



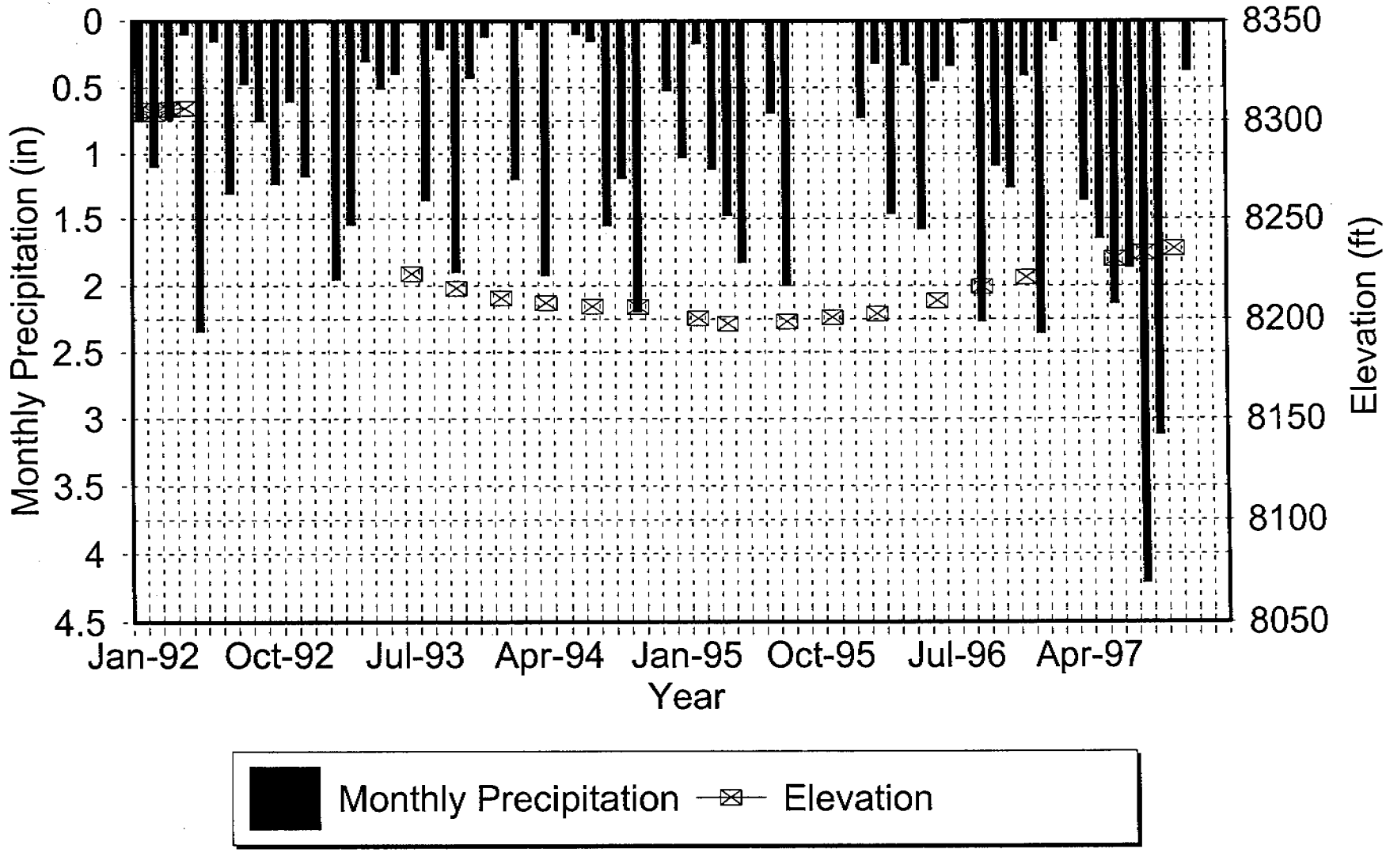
Station P9201CWD

pH vs. Elevation



Station P9201CWD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Station: P9201CWD Property: Star Point Location: 1125' N 1875' W of SE corn. Sec 14, T15S, R7E Station Type: Well Sampling Frequency: Quarterly Formation: Print Date: February 27, 1998 Elevation: 8364

Date	Field Measurements				Laboratory Measurements																
Sample Mo-Yr Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																					
Count	21	13	14	14	16	0	0	16	16	16	16	16	16	16	16	16	10	16	16	16	
Minimum	8197.5	6.5	467	10	398	ERR	ERR	310	321 <	0 <	0.5 <	5 <	53	30	2	2.8	-7.4 <	0.01 <	0.01	0.09	
Maximum	8306.3	7.8	820	55.4	445	ERR	ERR	434	410 <	10 <	29 <	91 <	110	44	4.6	4	7.9 <	0.24 <	28.7	0.504	
Average	8230.1	7.1577	686	15.586	416.31	ERR	ERR	388.06	348.13 <	2.25 <	4.3125 <	68.125 <	95.919	36.181	2.7313	3.125	-0.12 <	0.0694 <	5.1738	0.2318	
Standard Deviation	37.986	0.3295	81.682	11.171	12.844	ERR	ERR	34.825	23.473 <	3.0721 <	6.4466 <	25.035 <	13.283	3.2616	0.6997	0.3269	3.9268 <	0.0706 <	6.858	0.124	
Avg. -1 Std. Dev.	8192.1	6.8282	604.32	4.415	403.47	ERR	ERR	353.24	324.65 <	-0.822 <	-2.134 <	43.09 <	82.635	32.92	2.0315	2.7981	-4.047 <	-0.001 <	-1.684	0.1077	
Avg. +1 Std. Dev.	8268.1	7.4872	767.68	26.756	429.16	ERR	ERR	422.89	371.6 <	5.3221 <	10.759 <	93.16 <	109.2	39.443	3.431	3.4519	3.8068 <	0.14 <	12.032	0.3558	
Avg. -2 Std. Dev.	8154.1	6.4986	522.64	-6.756	390.62	ERR	ERR	318.41	301.18 <	-3.894 <	-8.581 <	18.056 <	69.352	29.658	1.3318	2.4712	-7.974 <	-0.072 <	-8.542	-0.016	
Avg. +2 Std. Dev.	8306.1	7.8167	849.36	37.927	442	ERR	ERR	457.71	395.07 <	8.3941 <	17.206 <	118.19 <	122.49	42.704	4.1307	3.7788	7.7336 <	0.2105 <	18.89	0.4798	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

* Measurements taken for this month are extremely anomalous and judged to be in error and were not included in this table. See previous reports for actual data.

Cyprus Plateau Mining Company - Water Quality Data

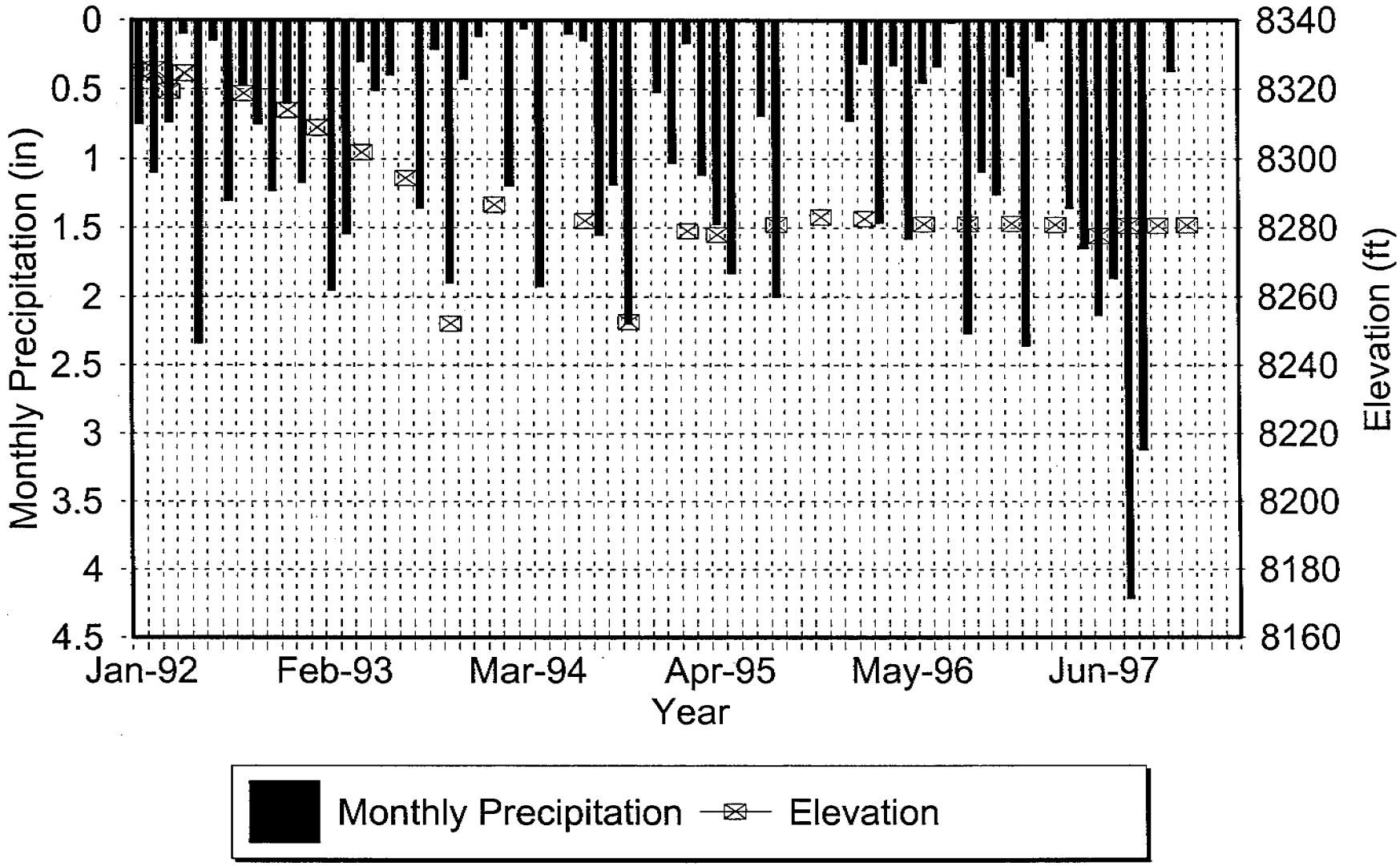
Station: P9201CWD | Property: Star Point | Location: 1125' N 1875' W of SE com. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Print Date: February 27, 1998

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8305.5																				
Feb-92		8303.6																				
Mar-92		8305.7																				
Apr-92		8306.3																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93	*																					
Feb-93																						
Mar-93																						
Apr-93	*																					
May-93																						
Jun-93																						
Jul-93	07/21/93	8222.5	6.6	664	12	404			372	354	0	3	88	93	36	4	3	<	0.02	1.31	0.1	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	8215.2	6.5	702	12	406			356	342	0	3	80	90	32	2	3	<	0.02	1.64	0.09	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	8210.3				398			432	410	0	3	82	109	39	3	4		0.04	3.86	0.15	Meter Broken, No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	8207.9	7.2	767	10	416			367	360	0	2	73	91	34	2	3		0.14	28.7	0.33	
May-94																						
Jun-94																						
Jul-94	07/20/94	8206.2	7.8	685	10	410			331	325	0	3	91	83	30	2	3		0.15	2.2	0.12	
Aug-94																						
Sep-94																						
Oct-94	10/27/94	8205.8	7.4	768	11	410			373	338	0	3	80	93	34	2.3	3		0.16	8.4	0.18	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	8200	7.26	667	10.8	420			402	337 <	2	3	70	101	36.3	2.9	3.5	-0.2 <	0.01	3.69	0.218	
Mar-95																						
Apr-95	04/26/95	8197.5		687	55.4	400			394	328 <	2	3	80	98.8	35.8	2.4	3	-1.5 <	0.01	2.12	0.106	
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8198.5																				
Sep-95	09/27/95		7.1	467	16	420			415	321 <	2	29	66	104	37.6	2.5	2.9	-0.8	0.03	10.3	0.27	
Oct-95																						
Nov-95	11/28/95	8200.6				430			395	326 <	2	4	80	97.8	36.7	2.5	2.9	-1.3	0.1	10.2	0.14	
Dec-95																						
Jan-96																						
Feb-96	02/21/96	8202.4	6.9	750	13	420			384	336	2 <	2	80	97.1	34.3	2.2	3	-3.7	0.02	2.94	0.127	
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/26/96	8209.1	7.2	657	13	428			434	334	2 <	3	70	110	38.7	2.6	3.1	3.8	0.24	4.61	0.249	
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8216																				Unable to take sample du
Oct-96																						
Nov-96																						
Dec-96	12/17/96	8220.6	7.4	663	13	445			428	350	2 <	3	80	108	38.4	2.7	3	-0.1	0.01 <	1.98	0.324	
Jan-97																						
Feb-97																						
Mar-97	03/19/97		7.3	690	13	424			426	349	2 <	4	60	106	39.1	2.7	3	2.1	0.13	0.39	0.504	
Apr-97																						
May-97																						
Jun-97	06/12/97	8229.9																				No sample-power diconne
Jul-97																						
Aug-97	08/21/97	8232.9	7.32	820	15	400			390	360	10 <	0.5 <	5 <	100	33	3.3	2.8	7.9	0.01 <	0.01	0.38	
Sep-97																						
Oct-97	10/02/97	8235	7.07	607	14	430			310	380	10 <	0.5 <	5 <	53	44	4.6	3.8	-7.4	0.02	0.43	0.42	
Nov-97																						
Dec-97																						

Station P9201BWD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P9201BWD | Property: Star Point | Location: 1125' N 1875' W of SE com. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
	Count	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Minimum	8252.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Maximum	8325.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Average	8290.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Standard Deviation	20.113	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. -1 Std. Dev.	8270.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. +1 Std. Dev.	8310.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. -2 Std. Dev.	8250.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. +2 Std. Dev.	8330.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

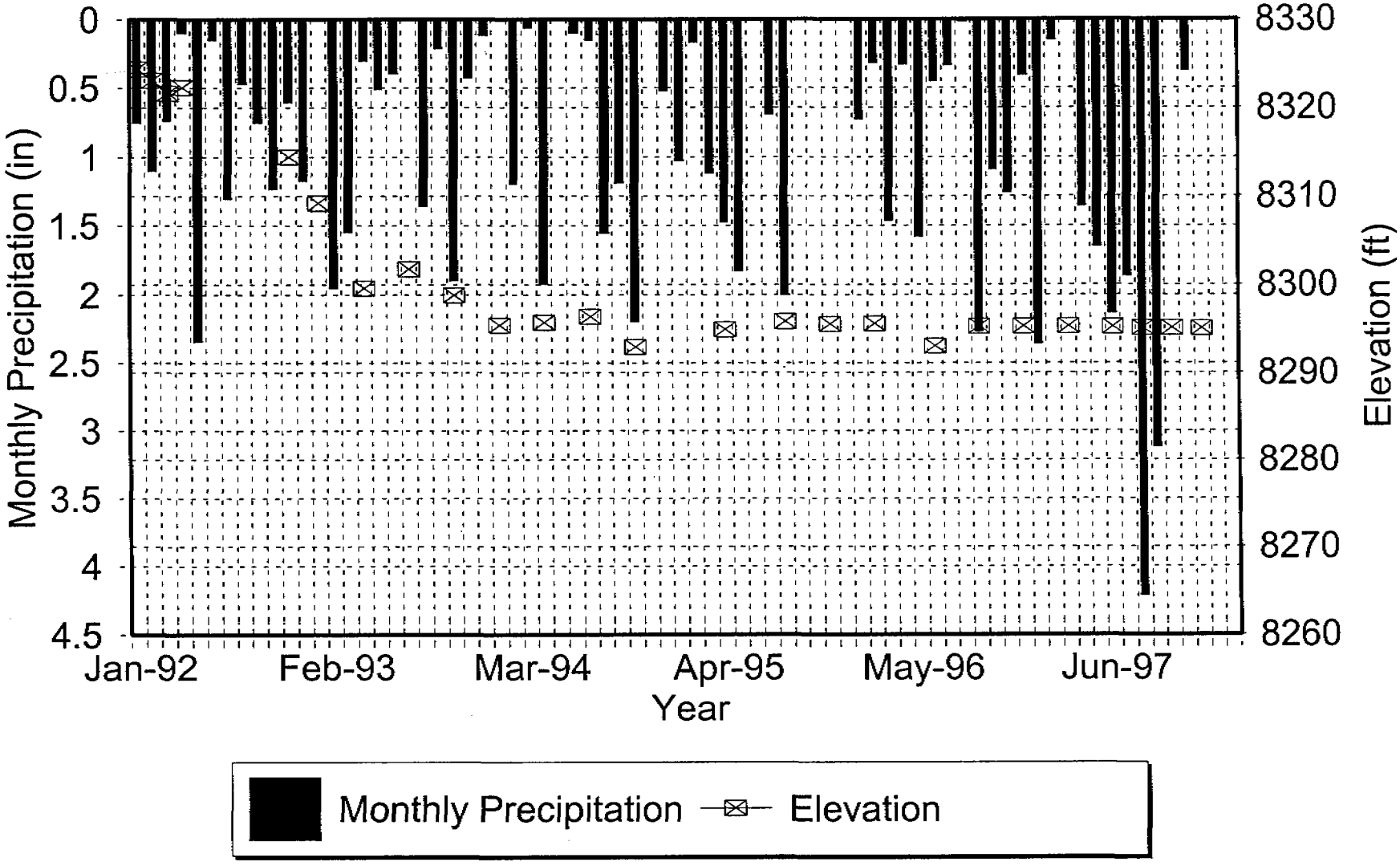
Print Date: February 27, 1998

Station: P9201BWD | Property: Star Point | Location: 1125' N 1875' W of SE com. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-92		8324.7																				
Feb-92		8325.4																				
Mar-92		8319.4																				
Apr-92		8324.6																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8318.8																				
Sep-92																						
Oct-92																						
Nov-92		8313.9																				
Dec-92																						
Jan-93		8309																				
Feb-93																						
Mar-93																						
Apr-93		8301.9																				
May-93																						
Jun-93																						
Jul-93		8294.5																				
Aug-93																						
Sep-93																						
Oct-93		8252.1																				
Nov-93																						
Dec-93																						
Jan-94		8286.6																				
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94																						
Jul-94		8282																				
Aug-94																						
Sep-94																						
Oct-94		8252.5																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95		8279.1																				
Mar-95																						
Apr-95		8278.1																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8261																				
Sep-95																						
Oct-95																						
Nov-95		8283.2																				
Dec-95																						
Jan-96																						
Feb-96	02/27/96	8282.7																				
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/23/96	8281.1																				
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8281.1																				
Oct-96																						
Nov-96																						
Dec-96	12/17/96	8281.3																				
Jan-97																						
Feb-97																						
Mar-97	03/13/97	8261																				
Apr-97																						
May-97																						
Jun-97	06/17/97	8277.7																				
Jul-97																						
Aug-97	08/21/97	8280.6																				
Sep-97																						
Oct-97	10/02/97	8280.6																				
Nov-97																						
Dec-97		8280.9																				

Station P9201AWD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P9201AWD | Property: Star Point | Location: 1125' N 1875' W of SE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
	Count	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Minimum	8292.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Maximum	8324.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Average	8301.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Standard Deviation	10.45	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. -1 Std. Dev.	8291	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. +1 Std. Dev.	8311.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. -2 Std. Dev.	8280.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. +2 Std. Dev.	8322.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

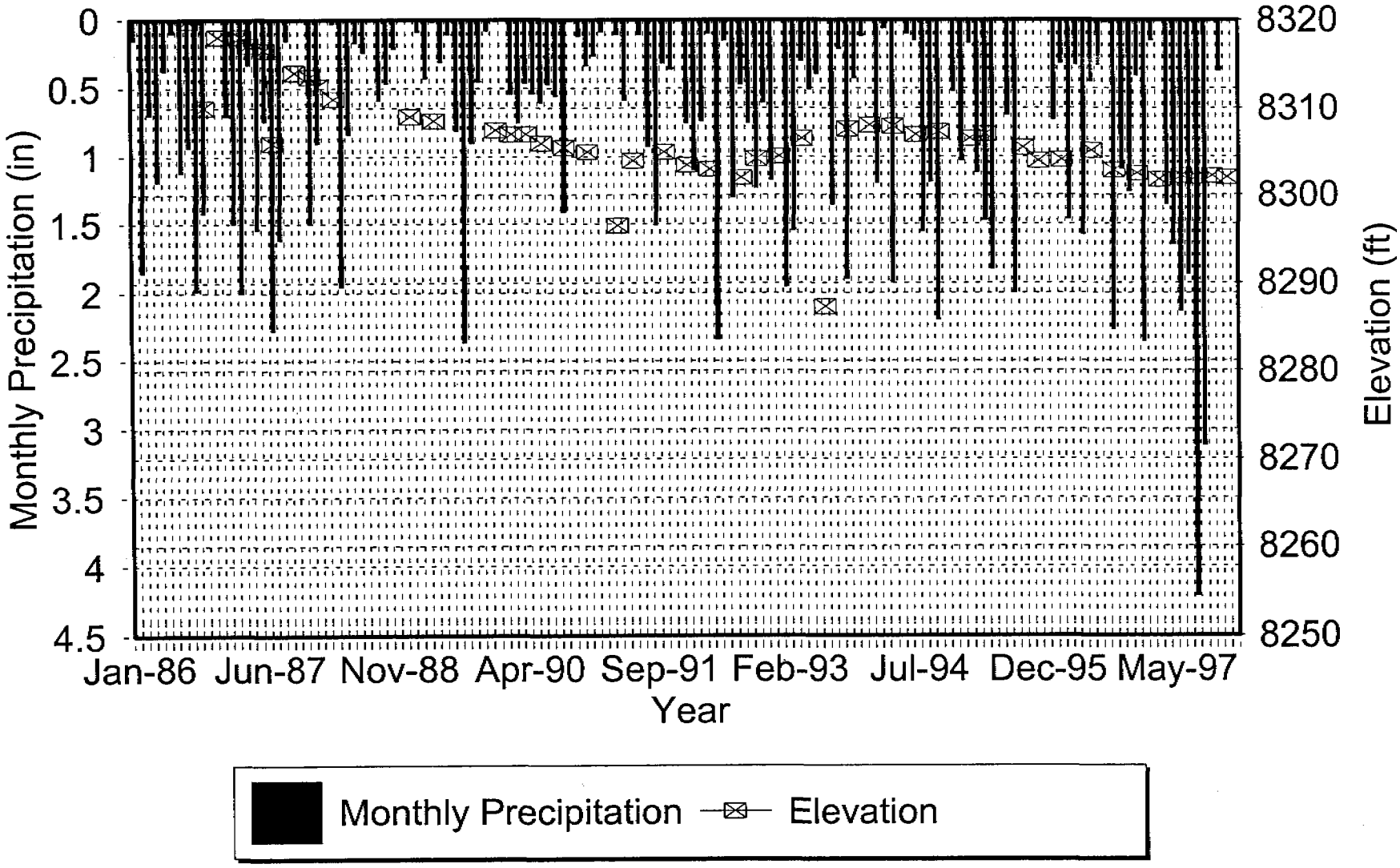
Print Date: February 27, 1998

Station: P9201AWD | Property: Star Point | Location: 1125' N 1875' W of SE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-92		8324.3																				
Feb-92		8323.1																				
Mar-92		8321.6																				
Apr-92		8322.3																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92		8314.4																				
Dec-92																						
Jan-93		8309.2																				
Feb-93																						
Mar-93																						
Apr-93		8299.6																				
May-93																						
Jun-93																						
Jul-93		8301.6																				
Aug-93																						
Sep-93																						
Oct-93		8298.8																				
Nov-93																						
Dec-93																						
Jan-94		8295.4																				
Feb-94																						
Mar-94																						
Apr-94		8295.7																				
May-94																						
Jun-94																						
Jul-94		8296.4																				
Aug-94																						
Sep-94																						
Oct-94		8292.9																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95		8294.9																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8295.8																				
Sep-95																						
Oct-95																						
Nov-95		8295.5																				
Dec-95																						
Jan-96																						
Feb-96	02/27/96	8295.6																				
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/23/96	8293																				
Jul-96																						
Aug-96																						
Sep-96	09/30/96	8295.3																				
Oct-96																						
Nov-96																						
Dec-96	12/17/96	8295.3																				
Jan-97																						
Feb-97																						
Mar-97	03/13/97	8295.3																				
Apr-97																						
May-97																						
Jun-97	06/17/97	8295.2																				
Jul-97																						
Aug-97	08/21/97	8295.1																				
Sep-97																						
Oct-97	10/02/97	8295.1																				
Nov-97																						
Dec-97		8295																				

Station P8603WD

Monthly Precipitation vs. Elevation



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P8603WD | Property: Star Point | Location: 2000' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 6468

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
END DATA																						
	Count	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Minimum	8287.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Maximum	8319.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Average	8306.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Standard Deviation	5.6782	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. -1 Std. Dev.	8301	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. +1 Std. Dev.	8312.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. -2 Std. Dev.	8295.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
	Avg. +2 Std. Dev.	8318	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: P8603WD | Property: Star Point | Location: 2000' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8468

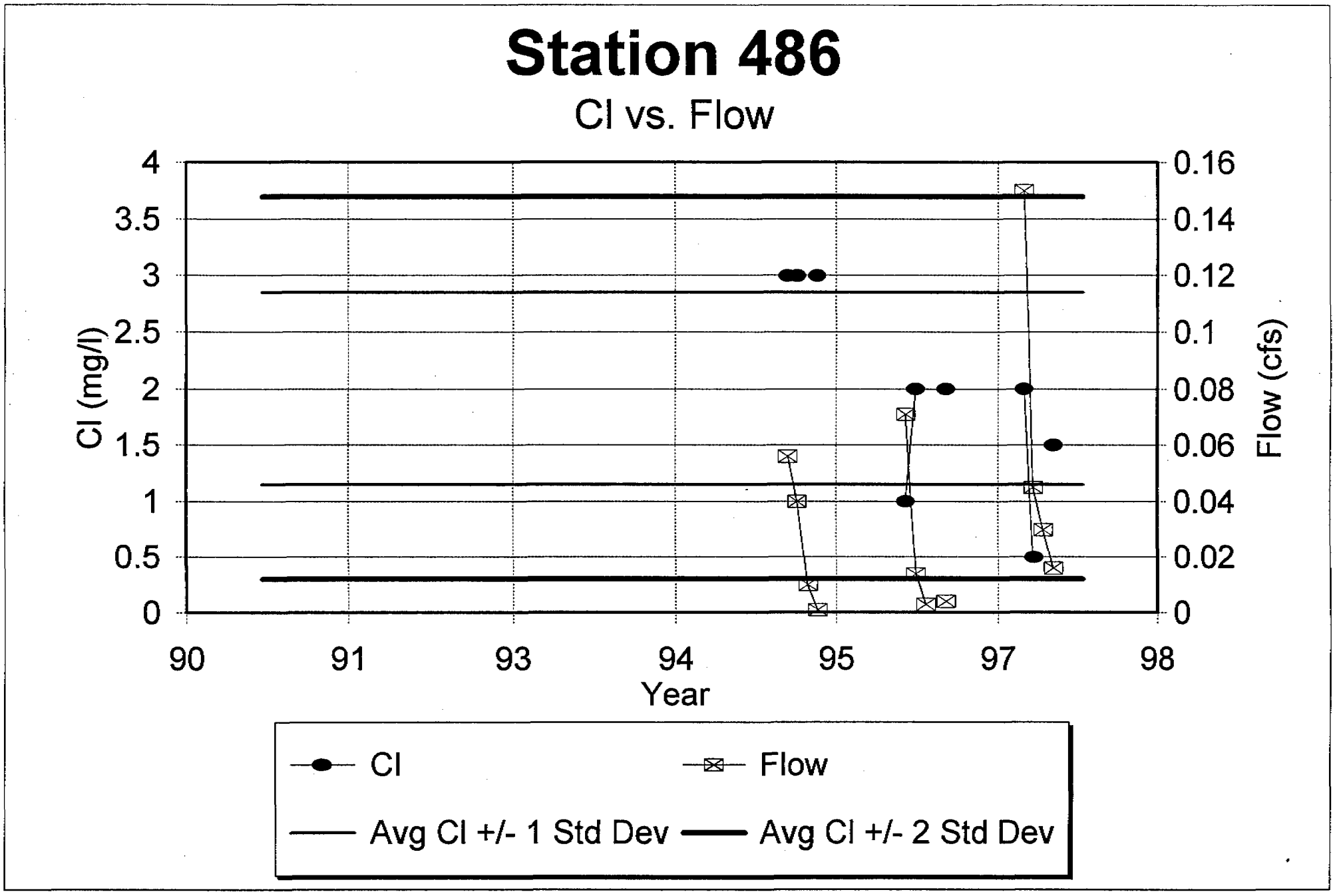
Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cal/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-92		8303.5																					
Feb-92																							
Mar-92																							
Apr-92		8303																					
May-92																							
Jun-92																							
Jul-92																							
Aug-92		8302																					
Sep-92																							
Oct-92		8304.2																					
Nov-92																							
Dec-92																							
Jan-93		8304.5																					
Feb-93																							
Mar-93																							
Apr-93		8306.5																					
May-93																							
Jun-93																							
Jul-93		8287.3																					
Aug-93																							
Sep-93																							
Oct-93		8307.6																					
Nov-93																							
Dec-93																							
Jan-94		8308																					
Feb-94																							
Mar-94																							
Apr-94		8307.9																					
May-94																							
Jun-94																							
Jul-94		8307																					
Aug-94																							
Sep-94																							
Oct-94		8307.3																					
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95		8306.5																					
Mar-95																							
Apr-95		8307																					
May-95																							
Jun-95																							
Jul-95																							
Aug-95																							
Sep-95		8305.5																					
Oct-95																							
Nov-95		8304																					
Dec-95																							
Jan-96																							
Feb-96	02/27/96	8304.1																					
Mar-96																							
Apr-96																							
May-96																							
Jun-96	06/23/96	8305.1																					
Jul-96																							
Aug-96																							
Sep-96	09/30/96	8302.9																					
Oct-96																							
Nov-96																							
Dec-96	12/17/96	8302.5																					
Jan-97																							
Feb-97																							
Mar-97	03/13/97	8301.8																					
Apr-97																							
May-97																							
Jun-97	06/17/97	8302.2																					
Jul-97																							
Aug-97	08/21/97	8302.1																					
Sep-97																							
Oct-97	10/02/97	8302.2																					
Nov-97																							
Dec-97		8302																					

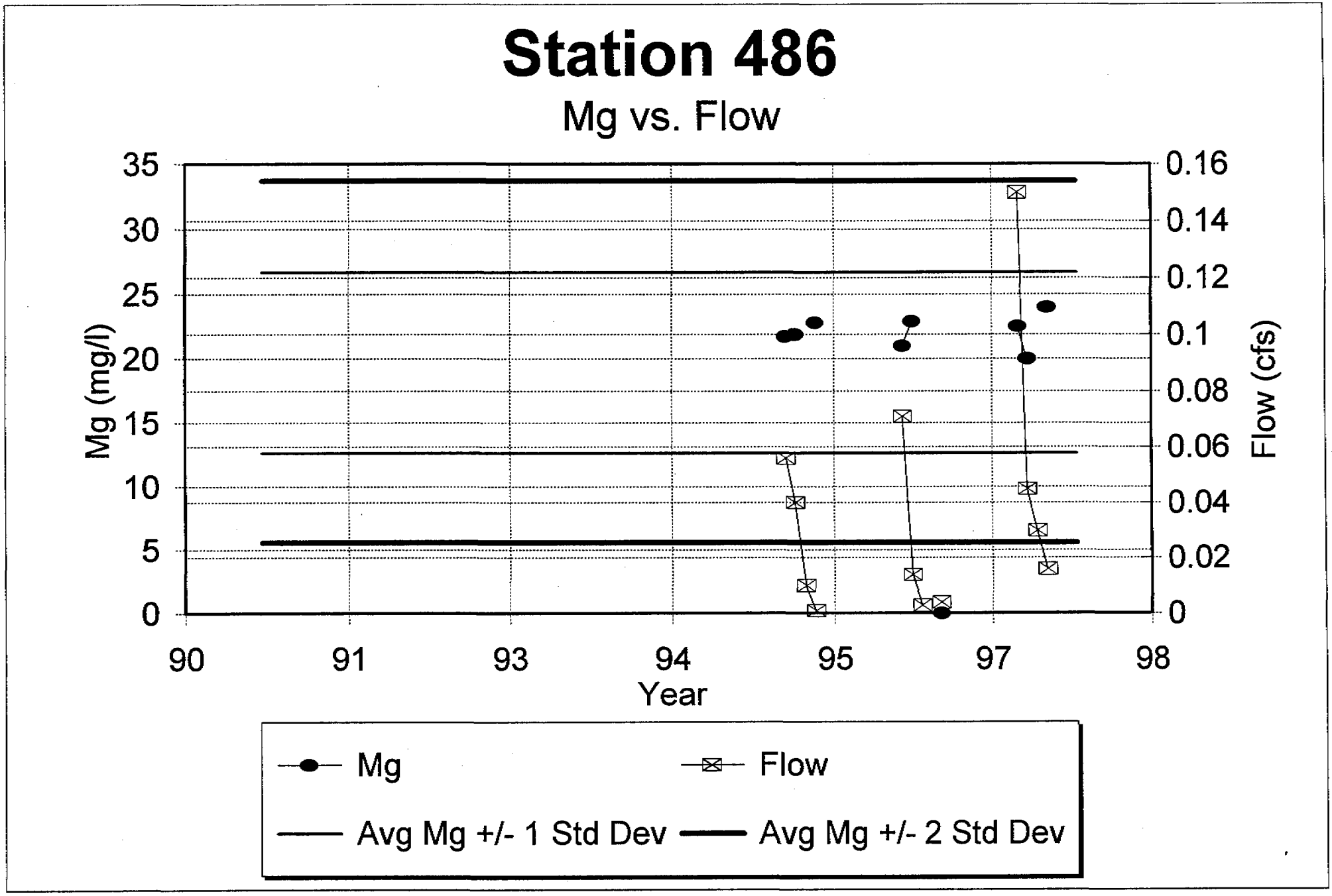
Cyprus Plateau Mining Company - Water Quality Data

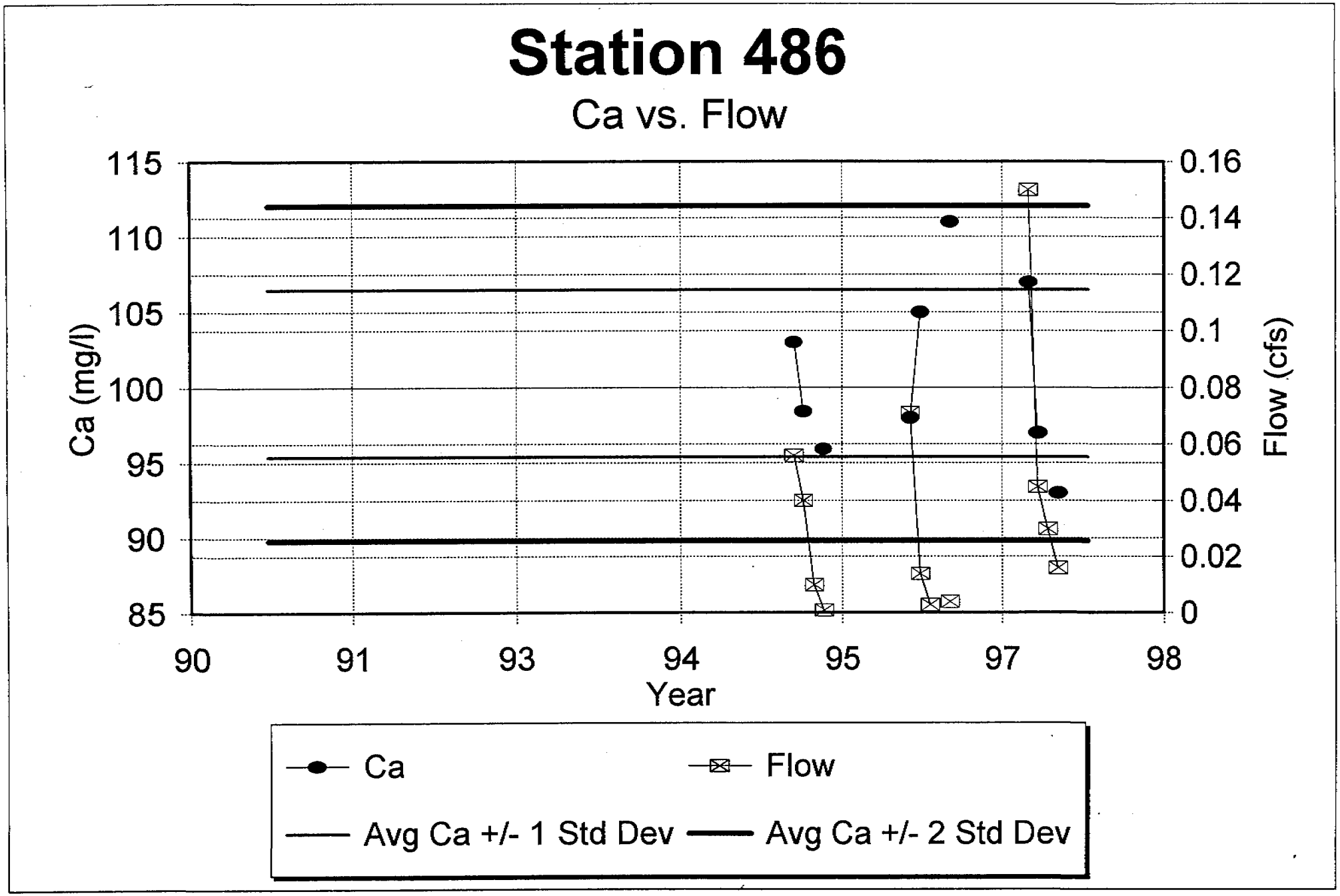
Print Date: February 27, 1998

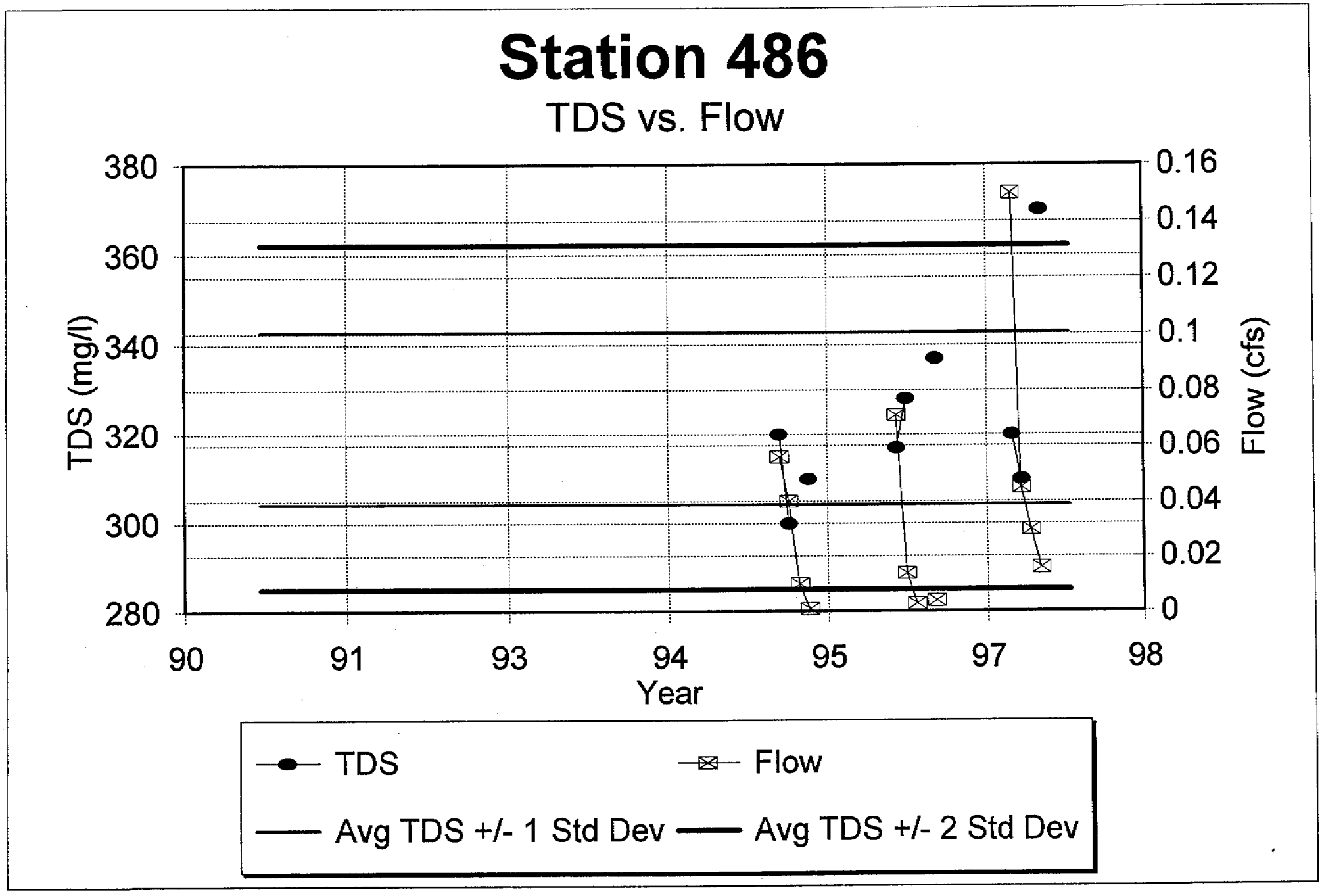
Station: P8603WD | Property: Star Point | Location: 2000' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8468

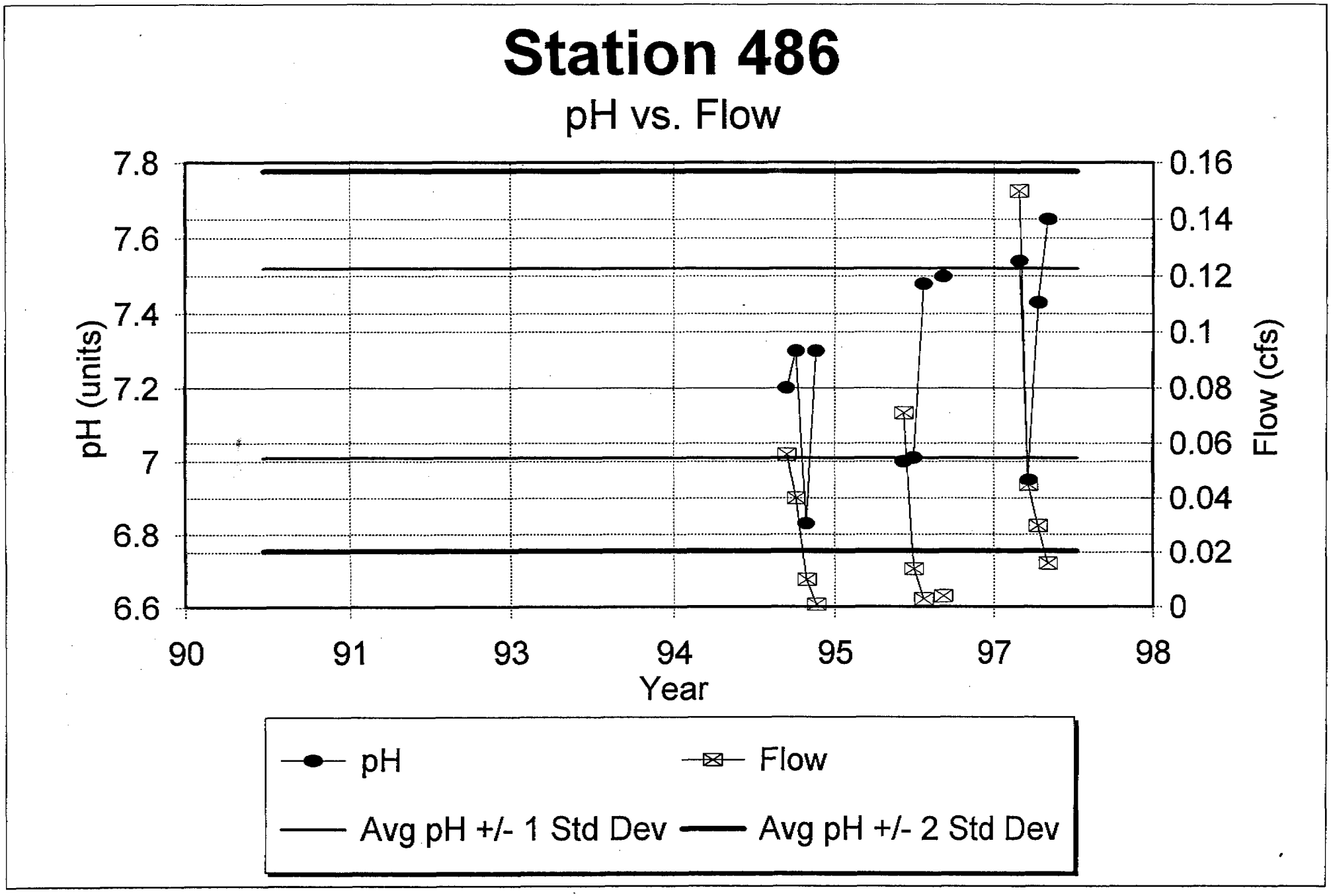
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86		8319.8																				
Sep-86																						
Oct-86		8310																				
Nov-86																						
Dec-86		8318																				
Jan-87																						
Feb-87																						
Mar-87		8318																				
Apr-87		8317																				
May-87																						
Jun-87		8316.5																				
Jul-87		8306																				
Aug-87																						
Sep-87																						
Oct-87		8314																				
Nov-87																						
Dec-87		8313.5																				
Jan-88		8312.4																				
Feb-88																						
Mar-88		8311																				
Apr-88																						
May-88																						
Jun-88																						
Jul-88																						
Aug-88																						
Sep-88																						
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89		8309																				
Feb-89																						
Mar-89																						
Apr-89		8308.5																				
May-89																						
Jun-89																						
Jul-89																						
Aug-89																						
Sep-89																						
Oct-89																						
Nov-89																						
Dec-89		8307.5																				
Jan-90																						
Feb-90		8307																				
Mar-90																						
Apr-90		8307																				
May-90																						
Jun-90		8306																				
Jul-90																						
Aug-90																						
Sep-90		8305.5																				
Oct-90																						
Nov-90																						
Dec-90		8305																				
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91		8296.5																				
May-91																						
Jun-91		8304																				
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91		8305																				
Nov-91																						
Dec-91																						


Station 486
Cl vs. Flow
Cl (mg/l)
4
3.5
3
2.5
2
1.5
1
0.5
0
Flow (cfs)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
90
91
93
94
95
97
98
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 486
Mg vs. Flow
Mg (mg/l)
35
30
25
20
15
10
5
0
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

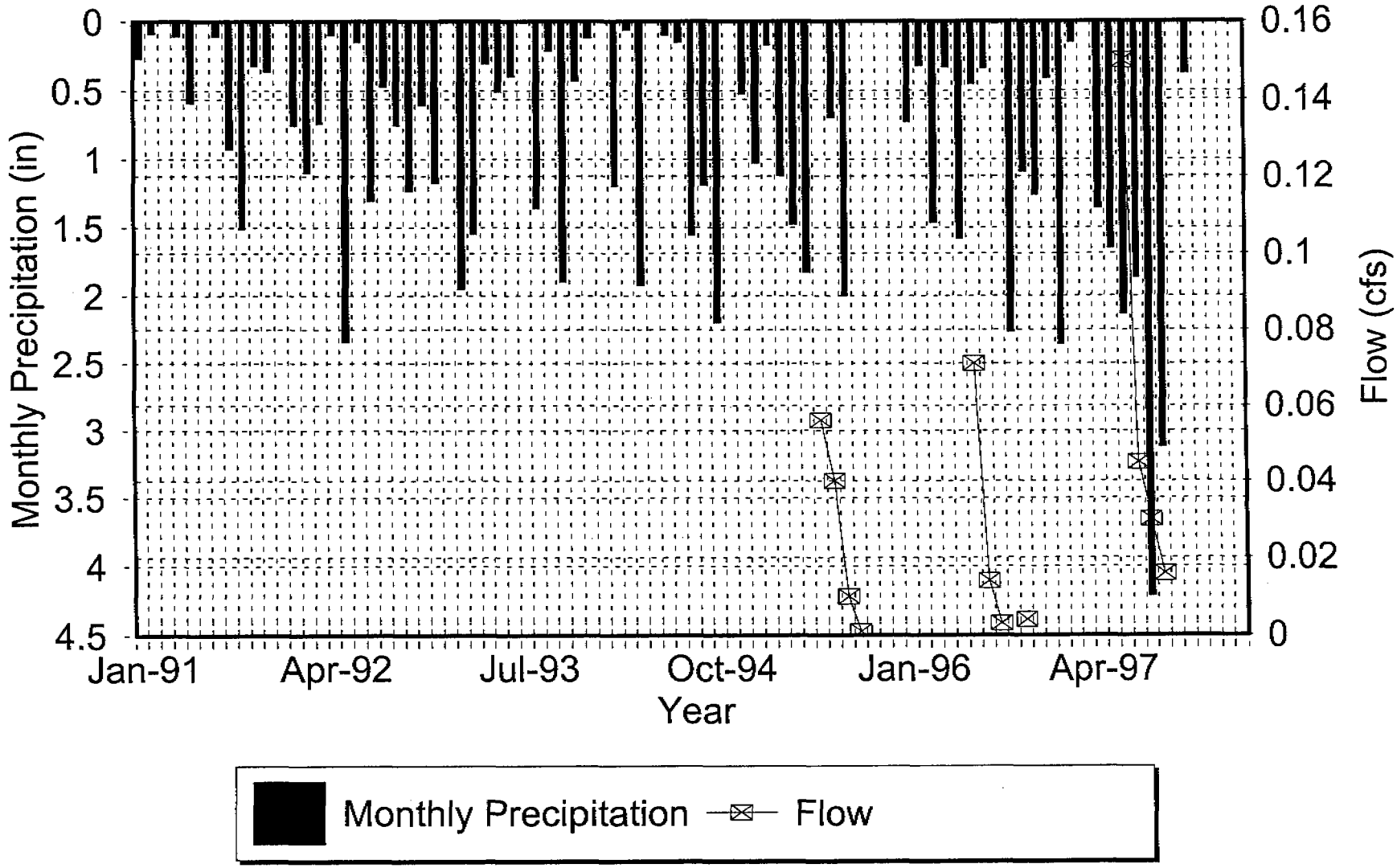

Station 486
Ca vs. Flow
115
110
105
100
95
90
85
Ca (mg/l)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 486
TDS vs. Flow
TDS (mg/l)
380
360
340
320
300
280
Flow (cfs)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
90
91
93
94
95
97
98
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 486
pH vs. Flow
7.8
7.6
7.4
7.2
7
6.8
6.6
pH (units)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Flow (cfs)
90
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 486

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 486 | Property: Star Point | Location: 1250' S 875' E of NW com. Sec 25, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 9100

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/18/97	0.15	7.54	707	5	320			360	310	2 <	2	10 <	107	22.5	2 <	3	7.9	0.01 <	0.01 <	0.005	
Jul-97	07/30/97	0.045	6.95	601	6	310			320	310	10 <	0.5 <	5 <	97	20	1	2.8	3.4	0.01 <	0.02	0.005	
Aug-97	08/13/97	0.03	7.43	601	6.5																	
Sep-97	09/16/97	0.016	7.65	578	7	370			330	310	10 <	1.5	5 <	93	24	0.9	2.8	4	0.01 <	0.94	0.022	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		12	12	12	12	9	0	0	9	9	9	9	9	9	9	9	9	9	9	9	9	
Minimum		0.001	6.83	511	4.5	300	ERR	ERR	320	295 <	2 <	0.5 <	5 <	93	0.005	0.4 <	2.4	-0.5 <	0.01 <	0.01 <	0.005	
Maximum		0.15	7.65	3900	10	370	ERR	ERR	377	328 <	10 <	3 <	30 <	111	24	2 <	3	7.9 <	0.02 <	0.94 <	0.022	
Average		0.0367	7.2658	880.58	6.7408	323.56	ERR	ERR	343.44	313.44 <	3.7778 <	2 <	10.778 <	100.92	19.645	0.8 <	2.7111	4.3222 <	0.0122 <	0.1244 <	0.0074	
Standard Deviation		0.0405	0.2554	912	1.5617	19.288	ERR	ERR	17.147	11.461 <	3.3259 <	0.8498 <	7.0989 <	5.5549	7.029	0.4761 <	0.1728	2.4517 <	0.0042 <	0.2894 <	0.0054	
Avg. -1 Std. Dev.		-0.004	7.0104	-31.41	5.1792	304.27	ERR	ERR	326.3	301.98 <	0.4519 <	1.1502 <	3.6788 <	95.367	12.616	0.3239 <	2.5383	1.8706 <	0.0081 <	-0.165 <	0.0021	
Avg. +1 Std. Dev.		0.0771	7.5213	1792.6	8.3025	342.84	ERR	ERR	360.59	324.91 <	7.1037 <	2.8498 <	17.877 <	106.48	26.674	1.2761 <	2.884	6.7739 <	0.0164 <	0.4138 <	0.0128	
Avg. -2 Std. Dev.		-0.044	6.755	-943.4	3.6175	284.98	ERR	ERR	309.15	290.52 <	-2.874 <	0.3003 <	-3.42 <	89.812	5.5869	-0.152 <	2.3654	-0.581 <	0.0039 <	-0.454 <	-0.003	
Avg. +2 Std. Dev.		0.1176	7.7767	2704.6	9.8642	362.13	ERR	ERR	377.74	336.37 <	10.43 <	3.6997 <	24.976 <	112.03	33.703	1.7522 <	3.0568	9.2255 <	0.0205 <	0.7032 <	0.0182	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 486 | Property: Star Point | Location: 1250' S 675' E of NW corn. Sec 25, T15S, R7E | Station Type: | Sampling Frequency: Quarterly | Formation: | Elevation: 9100

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
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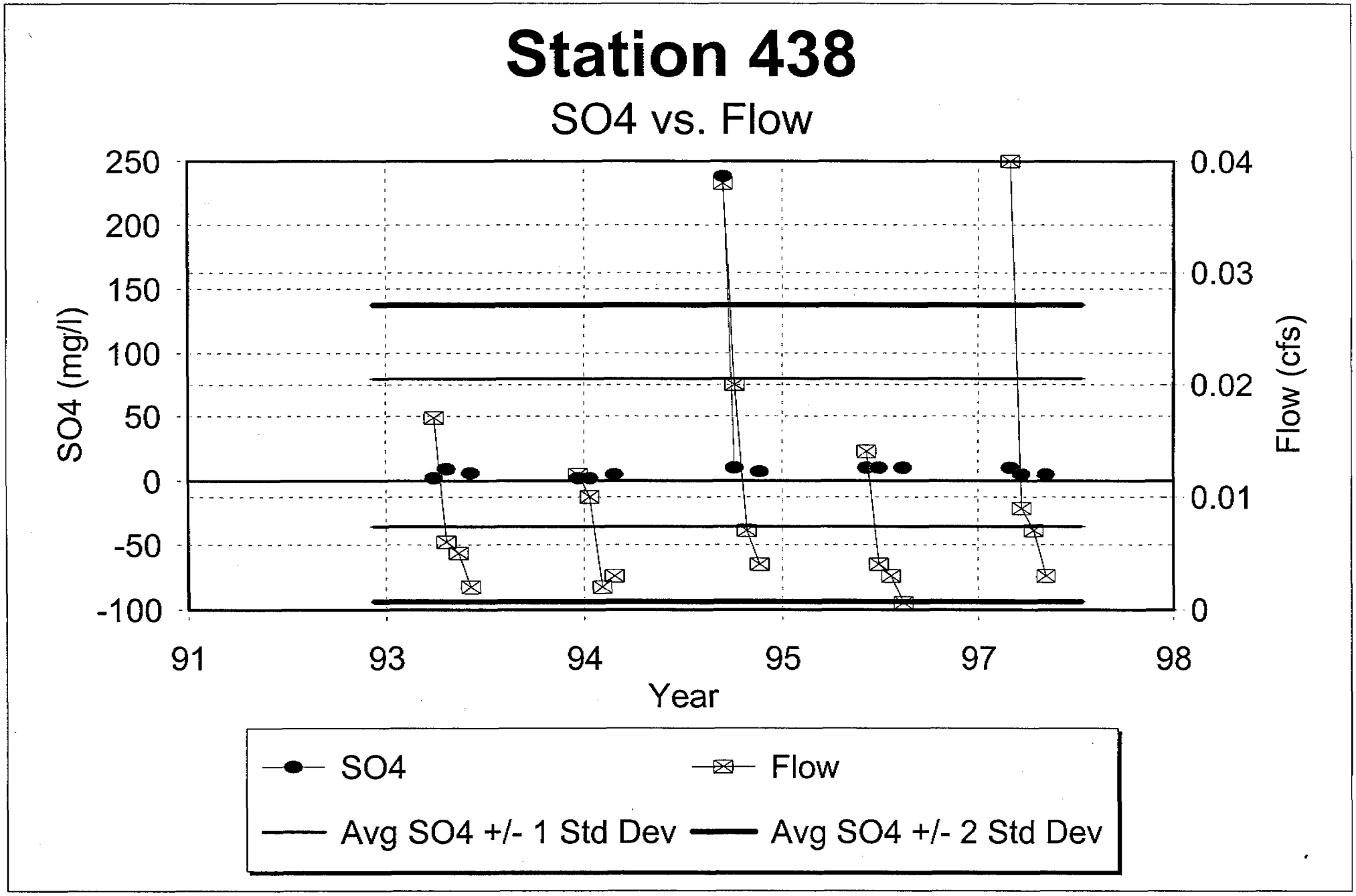
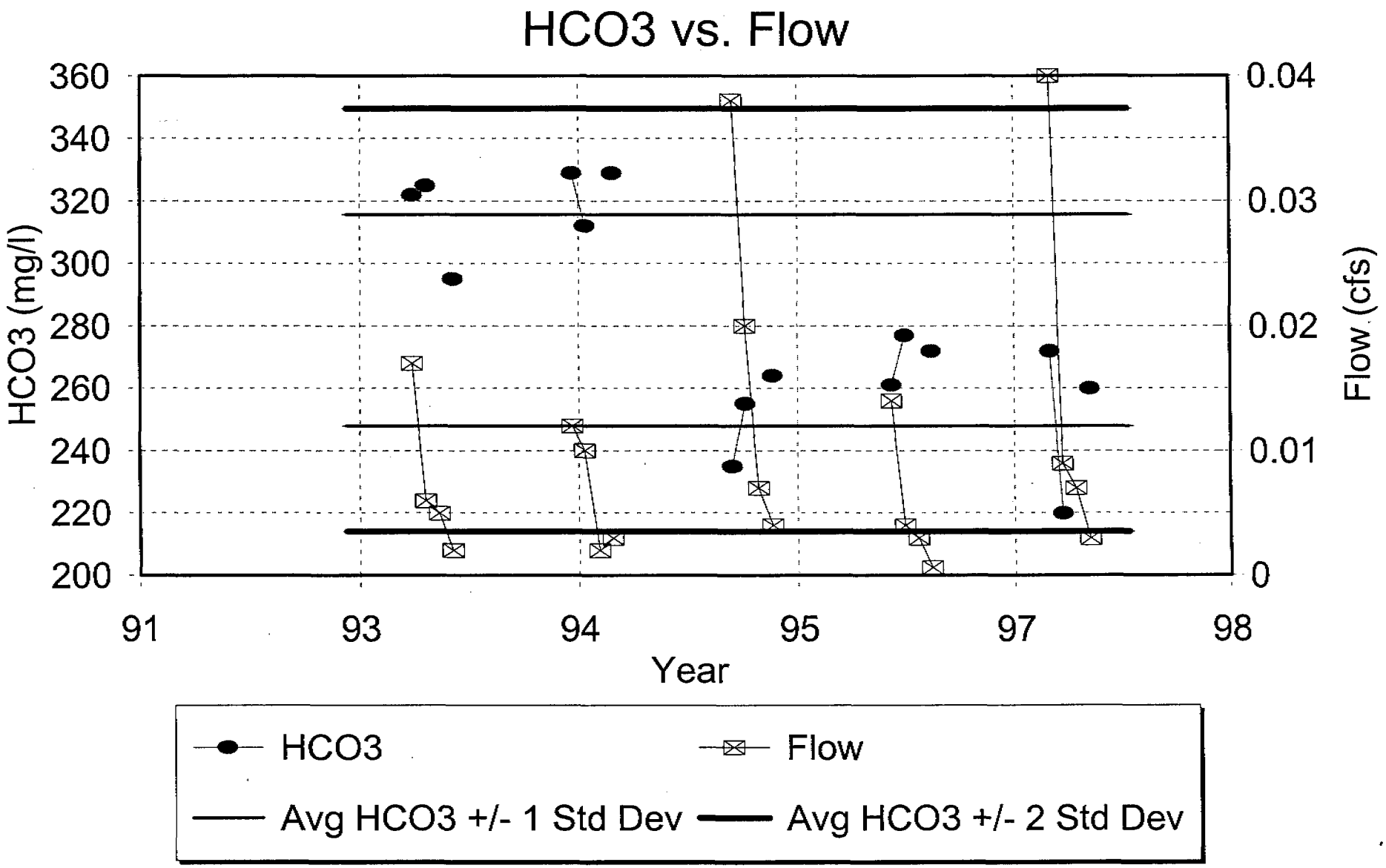
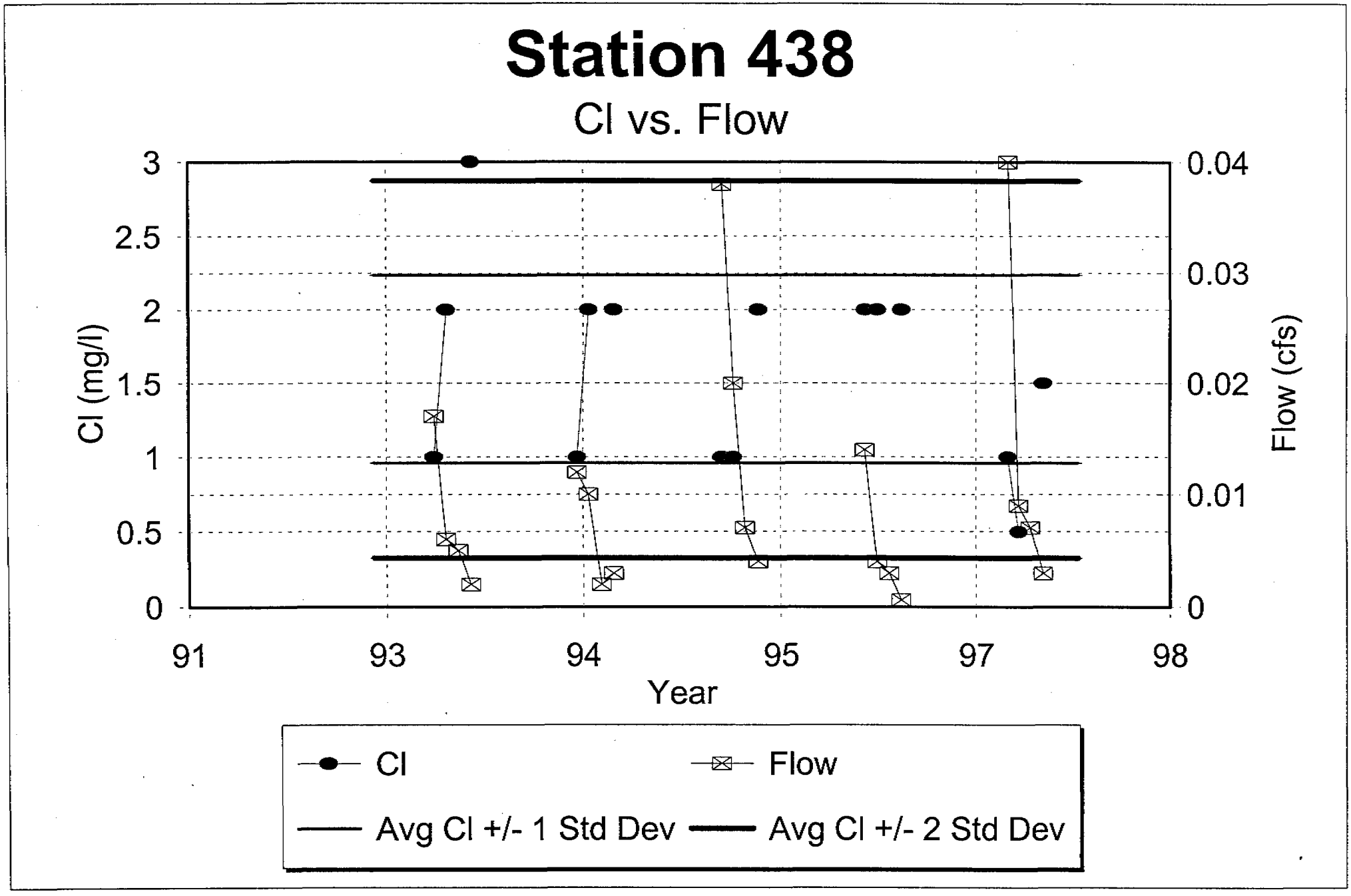
Apr-94																						
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.056	7.2	623	4.5	320			347	321 <	2	3	30	103	21.7	0.6	2.6	-0.5	0.02 <	0.01 <	0.005	
Jul-95	07/26/95	0.04	7.3	572	7	300			336	295 <	2	3	10	98.4	21.9	0.5	2.6	5	0.02 <	0.01 <	0.005	
Aug-95	08/23/95	0.01	6.83	534	8																	
Sep-95	09/26/95	0.001	7.3	3900	8.89	310			333	297 <	2	3	7	95.9	22.6	0.9	2.7	4.9 <	0.01	0.09	0.01	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/11/96	0.071	7	605	6	317			331	325	2 <	1 <	10 <	98	21	0.4	2.4	1.8	0.01 <	0.01 <	0.005	
Jul-96	07/24/96	0.014	7.01	646	5	328			357	325	2 <	2	10 <	105	22.9	0.4	2.6	5	0.01 <	0.01 <	0.005	
Aug-96	08/19/96	0.003	7.48	511	10																	
Sep-96																						
Oct-96	09/30/96	0.004	7.5	689	7	337			377	328	2 <	2	10 <	111	0.005	0.5	2.9	7.4	0.01 <	0.02	0.005	
Nov-96																						

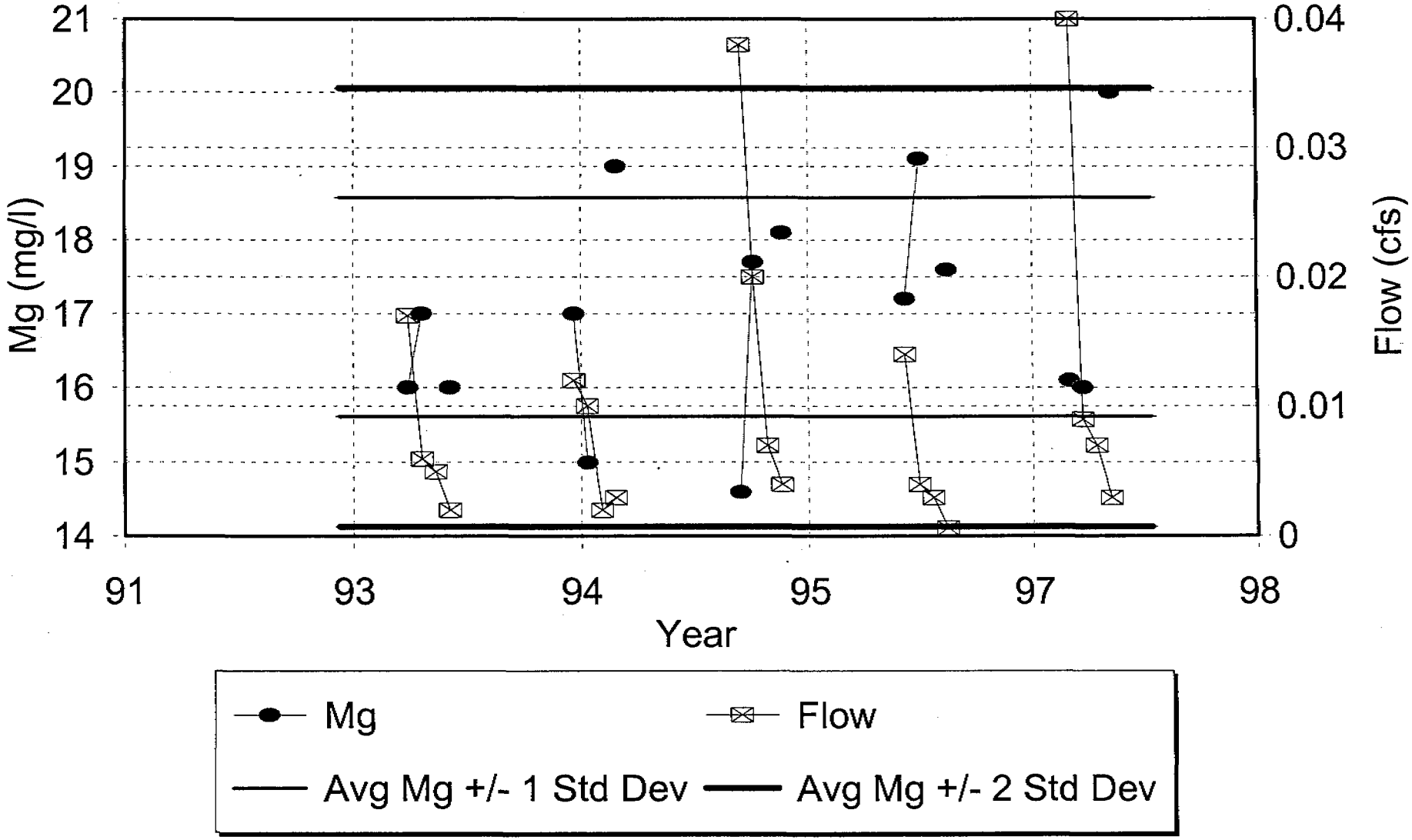

Station 438
SO4 vs. Flow
250
200
150
100
50
0
-50
-100
SO4 (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
93
94
95
97
98
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

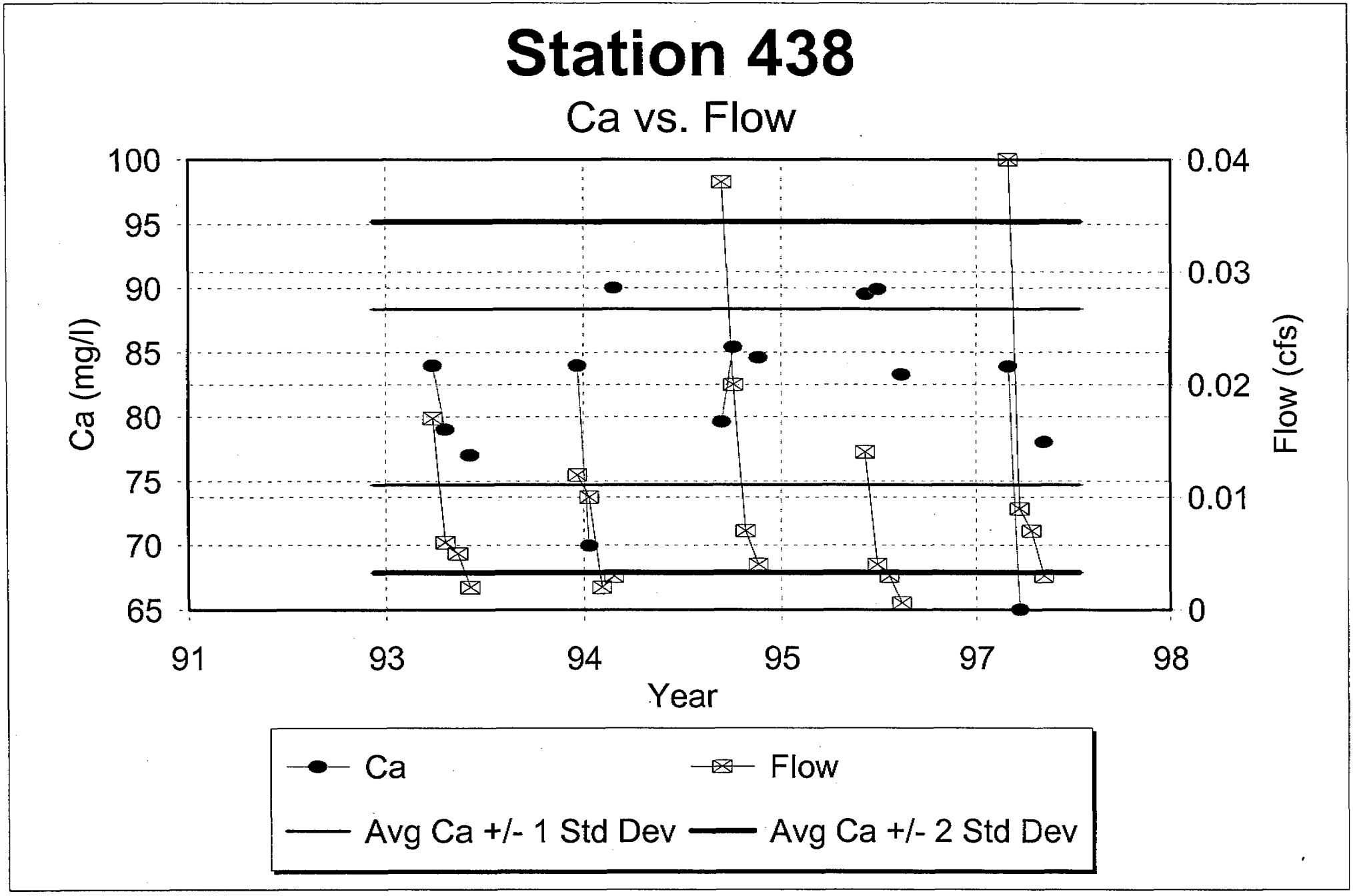

Station 438
HCO3 vs. Flow
HCO3 (mg/l)
360
340
320
300
280
260
240
220
200
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

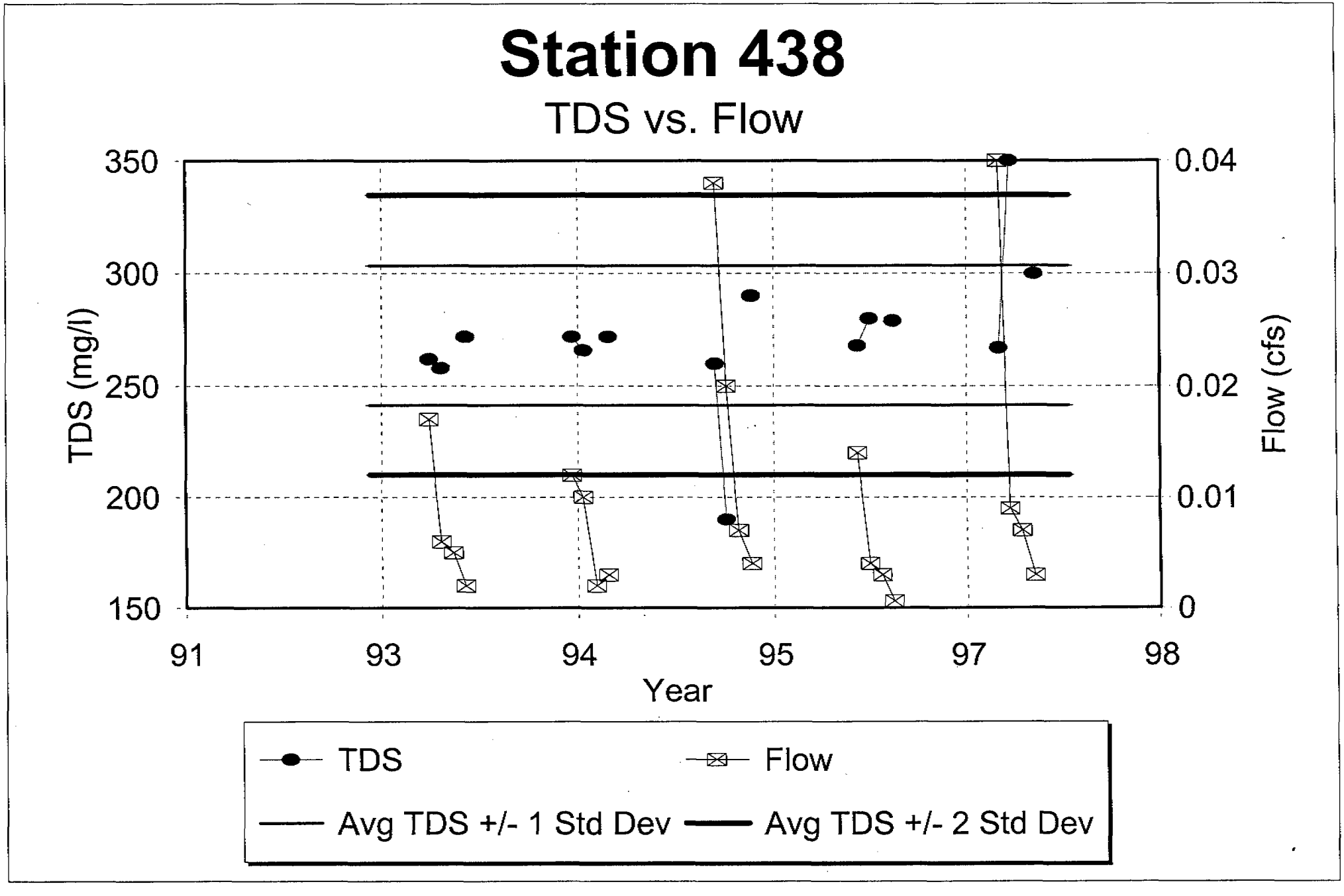

Station 438
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
3
2.5
2
1.5
1
0.5
0
0.04
0.03
0.02
0.01
0
91
93
94
95
97
98
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

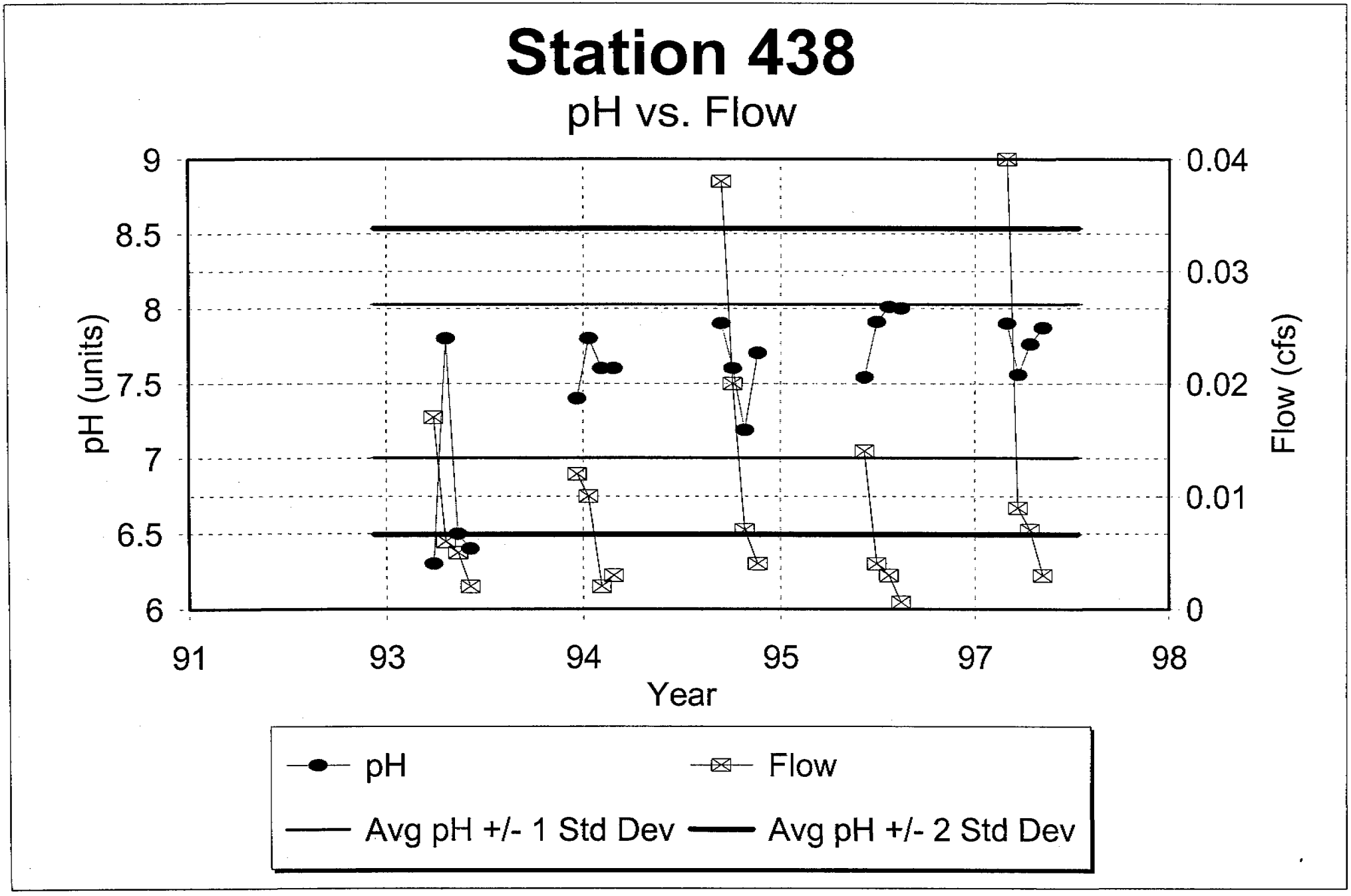
Station 438

Mg vs. Flow



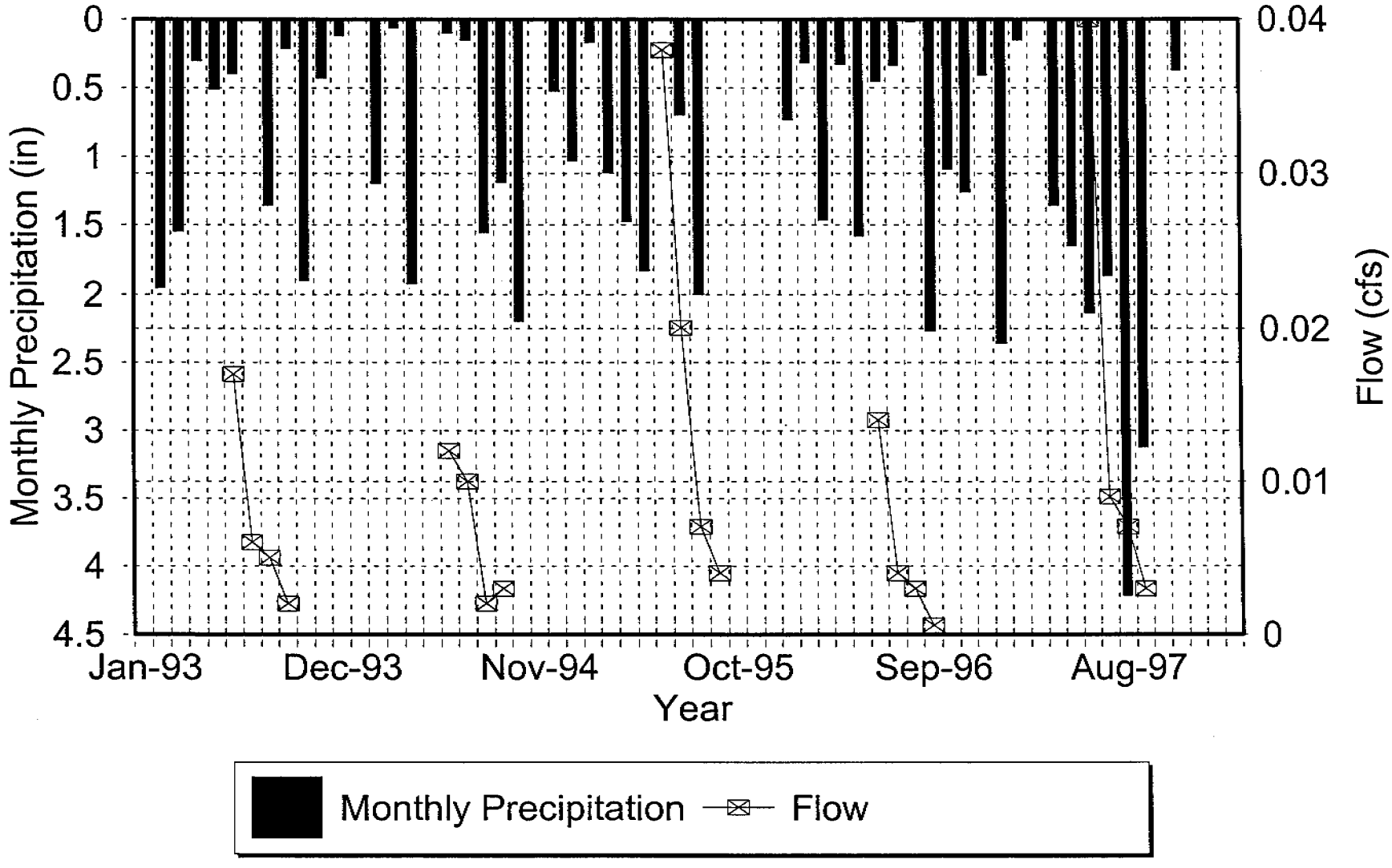

Station 438
Ca vs. Flow
100
95
90
85
80
75
70
65
Ca (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 438
TDS vs. Flow
350
300
250
200
150
TDS (mg/l)
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
93
94
95
97
98
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 438
pH vs. Flow
9
8.5
8
7.5
7
6.5
6
pH (units)
0.04
0.03
0.02
0.01
0
Flow (cfs)
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 438

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 438 | Property: Star Point | Location: 1500' S 1500' W of NE corn Sec 15, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9480

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

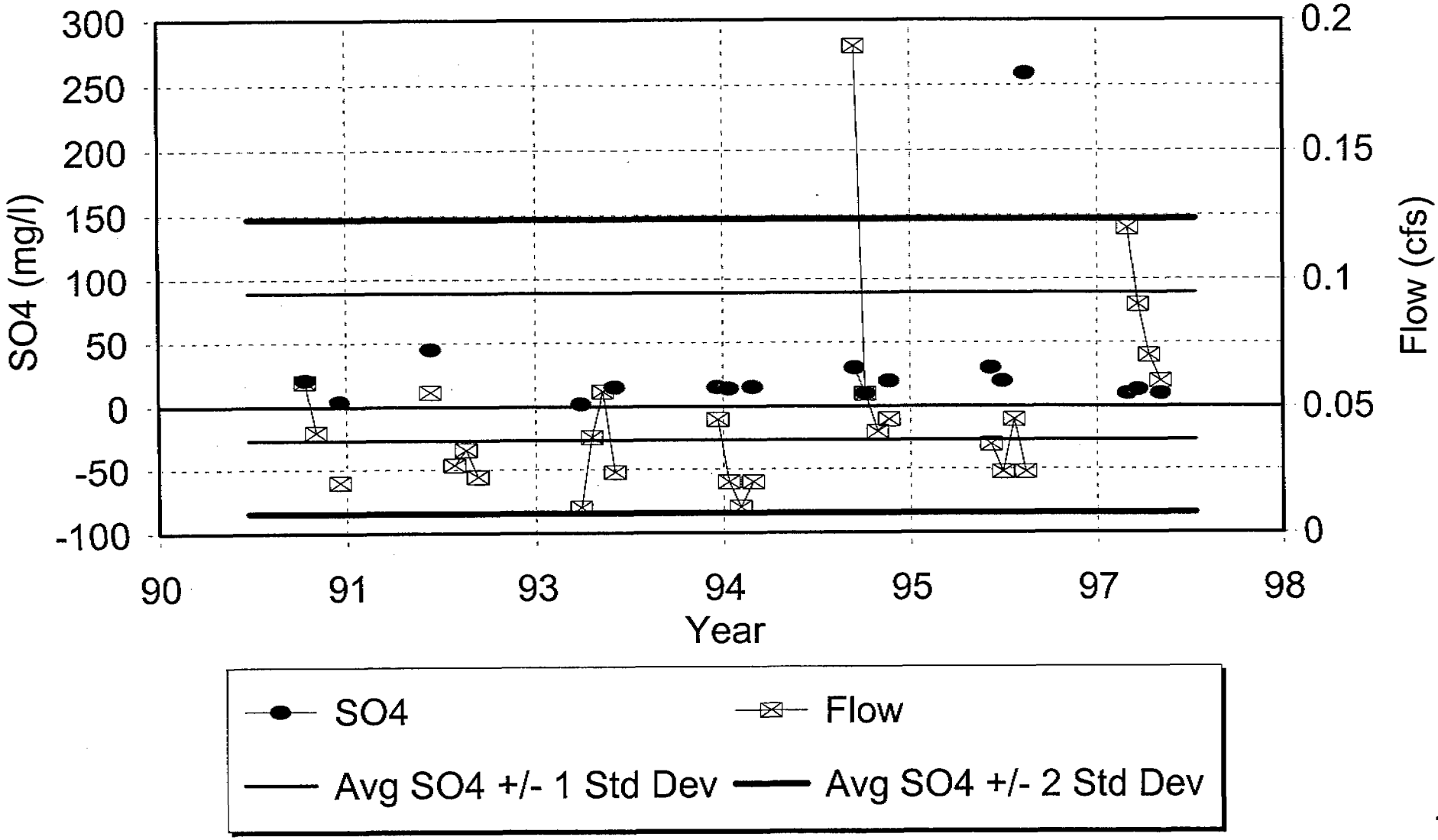
Print Date: February 27, 1998

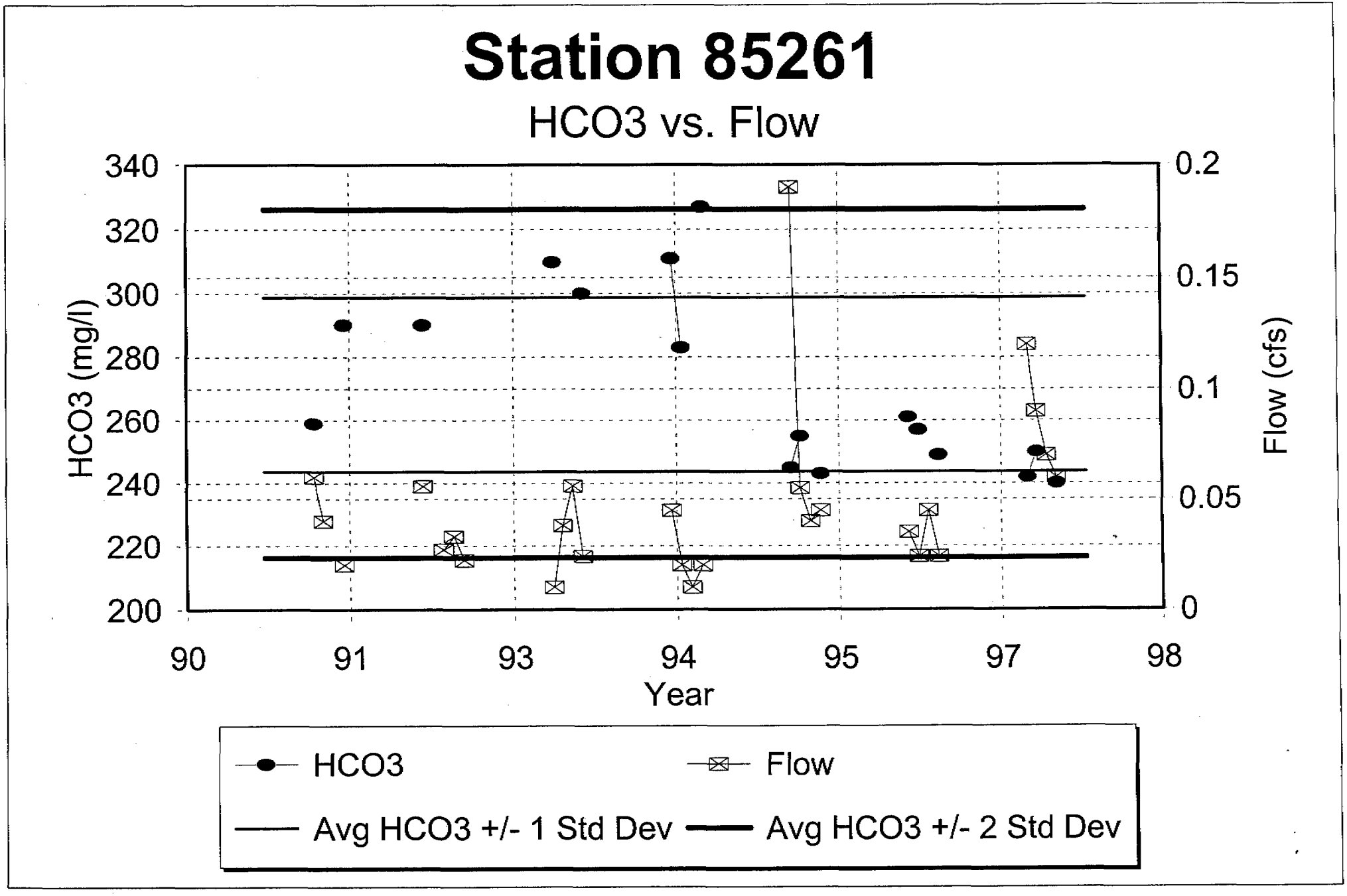
Station: 438 | Property: Star Point | Location: 1500' S 1500' W of NE com Sec 15, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9480

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/21/93	0.017	6.3	457	7.9	262			276	322	0	1	2	84	16 <	1	2	<	0.02	0.06 <	0.01	
Jul-93	07/27/93	0.006	7.8	355	7.8	258			267	325	0	2	9	79	17 <	1	2	<	0.02	0.1 <	0.01	
Aug-93	08/17/93	0.005	6.5	485	13.2																	
Sep-93	09/27/93	0.002	6.4	499	9.1	272			258	295	0	3	6	77	16 <	1	2	<	0.02 <	0.02 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/20/94	0.012	7.4	516	4.9	272			280	329	0	1	2	84	17 <	1	2	<	0.02	0.03 <	0.01	
Jul-94	07/19/94	< 0.01	7.8	504	16.7	266			237	312	5	2	2	70	15 <	1	2	<	0.02	0.24 <	0.01	POOR SAMPLE - COWS
Aug-94	08/31/94	0.002	7.6	426	13.8																	
Sep-94	09/21/94	0.003	7.6	540	10.1	272			303	329	0	2	5	90	19 <	1	2	<	0.02	2.06	0.05	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	0.038	7.9	468	8	260			259	235 <	2 <	1	238	79.6	14.6	0.6	1.9	5.8	0.06	0.37	0.014	
Jul-95	07/26/95	0.02	7.6	545	7	190			286	255 <	2 <	1	10	85.4	17.7	0.4	2.3	4.2	0.02	0.42	0.008	
Aug-95	08/23/95	0.007	7.19	477	10																	
Sep-95	09/27/95	0.004	7.7	550	10	290			286	264 <	2	2	7	84.6	18.1	0.5	2.1	3 <	0.01	0.08 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/12/96	0.014	7.54	547	7	268			294	261	2 <	2	10 <	89.5	17.2	0.4	2.1	6.3	0.01	0.03	0.005	
Jul-96	07/27/96	0.004	7.91	514	9	280			303	277	2 <	2	10 <	89.9	19.1	0.5	2.1	4.9	0.01 <	0.03	0.005	
Aug-96	08/19/96	0.003	8.01	477	16																	
Sep-96	09/30/96	0.0006	8	868	11	279			281	272	2 <	2	10 <	83.3	17.6	1.2	2	0.2	0.11	1.01	0.056	
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.04	7.9	520	8.5	267			276	272	2 <	1	10 <	83.9	16.1	0.5	1.9	1.3	0.03	0.3	0.005	
Jul-97	07/30/97	0.009	7.56	530	8	350			230	220	10 <	0.5 <	5 <	65	16	0.8	1.9	2.9	0.01 <	0.07	0.005	
Aug-97	08/13/97	0.007	7.76	532	10																	
Sep-97	09/16/97	0.003	7.87	451	10	300			280	260	10 <	1.5	5 <	78	20	1	2.2	3.6	0.01 <	0.1	0.005	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		20	20	20	20	15	0	0	15	15	15	15	15	15	15	15	15	9	15	15	15	
Minimum		< 0.0006	6.3	355	4.9	190	ERR	ERR	230	220 <	0 <	0.5 <	2 <	65	14.6 <	0.4	1.9	0.2 <	0.01 <	0.02 <	0.005	
Maximum		< 0.04	8.01	868	16.7	350	ERR	ERR	303	329 <	10 <	3 <	238 <	90	20 <	1.2	2.3	6.3 <	0.11 <	2.06 <	0.056	
Average		< 0.0103	7.517	513.05	9.9	272.4	ERR	ERR	274.4	281.87 <	2.6 <	1.6 <	22.067 <	81.547	17.093 <	0.7933	2.0333	3.6 <	0.026 <	0.328 <	0.0139	
Standard Deviation		< 0.0108	0.5103	93.862	2.93	31.138	ERR	ERR	20.545	33.854 <	3.1791 <	0.6377 <	57.789 <	6.8311	1.4821 <	0.267	0.1075	1.8833 <	0.0255 <	0.5259 <	0.0156	
Avg. -1 Std. Dev.		< -0.001	7.0067	419.19	6.97	241.26	ERR	ERR	253.85	248.01 <	-0.579 <	0.9623 <	-35.72 <	74.716	15.611 <	0.5263	1.9258	1.7167 <	0.0005 <	-0.198 <	-0.002	
Avg. +1 Std. Dev.		< 0.0212	8.0273	606.91	12.83	303.54	ERR	ERR	294.95	315.72 <	5.7791 <	2.2377 <	79.855 <	88.376	18.575 <	1.0603	2.1408	5.4833 <	0.0515 <	0.8539 <	0.0295	
Avg. -2 Std. Dev.		< -0.011	6.4964	325.33	4.04	210.12	ERR	ERR	233.31	214.16 <	-3.758 <	0.3246 <	-93.51 <	67.884	14.129 <	0.2593	1.8183	-0.167 <	-0.025 <	-0.724 <	-0.017	
Avg. +2 Std. Dev.		< 0.032	8.5376	700.77	15.76	334.68	ERR	ERR	315.49	349.58 <	8.9582 <	2.8754 <	137.64 <	95.209	20.058 <	1.3273	2.2483	7.3665 <	0.077 <	1.3798 <	0.0451	

Station 85261

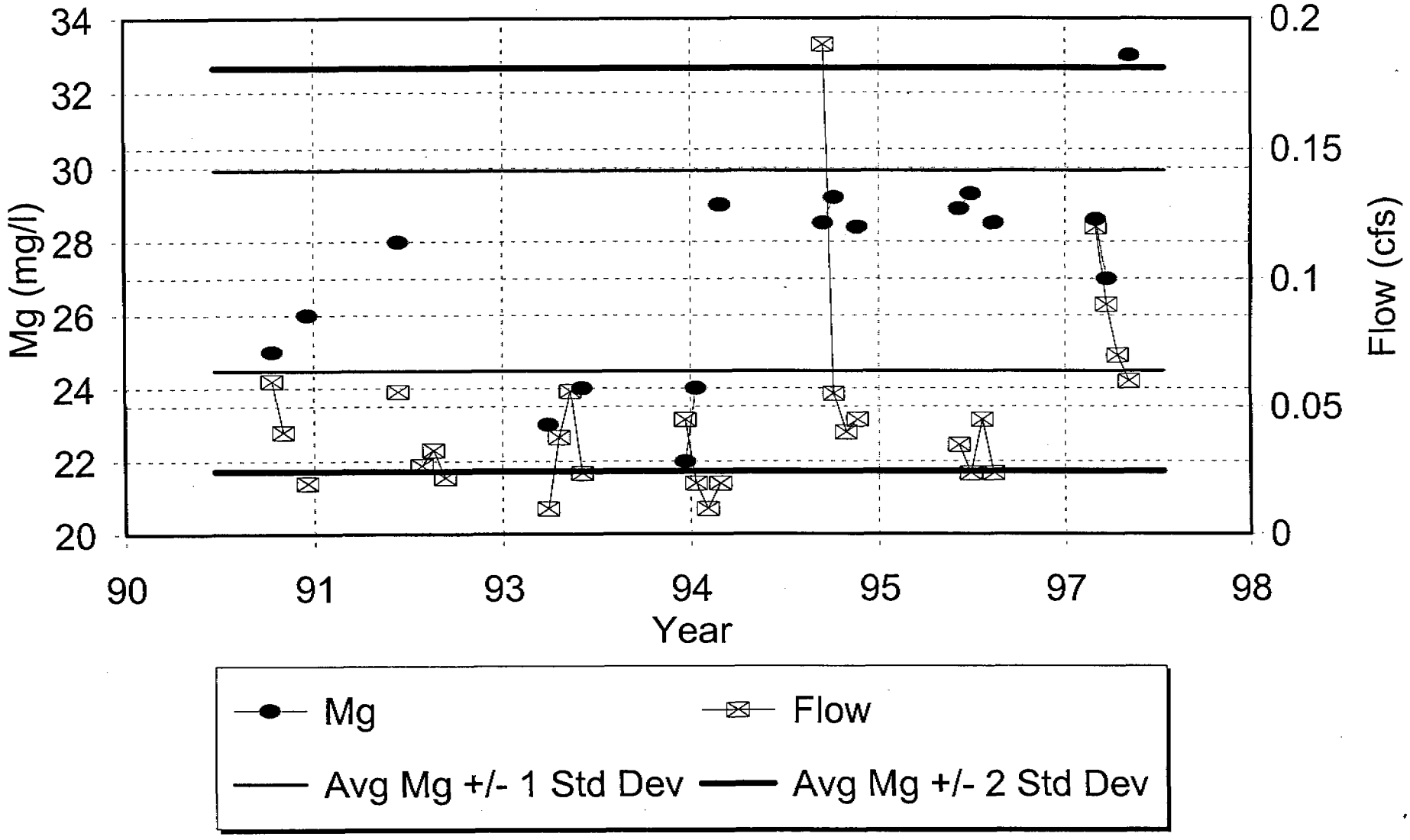
SO4 vs. Flow




Station 85261
HCO3 vs. Flow
HCO3 (mg/l)
340
320
300
280
260
240
220
200
Flow (cfs)
0.2
0.15
0.1
0.05
0
90
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

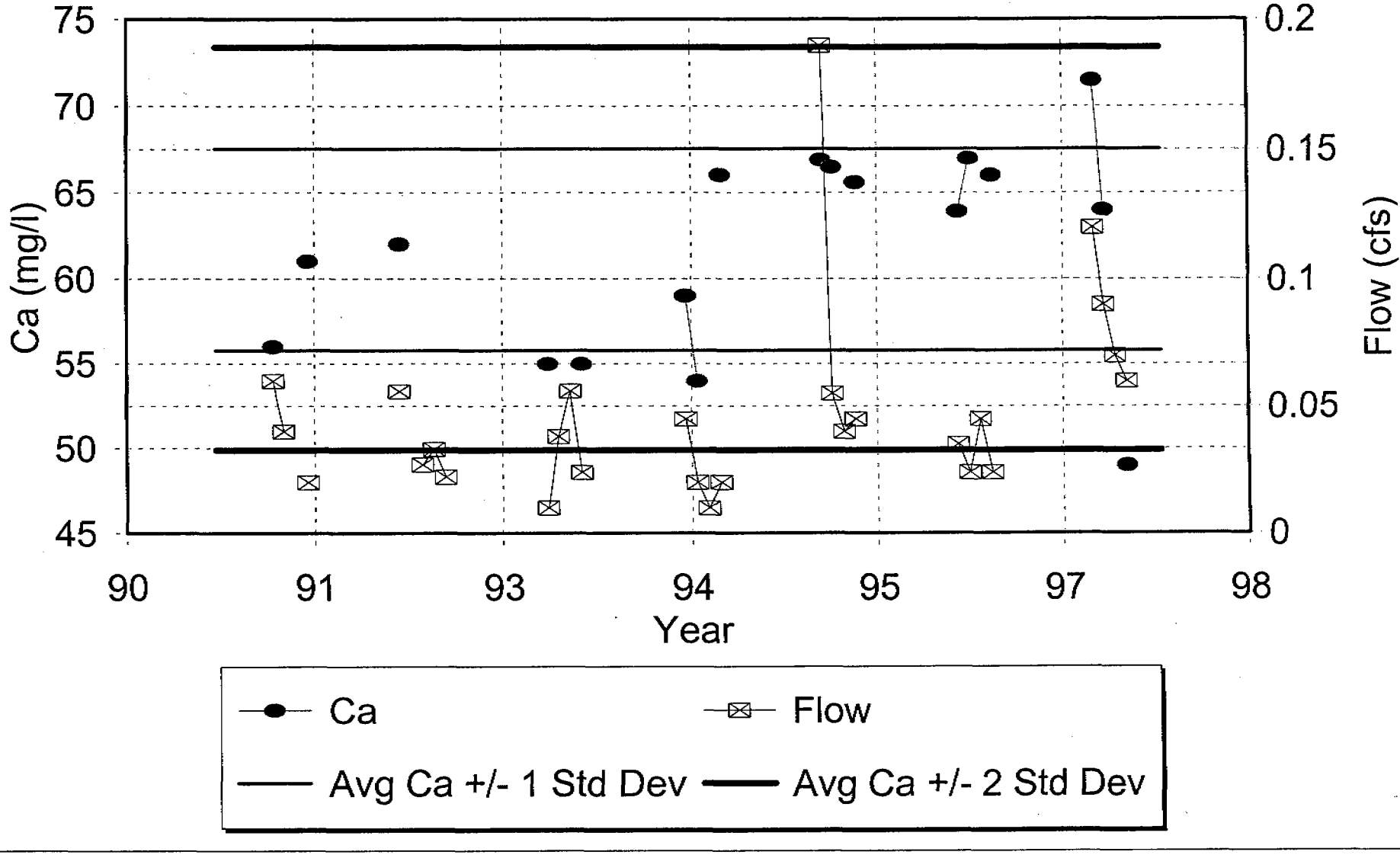
Station 85261

Mg vs. Flow



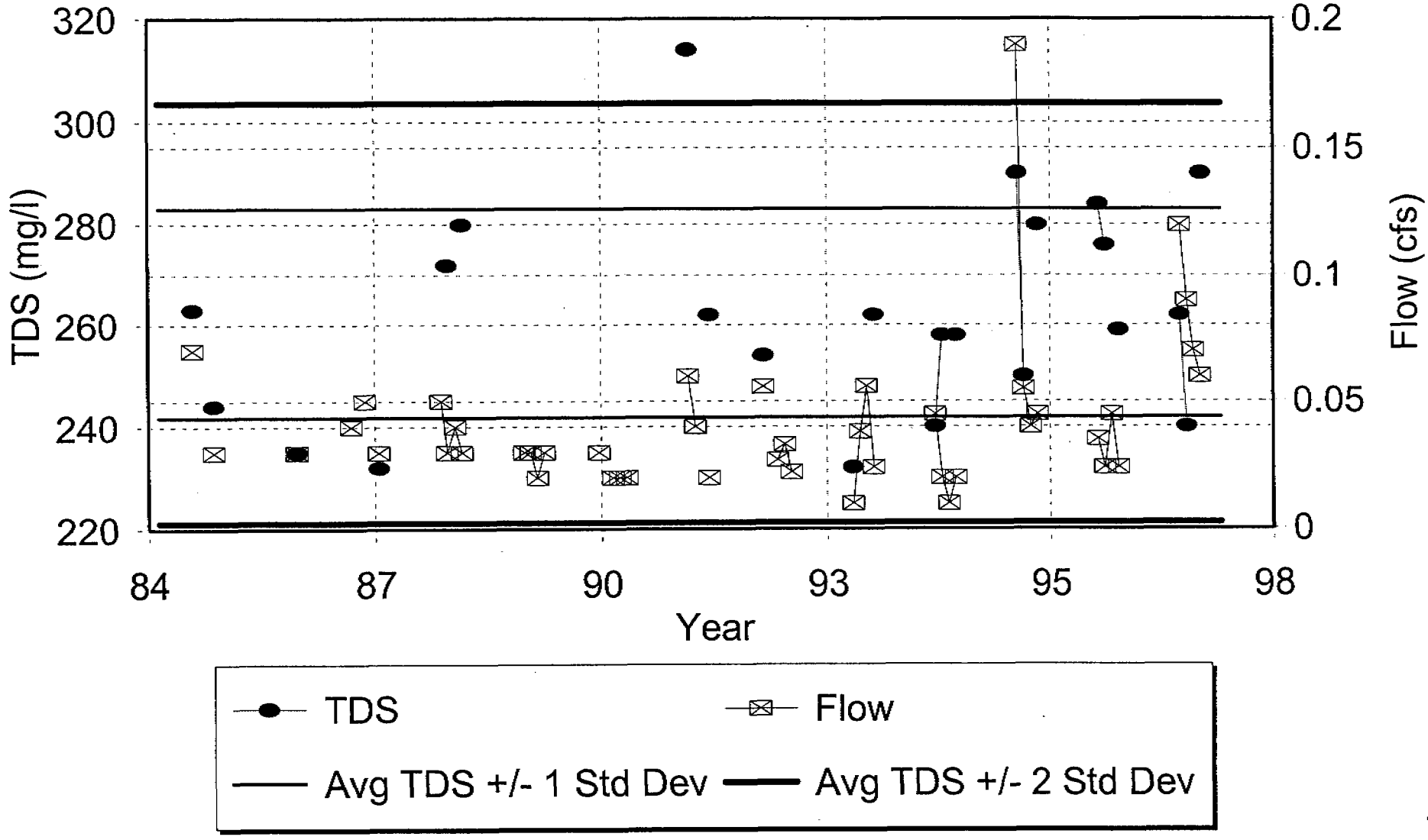
Station 85261

Ca vs. Flow



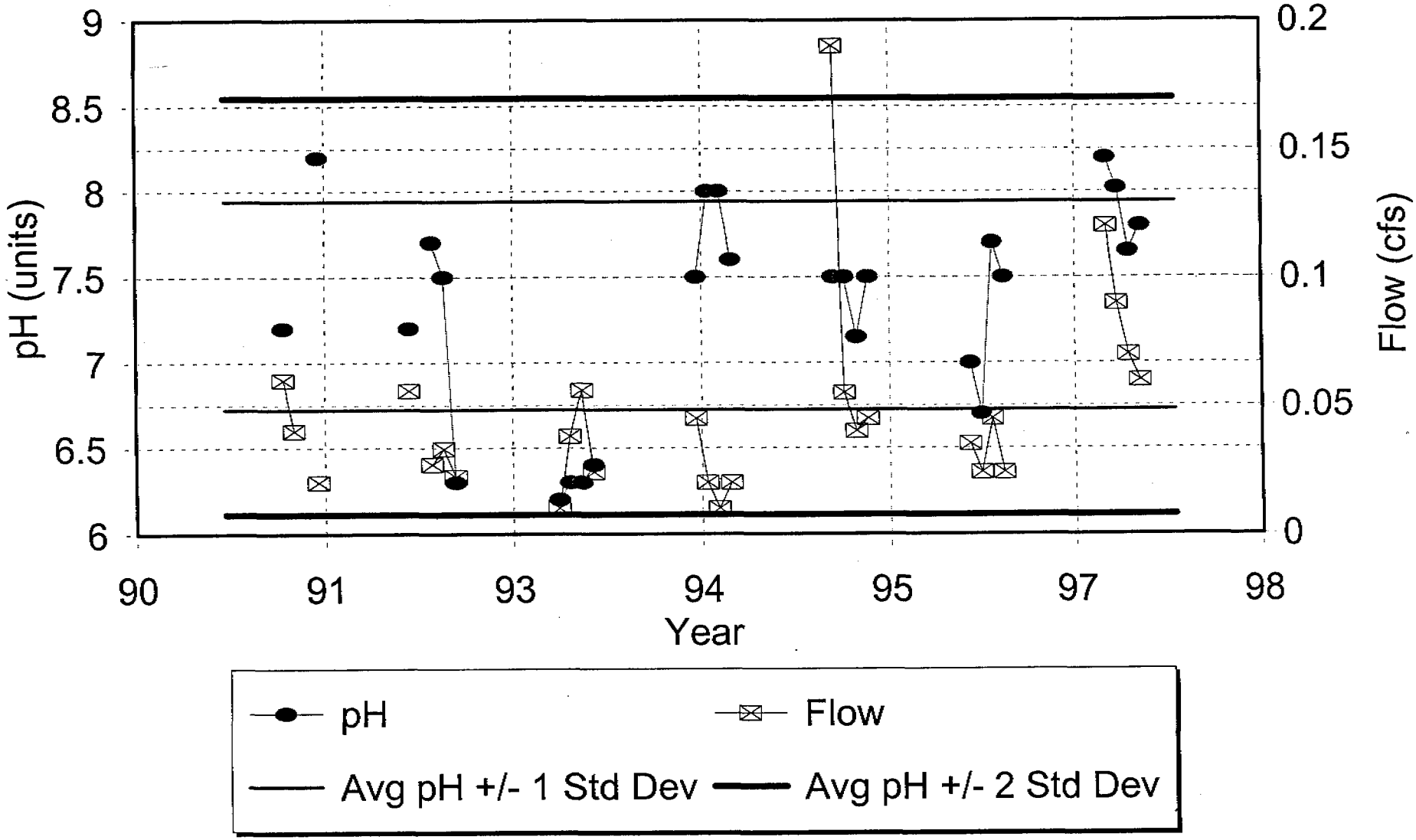
Station 85261

TDS vs. Flow



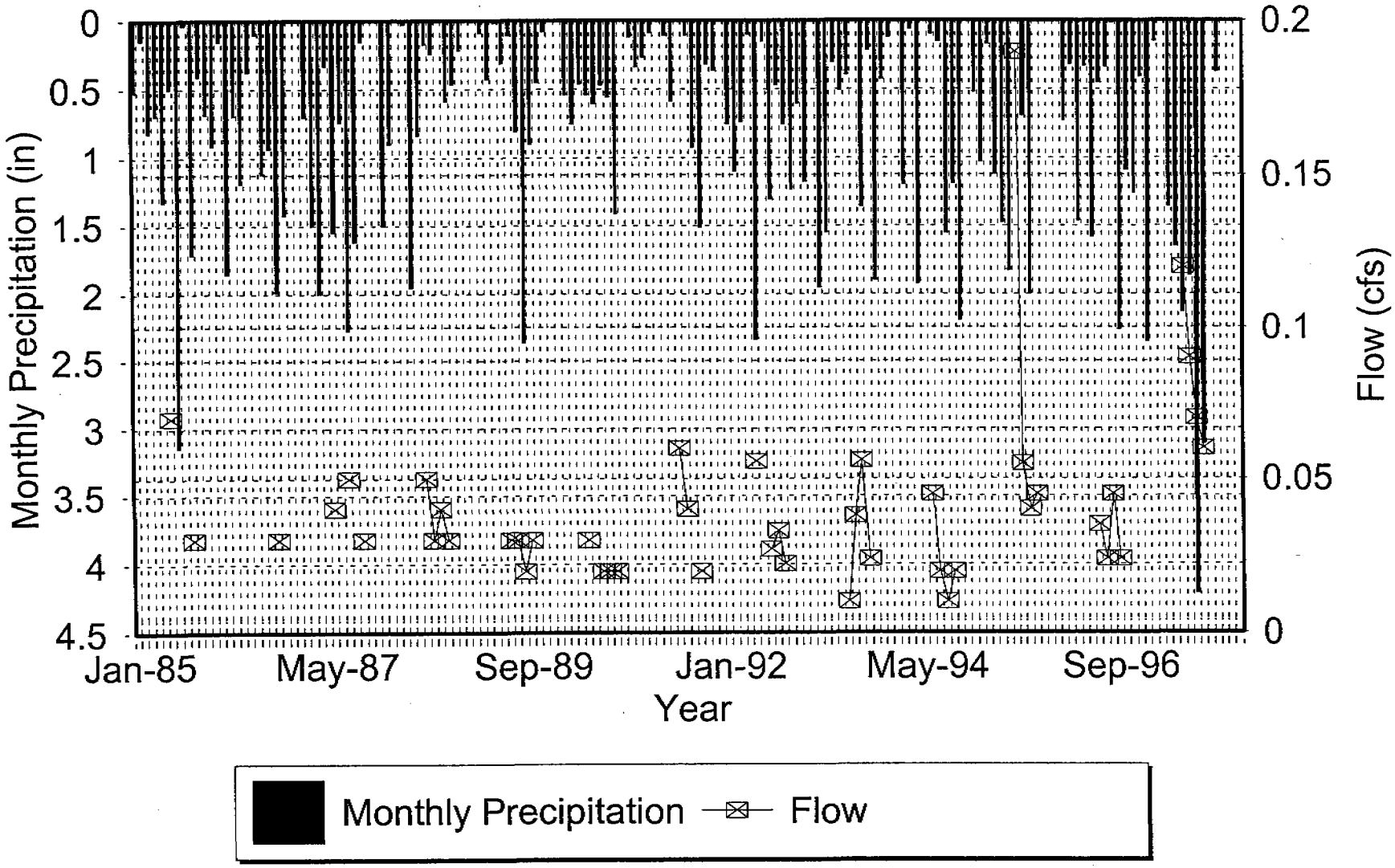
Station 85261

pH vs. Flow



Station 85261

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 65261 | Property: Star Point | Location: 250' N 1625' E of SW corn. Sec 26, T15S, R7e | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9400

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.12	8.2	511	7	262			296	242	2 <	3	10 <	71.5	28.6	0.7	2.8	8.3	0.01 <	0.02	0.005	
Jul-97	07/30/97	0.09	8.02	505	6.5	240			270	250	10 <	0.5 <	13	64	27	1.1	2.8	2.7	0.01 <	0.05	0.005	
Aug-97	08/13/97	0.07	7.65	498	6.5																	
Sep-97	09/16/97	0.06	7.8	461	6.5	290			260	240	10 <	1.5	10	49	33	2.2	3.3	3	0.01 <	0.35	0.008	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		45	26	26	26	23	0	0	17	17	17	17	17	17	17	17	17	9	17	17	16	
Minimum		0.01	6.2	320	4	232	ERR	ERR	232	240 <	0 <	0.5 <	2 <	49	22 <	0.6	2	-1.5 <	0.01 <	0.01 <	0.005	
Maximum		0.19	8.2	558	14.1	314	ERR	ERR	296	327 <	12 <	4 <	259 <	71.5	33 <	3	3.3	8.3 <	0.08 <	0.35 <	0.01	
Average		0.0418	7.3315	476.85	7.1231	262.48	ERR	ERR	264.41	271.29 <	3.1176 <	2 <	31.353 <	61.671	27.2 <	1.0765	2.7	3.2869 <	0.02 <	0.0759 <	0.0074	
Standard Deviation		0.0304	0.6085	51.414	2.3387	20.506	ERR	ERR	20.799	27.489 <	3.6788 <	0.8575 <	57.801 <	5.8774	2.7341 <	0.5936	0.4073	2.4306 <	0.0178 <	0.106 <	0.0024	
Avg. -1 Std. Dev.		0.0113	6.723	425.43	4.7844	241.87	ERR	ERR	243.61	243.81 <	-0.761 <	1.1425 <	-26.45 <	55.793	24.466 <	0.4828	2.2927	0.8583 <	0.0022 <	-0.03 <	0.005	
Avg. +1 Std. Dev.		0.0722	7.9401	528.26	9.4618	283.08	ERR	ERR	285.21	298.78 <	6.9964 <	2.8575 <	89.154 <	67.548	29.934 <	1.6701	3.1073	5.7195 <	0.0378 <	0.1819 <	0.0098	
Avg. -2 Std. Dev.		-0.019	6.1145	374.02	2.4457	221.27	ERR	ERR	222.81	216.32 <	-4.64 <	0.285 <	-84.25 <	49.916	21.732 <	-0.111	1.8854	-1.572 <	-0.016 <	-0.136 <	0.0025	
Avg. +2 Std. Dev.		0.1026	8.5486	579.67	11.8	303.69	ERR	ERR	306.01	326.27 <	10.875 <	3.715 <	146.95 <	73.425	32.668 <	2.2637	3.5146	8.15 <	0.0556 <	0.2879 <	0.0122	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 85261 | Property: Star Point | Location: 250' N 1625' E of SW com. Sec 26, T15S, R7e | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9400

Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0.06	7.2	510	4	314			243	259	12	3	21	56	25	1	2	<	0.02	0.05 <	0.01	
Jul-91	07/15/91	0.04																				
Aug-91																						
Sep-91	09/17/91	0.02	8.2	320	6	262			259	290	0	2	4	61	26 <	1	2		0.05	0.05 <	0.01	
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/20/92	0.0557	7.2	502	5.6	254			270	290	0	1	45	62	28	1	3	<	0.02	0.35		
Jun-92																						
Jul-92	07/15/92	0.027	7.7	486	5.5																	
Aug-92	08/26/92	0.033	7.5	469	6																	
Sep-92	09/21/92	0.0223	6.3	486	6.1																	
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/22/93	0.01	6.2	475	5.5	232			232	310	0	2	2	55	23 <	1	2	<	0.02	0.02 <	0.01	
Jul-93	07/26/93	0.038	6.3	456	5.7																	
Aug-93	08/18/93	0.056	6.3	456	5.8																	
Sep-93	09/27/93	0.024	6.4	428	7.3	262			236	300	0	2	15	55	24 <	1	3	<	0.02	0.16 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/08/94	0.045	7.5	554	4.5	240			238	311	0	2	15	59	22 <	1	2	<	0.02	0.03 <	0.01	CATIONS AND ANIONS F
Jul-94		0.02	8	456	14.1	258			233	283	7	2	14	54	24	3	3	<	0.02	0.05 <	0.01	
Aug-94	08/31/94	0.01	8	403	11.4																	RAIN IN A.M. = ~.10". LO
Sep-94		0.02	7.6	436	11.7	258			258	327	0	2	15	66	29 <	1	3		0.08	0.07 <	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	0.19	7.5	549	6.5	290			284	245 <	2	1	30	66.9	28.5	0.8	2.9	2.4 <	0.01	0.01 <	0.005	
Jul-95	07/26/95	0.055	7.5	505	6	250			286	255 <	2	3	10	66.5	29.2	0.6	2.9	4.2	0.01	0.02 <	0.005	
Aug-95	08/23/95	0.04	7.15	450	7																	
Sep-95	09/27/95	0.045	7.5	534	10	280			281	243 <	2	4	20	65.6	28.4	0.9	2.8	3.3 <	0.01	0.03 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/11/96	0.035	7	513	6	284			279	261	2 <	1	30	63.9	28.9	0.6	2.8	-1.5	0.01 <	0.01 <	0.005	
Jul-96	07/24/96	0.024	6.7	443	6	276			268	257	2 <	2	20	67	29.3	0.7	2.8	2.4	0.01 <	0.01 <	0.005	
Aug-96	08/19/96	0.045	7.7	414	10																	
Sep-96	09/30/96	0.024	7.5	558	8	259			282	249	2 <	2	259	66	28.5	0.7	2.8	4.8	0.01 <	0.01 <	0.005	
Oct-96																						
Nov-96																						
Dec-96																						

Cyprus Plateau Mining Company - Water Quality Data

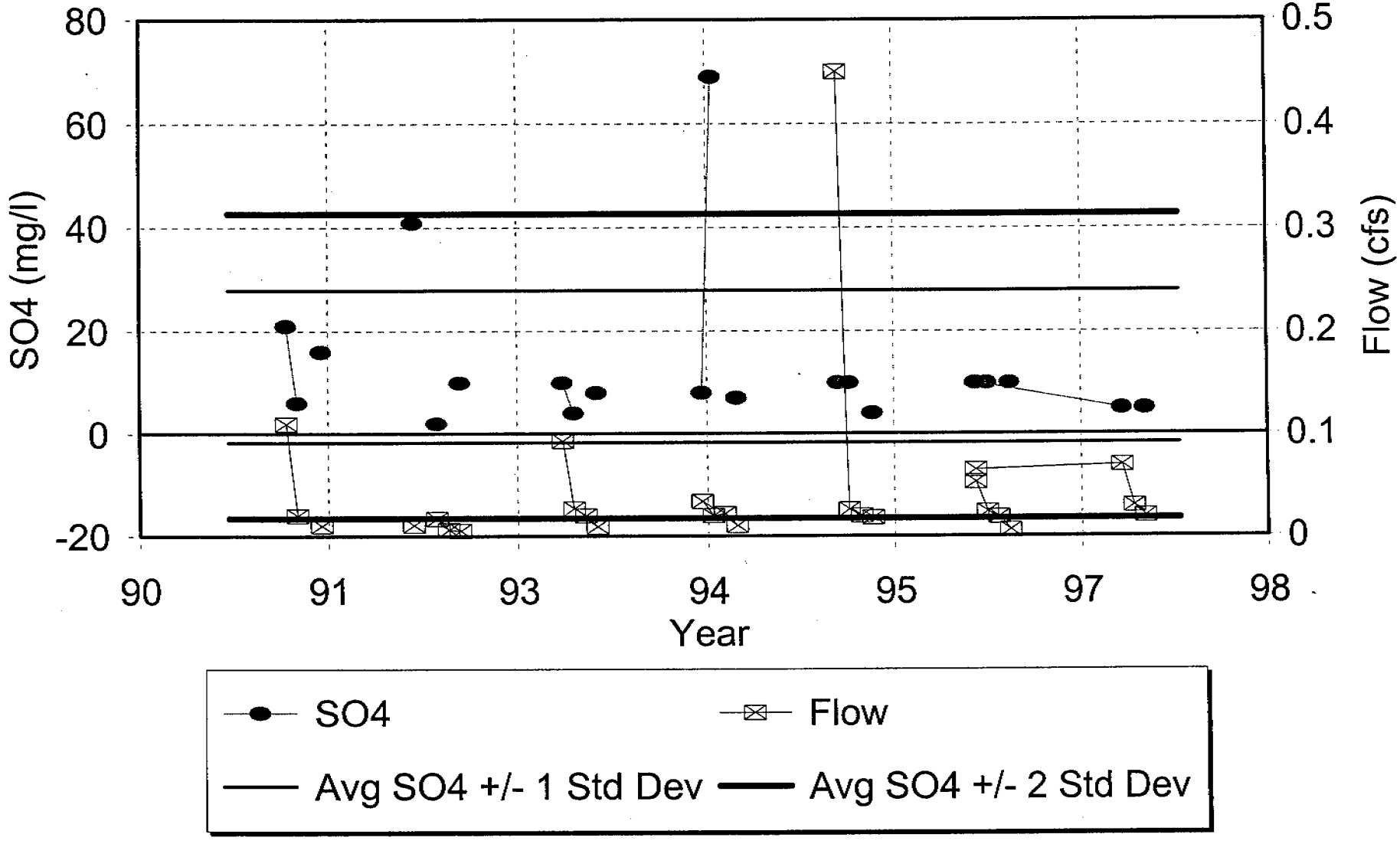
Print Date: February 27, 1998

Station: 85261 | Property: Star Point | Location: 250' N 1625' E of SW com. Sec 26, T15S, R7e | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9400

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/12/85	0.07				263																
Jul-85																						
Aug-85																						
Sep-85	09/24/85	0.03				244																
Oct-85																						
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86																						
Sep-86	09/30/86	0.03				235																
Oct-86																						
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87	05/22/87	0.04																				
Jun-87																						
Jul-87	07/16/87	0.05																				
Aug-87																						
Sep-87	09/22/87	0.03				232																
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/02/88	0.05																				
Jul-88	07/16/88	0.03				272																
Aug-88	08/19/88	0.04																				
Sep-88	09/10/88	0.03				280																
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0.03																				
Jul-89	07/11/89	0.03																				
Aug-89	08/22/89	0.02																				
Sep-89	09/14/89	0.03																				
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.03																				
Jun-90																						
Jul-90	07/06/90	0.02																				
Aug-90	08/22/90	0.02																				
Sep-90	09/24/90	0.02																				
Oct-90																						
Nov-90																						
Dec-90																						

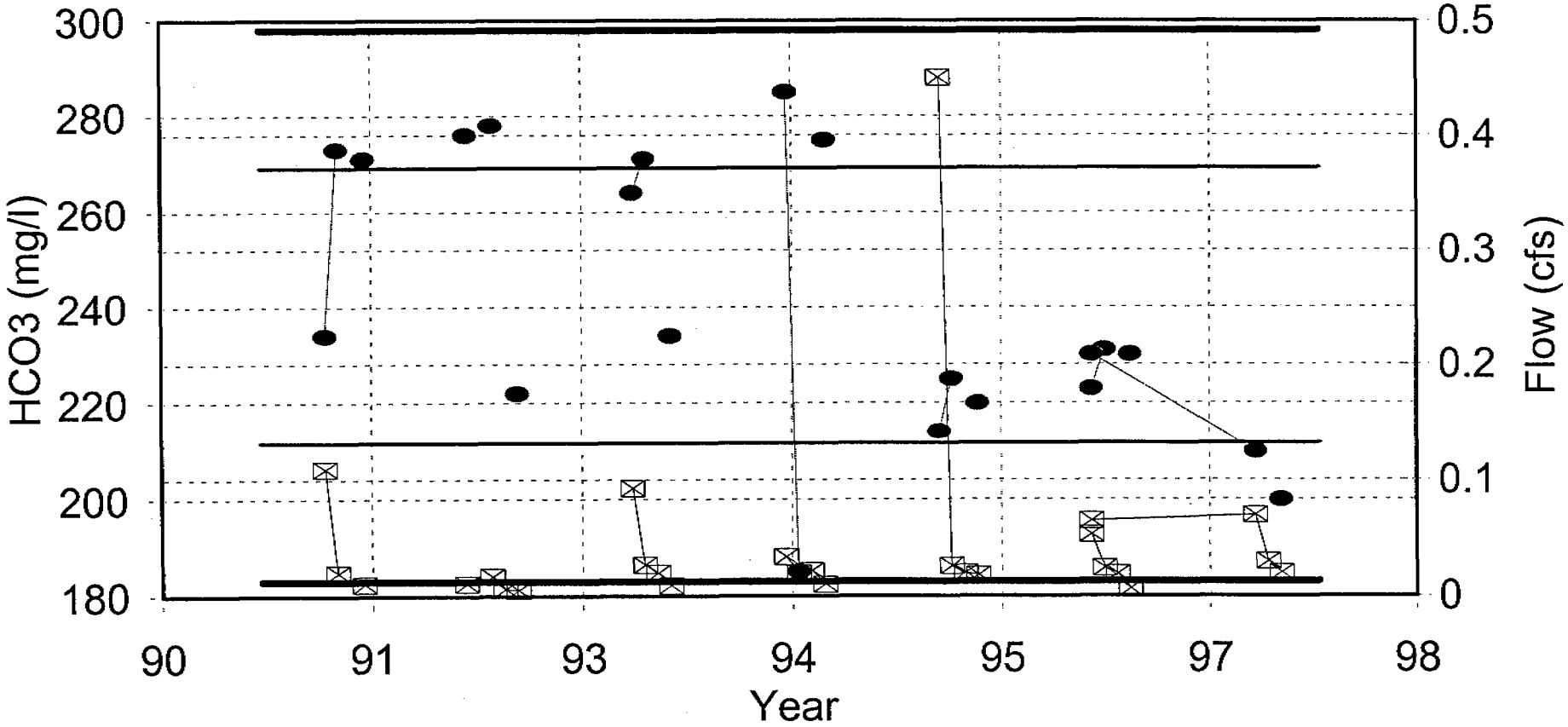
Station 978

SO4 vs. Flow



Station 978

HCO3 vs. Flow

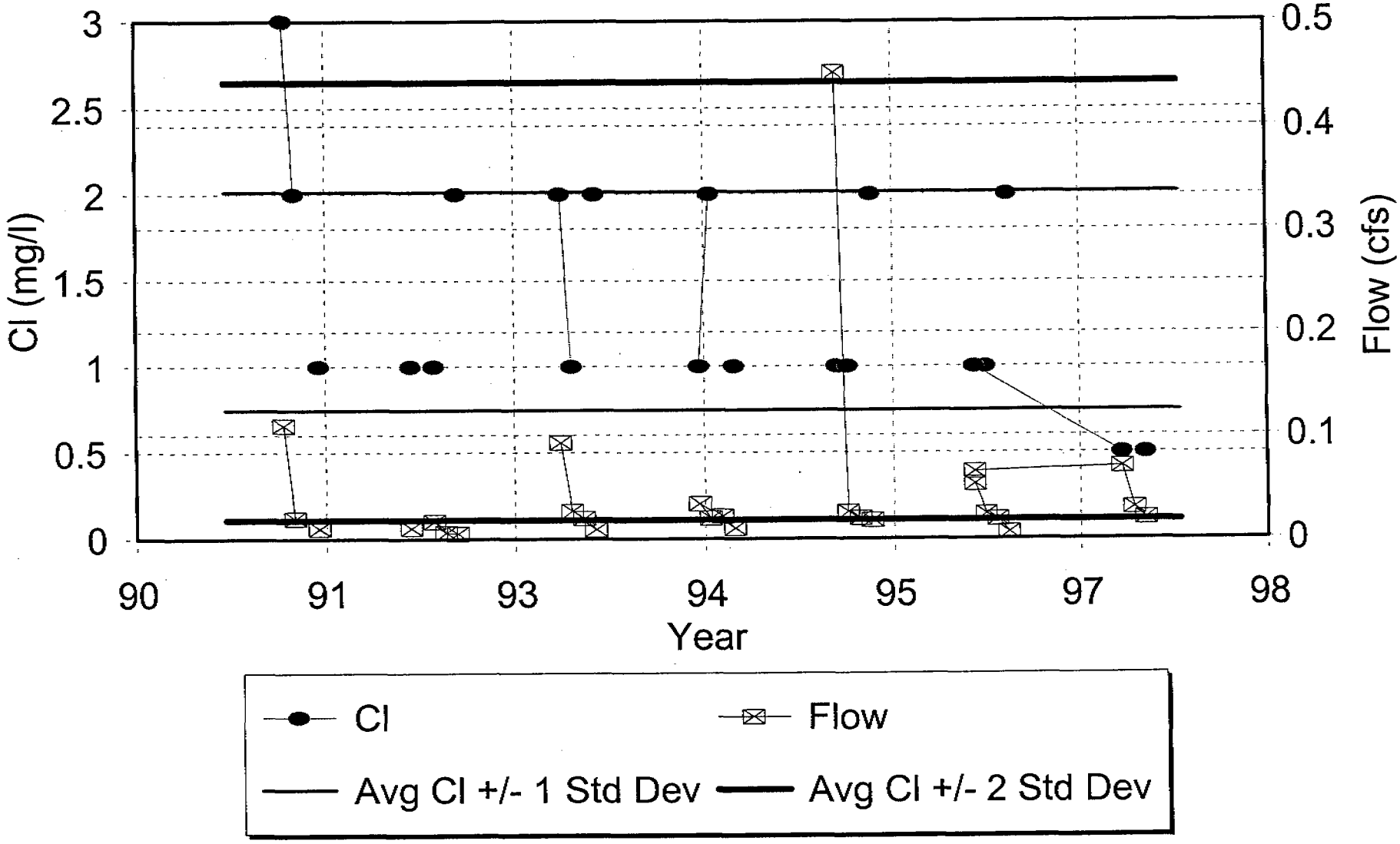


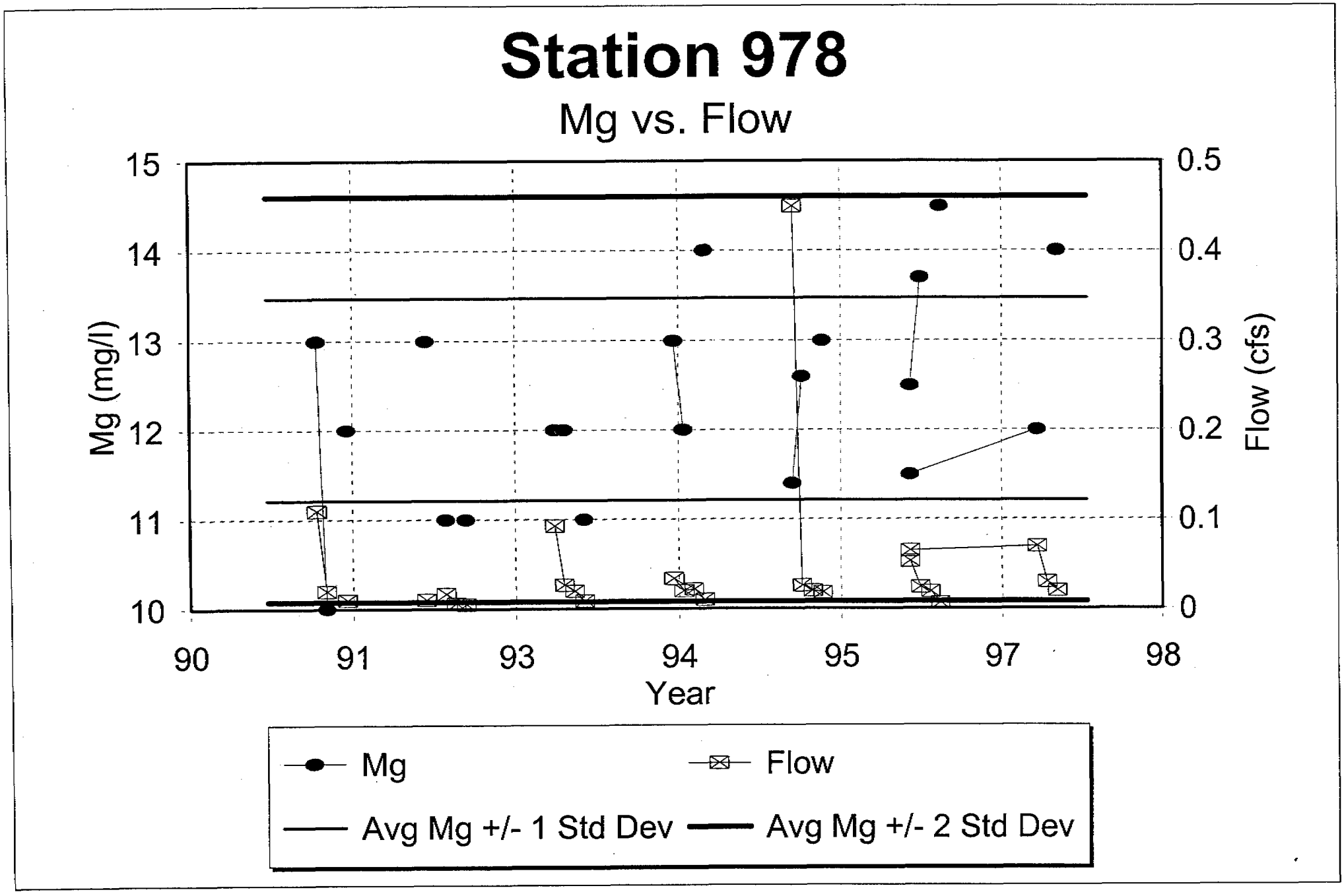
HCO3 — Flow

Avg HCO3 +/- 1 Std Dev — Avg HCO3 +/- 2 Std Dev

Station 978

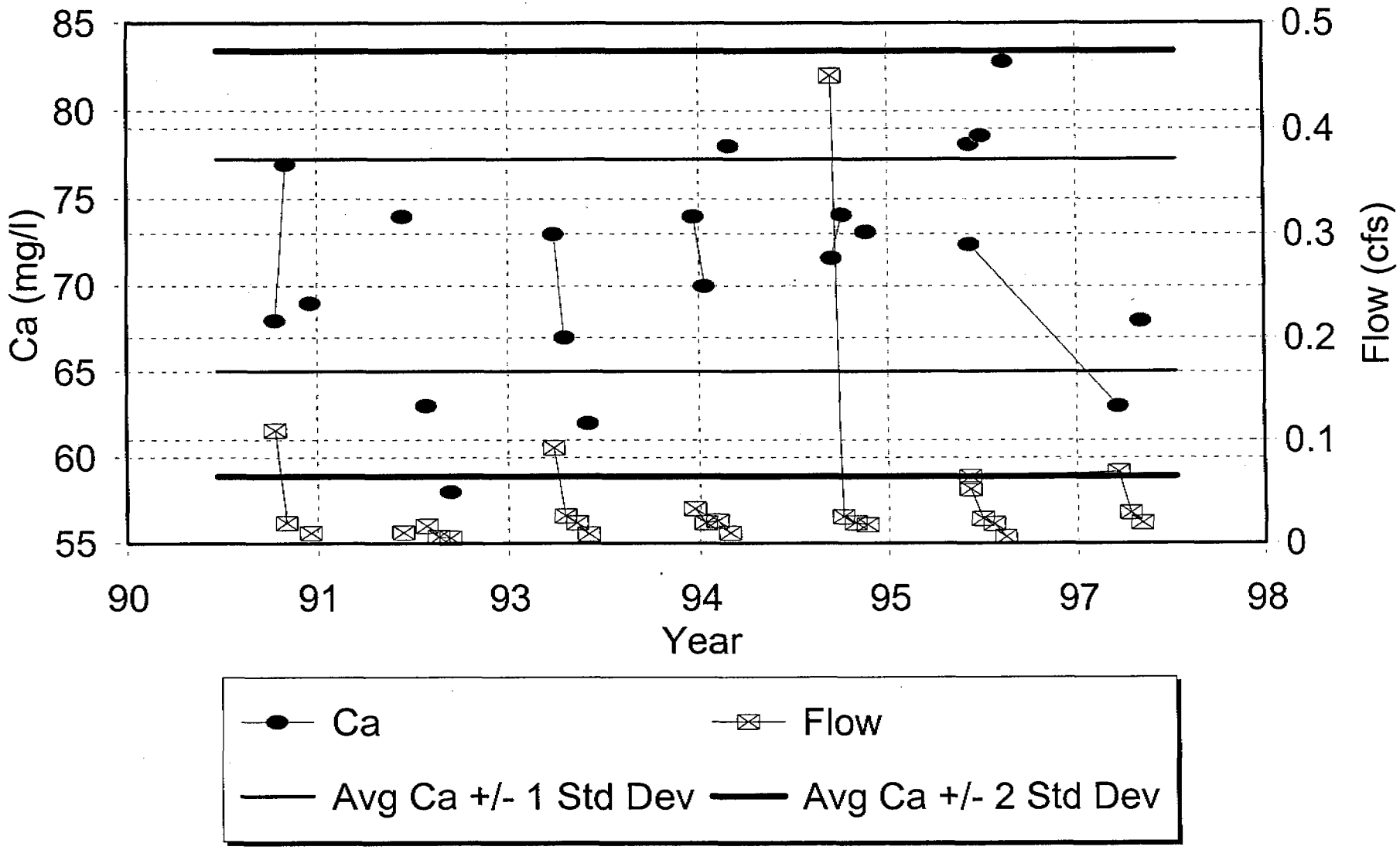
Cl vs. Flow

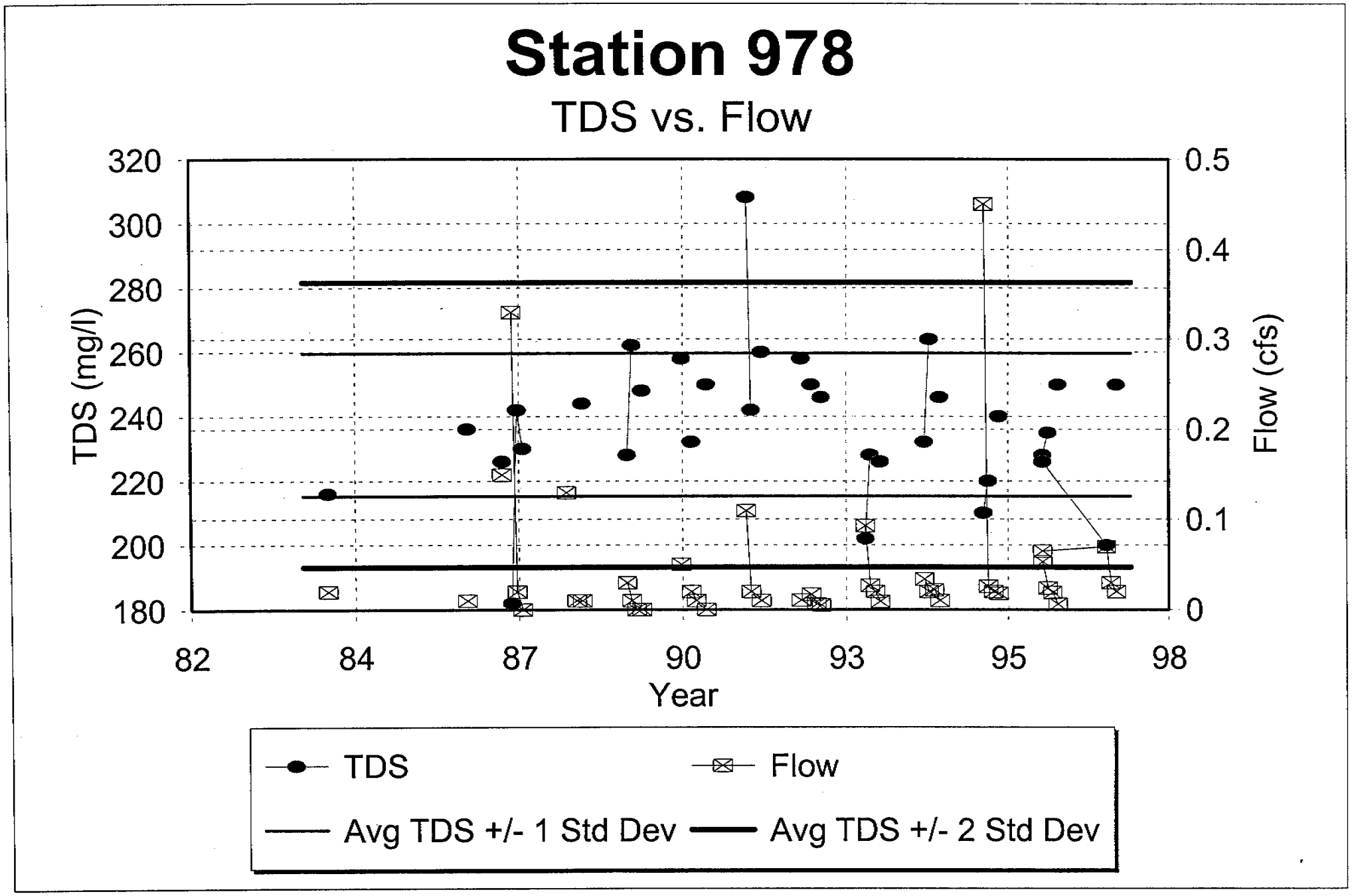



Station 978
Mg vs. Flow
Mg (mg/l)
15
14
13
12
11
10
0.5
0.4
0.3
0.2
0.1
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

Station 978

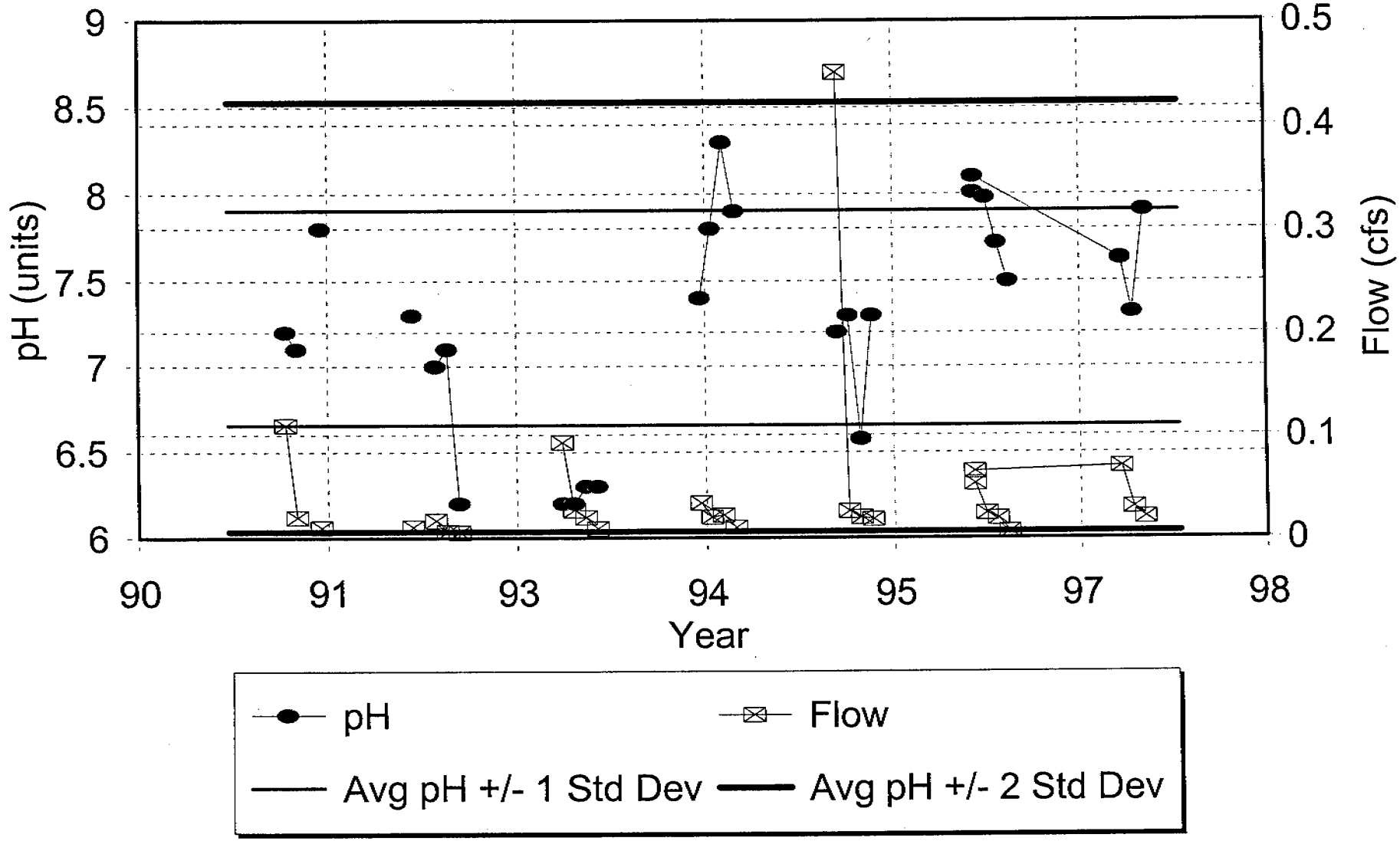
Ca vs. Flow




Station 978
TDS vs. Flow
TDS (mg/l)
320
300
280
260
240
220
200
180
Flow (cfs)
0.5
0.4
0.3
0.2
0.1
0
82
84
87
90
93
95
98
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

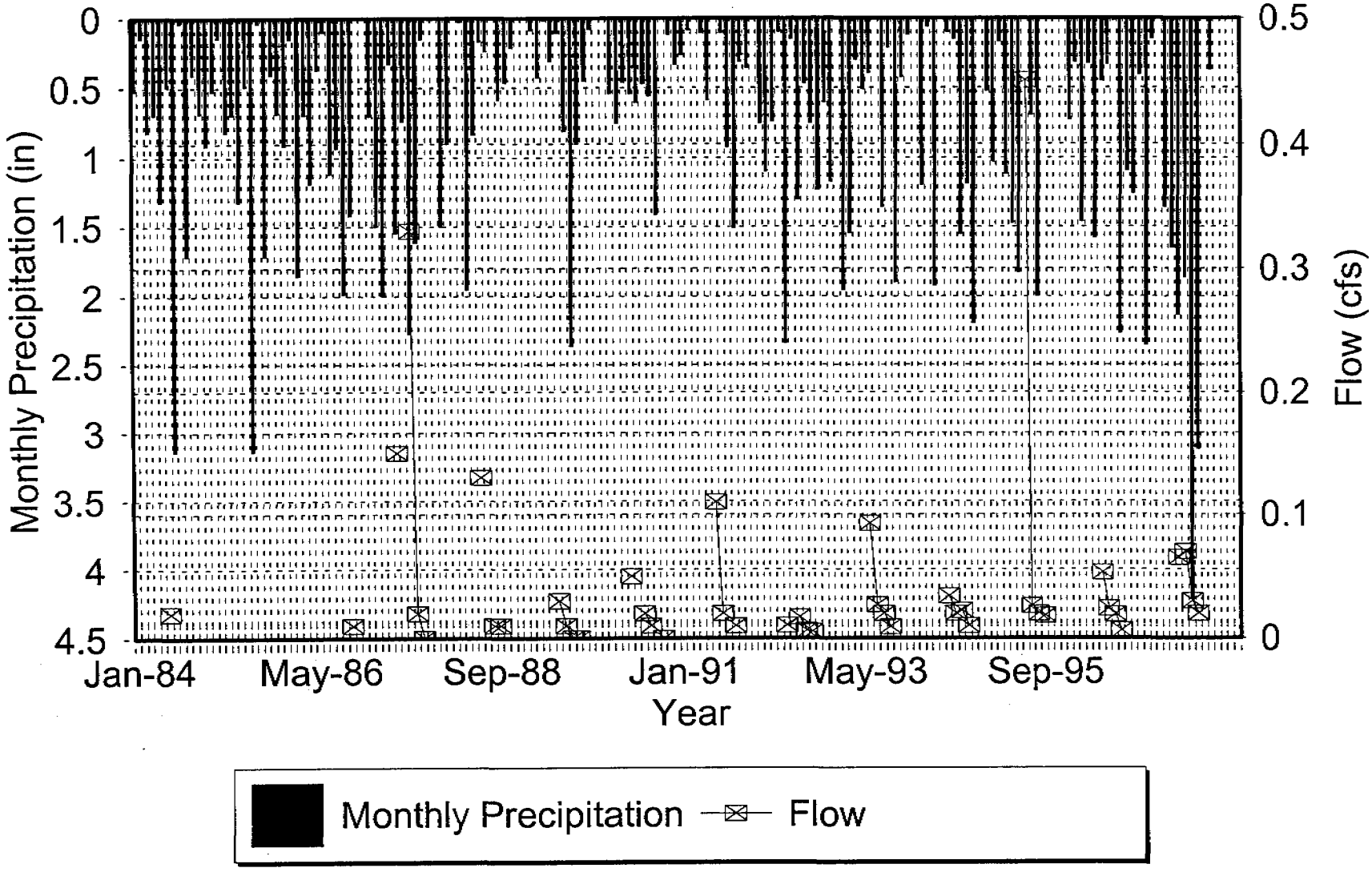
Station 978

pH vs. Flow



Station 978

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 27, 1998

Station: 978 | Property: Star Point | Location: 2500' N 1375' W of SE com. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9925

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/12/96	0.053	8.01	544	5	228			247	223	2 <	1	10 <	78.1	12.5	0.5	2.3	5.8	0.01 <	0.02	0.005	
Jul-96	07/23/96	0.024	7.98	398	8	235			253	231	2 <	1	10 <	78.6	13.7	0.7	2.3	5.3	0.01 <	0.02	0.005	
Aug-96	08/19/96	0.019	7.72	360	7																	
Sep-96	09/30/96	0.006	7.5	473	6	250			267	230	2 <	2	10 <	82.8	14.5	0.8	2	5.5	0.01 <	0.01 <	0.005	
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-96	06/17/97	0.065	8.1	420	5.5	226			228	230	2 <	1	10 <	72.4	11.5	0.5	2.2	0.5	0.01 <	0.01 <	0.005	
Jul-97	07/30/97	0.07	7.63	425	5	200			210	210	10 <	0.5 <	5 <	63	12	1.9	2	0.78	0.01 <	0.35	0.045	
Aug-97	08/13/97	0.03	7.32	404	5.5																	
Sep-97	09/16/97	0.02	7.91	472	8	250			230	200	10 <	0.5 <	5 <	68	14	1.1	2	7.6	0.01 <	0.14	0.005	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
	Count	44	27	27	27	34	0	0	21	21	21	21	21	21	21	21	21	9	21	21	18	
	Minimum	0	6.2	44	3	182	ERR	ERR	190	185 <	0 <	0.5 <	2 <	58	10 <	0.5	1.9	0.5 <	0.01 <	0.01 <	0.005	
	Maximum	0.45	8.3	544	13.9	308	ERR	ERR	267	285 <	10 <	3 <	69 <	82.8	14.5 <	1.9	6	7.6 <	0.32 <	3.98 <	0.045	
	Average	0.0458	7.2833	409.07	6.6741	237.5	ERR	ERR	228.9	240.52 <	2.4286 <	1.381 <	13.143 <	71.176	12.343 <	0.9238	2.4333	3.8089 <	0.0324 <	0.2467 <	0.0097	
	Standard Deviation	0.0832	0.6238	95.794	2.8255	22.131	ERR	ERR	18.055	26.754 <	3.4719 <	0.6344 <	14.817 <	6.1222	1.1316 <	0.2893	0.9357	2.3671 <	0.0648 <	0.8406 <	0.0089	
	Avg. -1 Std. Dev.	-0.037	6.6596	313.28	3.8486	215.37	ERR	ERR	210.85	211.77 <	-1.043 <	0.7465 <	-1.674 <	65.054	11.211 <	0.6345	1.4976	1.4418 <	-0.032 <	-0.594 <	0.0008	
	Avg. +1 Std. Dev.	0.129	7.9071	504.87	9.4996	259.63	ERR	ERR	246.96	269.28 <	5.9005 <	2.0154 <	27.96 <	77.298	13.474 <	1.2132	3.369	6.176 <	0.0972 <	1.0872 <	0.0186	
	Avg. -2 Std. Dev.	-0.121	6.0358	217.49	1.0231	193.24	ERR	ERR	192.79	183.01 <	-4.515 <	0.1121 <	-16.49 <	56.932	10.08 <	0.3451	0.5619	-0.925 <	-0.097 <	-1.434 <	-0.008	
	Avg. +2 Std. Dev.	0.2121	8.5309	600.66	12.325	281.76	ERR	ERR	265.02	298.03 <	9.3725 <	2.6496 <	42.777 <	83.421	14.606 <	1.5025	4.3048	8.5431 <	0.162 <	1.9278 <	0.0275	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Station: 978 | Property: Star Point | Location: 2500' N 1375' W of SE com. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9925

Print Date: February 27, 1998

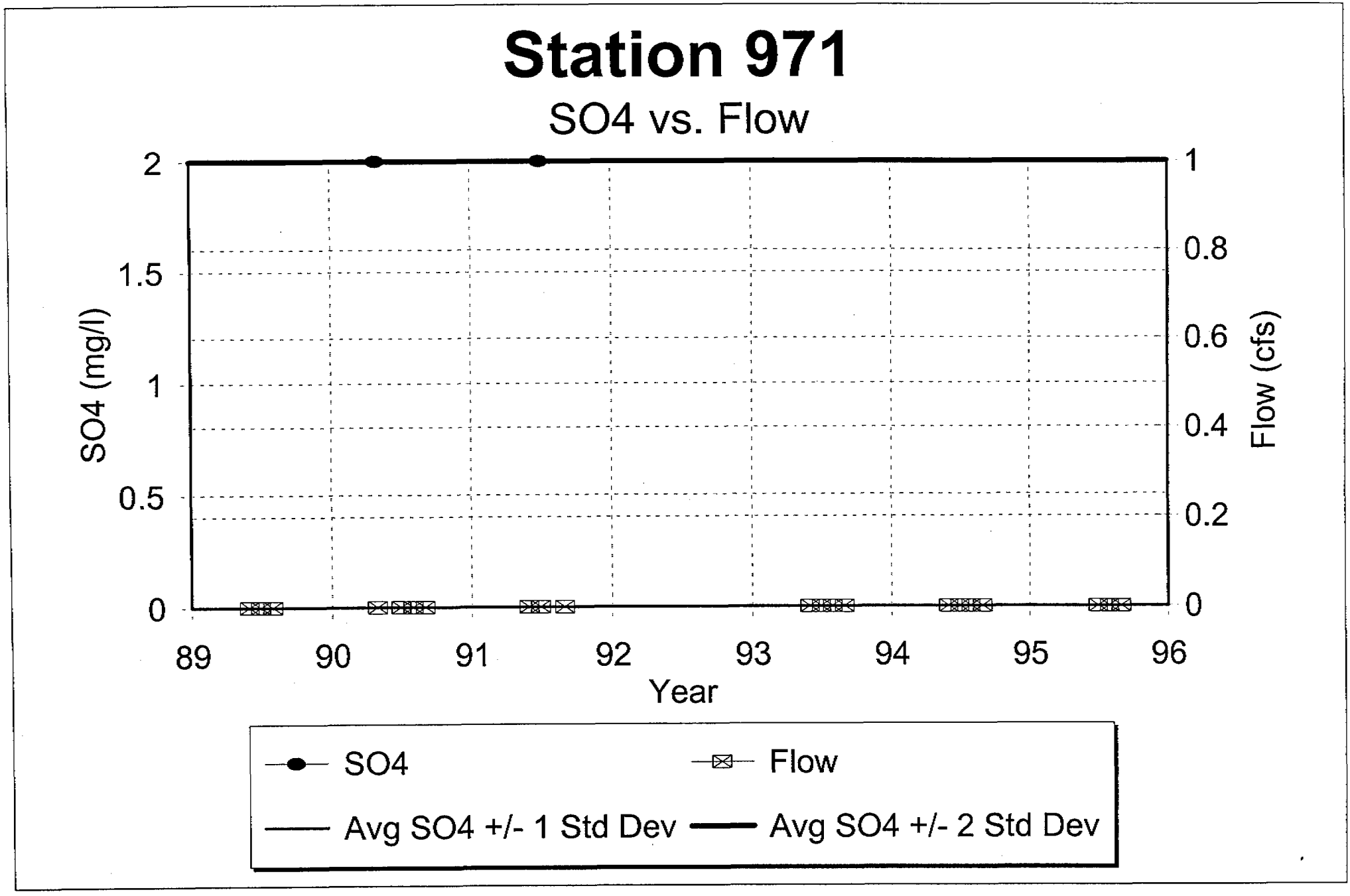
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.05				258																
Jun-90																						
Jul-90	07/02/90	0.02				232																
Aug-90	08/30/90	0.01																				
Sep-90																						
Oct-90	10/03/90	0				250																
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0.11	7.2	510	3	308			223	234	10	3	21	68	13 <	1	6	<	0.02 <	0.02 <	0.01	
Jul-91	07/16/91	0.02	7.1	440	6	242			234	273	0	2	6	77	10 <	1	3	<	0.02 <	0.02 <	0.01	
Aug-91																						
Sep-91	09/18/91	0.01	7.8	460	8	260			222	271	0	1	16	69	12 <	1	4		0.03	0.05 <	0.01	
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/19/92	0.0105	7.3	478	4.7	258			238	276	0	1	41	74	13	1	2	<	0.02 <	0.02		
Jun-92																						
Jul-92	07/15/92	0.017	7	44	5.9	250			203	278	0	1	2	.63	11 <	1	2	<	0.02 <	0.02		
Aug-92	08/25/92	0.006	7.1	357	13.3																	
Sep-92	09/21/92	0.005	6.2	443	3.8	246			190	222	0	2	10	58	11	1	2		0.03	3.98		
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/24/93	0.093	6.2	377	5.5	202			232	264	0	2	10	73	12 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0.027	6.2	415	5.4	228			217	271	0	1	4	67	12 <	1	2	<	0.02 <	0.02 <	0.01	
Aug-93	08/17/93	0.02	6.3	400	5.7																	
Sep-93	09/28/93	0.009	6.3	413	6.4	226			200	234	0	2	8	62	11 <	1	2	<	0.02	0.03 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/20/94	0.034	7.4	484	3.7	232			238	285	0	1	8	74	13 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-94	07/19/94	0.02	7.8	412	13.9	264			224	185	7	2	69	70	12	1	3	<	0.02	0.05 <	0.01	
Aug-94	08/31/94	0.022	8.3	258	11.2																	RAIN IN A.M. = ~.10". LO
Sep-94	09/21/94	0.01	7.9	496	12.7	246			252	275	0	1	7	78	14 <	1	2		0.32	0.35	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.45	7.2	442	5	210			226	214 <	2	1 <	10	71.6	11.4	0.5	2.3	3.6	0.04 <	0.01 <	0.005	
Jul-95	07/26/95	0.026	7.3	472	5	220			237	225 <	2	1	10	74.1	12.6	0.7	2.1	1.2 <	0.01 <	0.01 <	0.005	
Aug-95	08/23/95	0.02	6.58	360	5																	Calibrated ph meter
Sep-95	09/26/95	0.016	7.3	268	6	240			236	220 <	2	2 <	4	73.1	13	0.7	1.9	4 <	0.01 <	0.01 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						

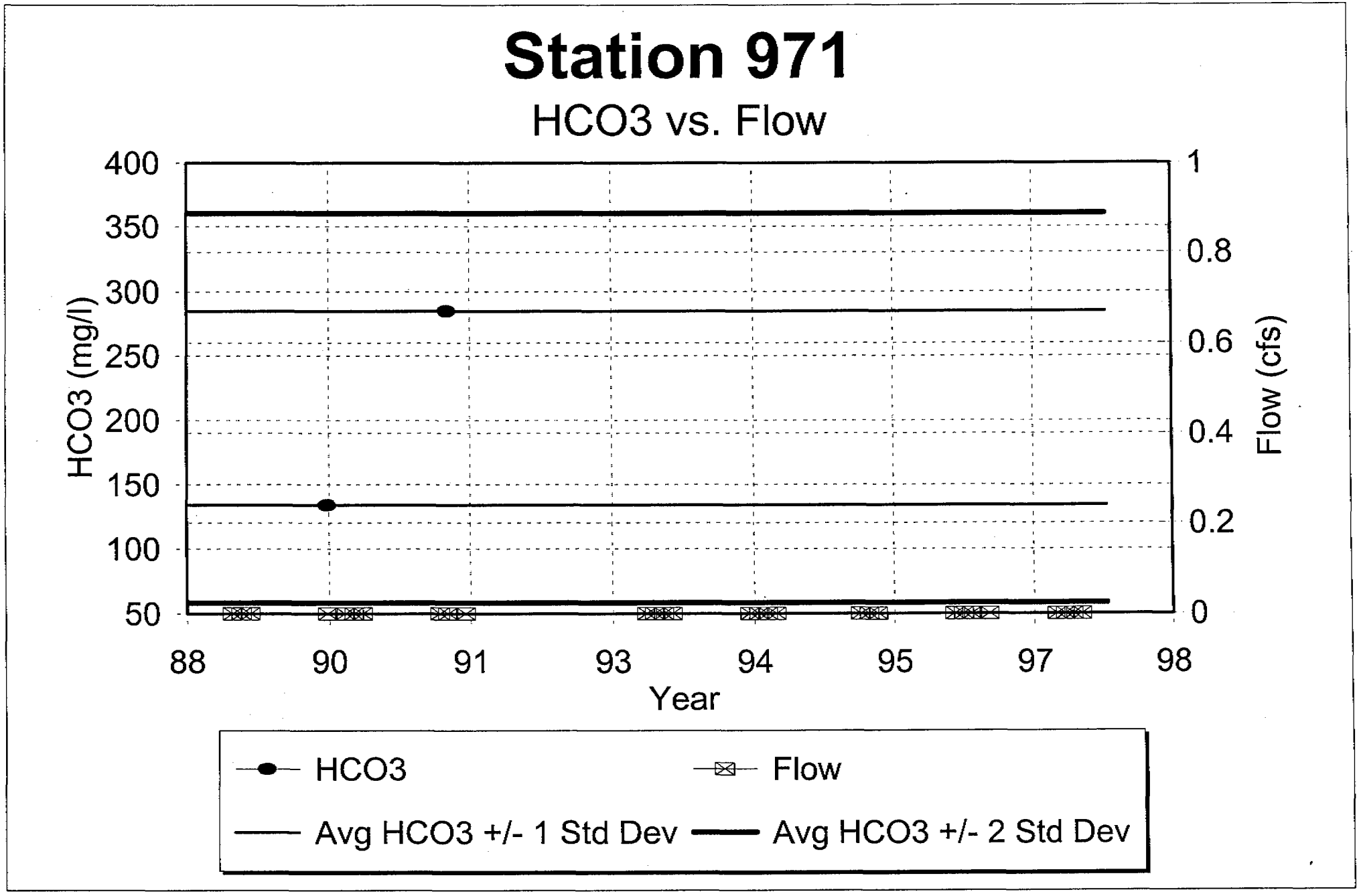
Cyprus Plateau Mining Company - Water Quality Data

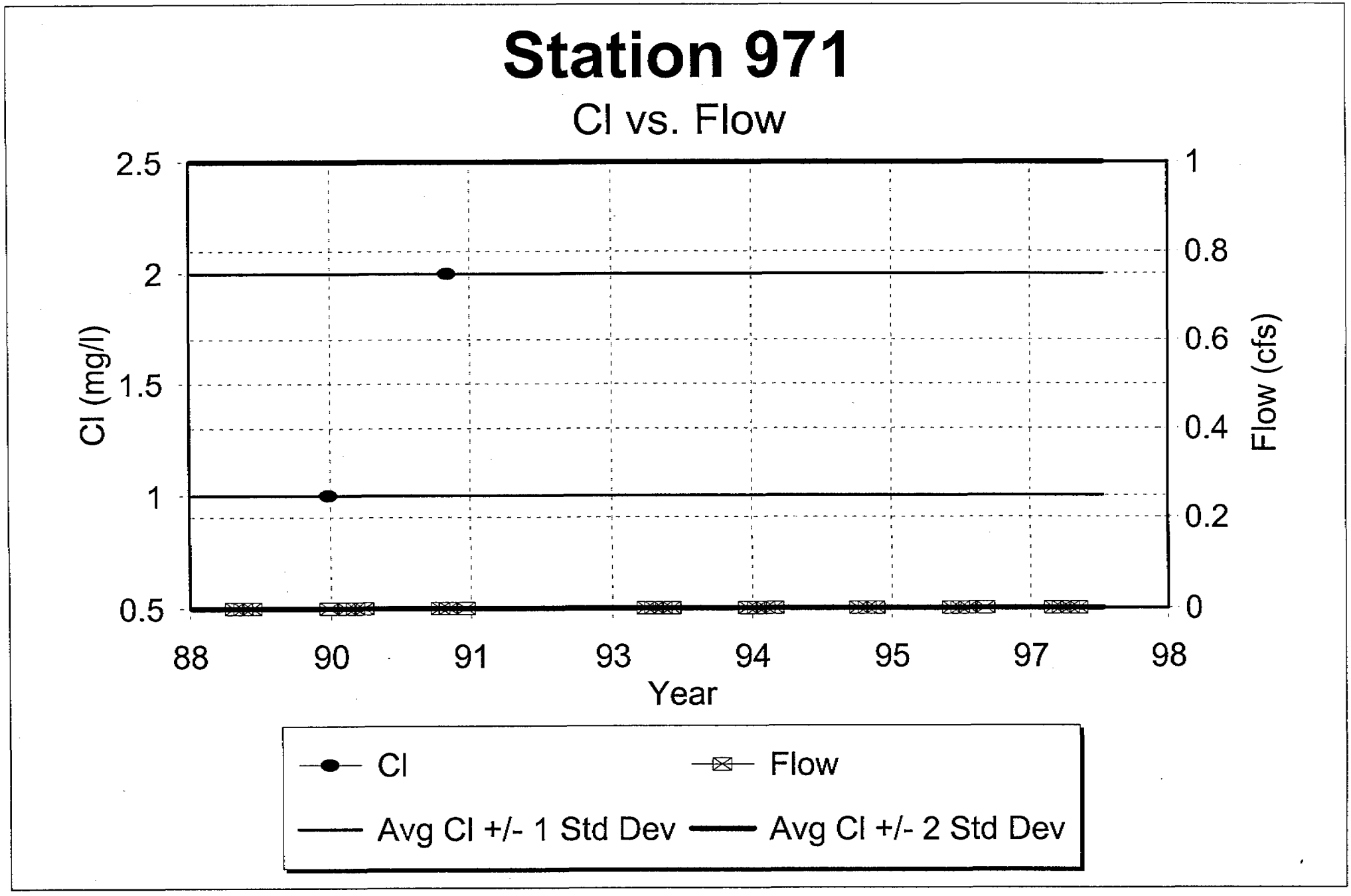
Print Date: February 27, 1998

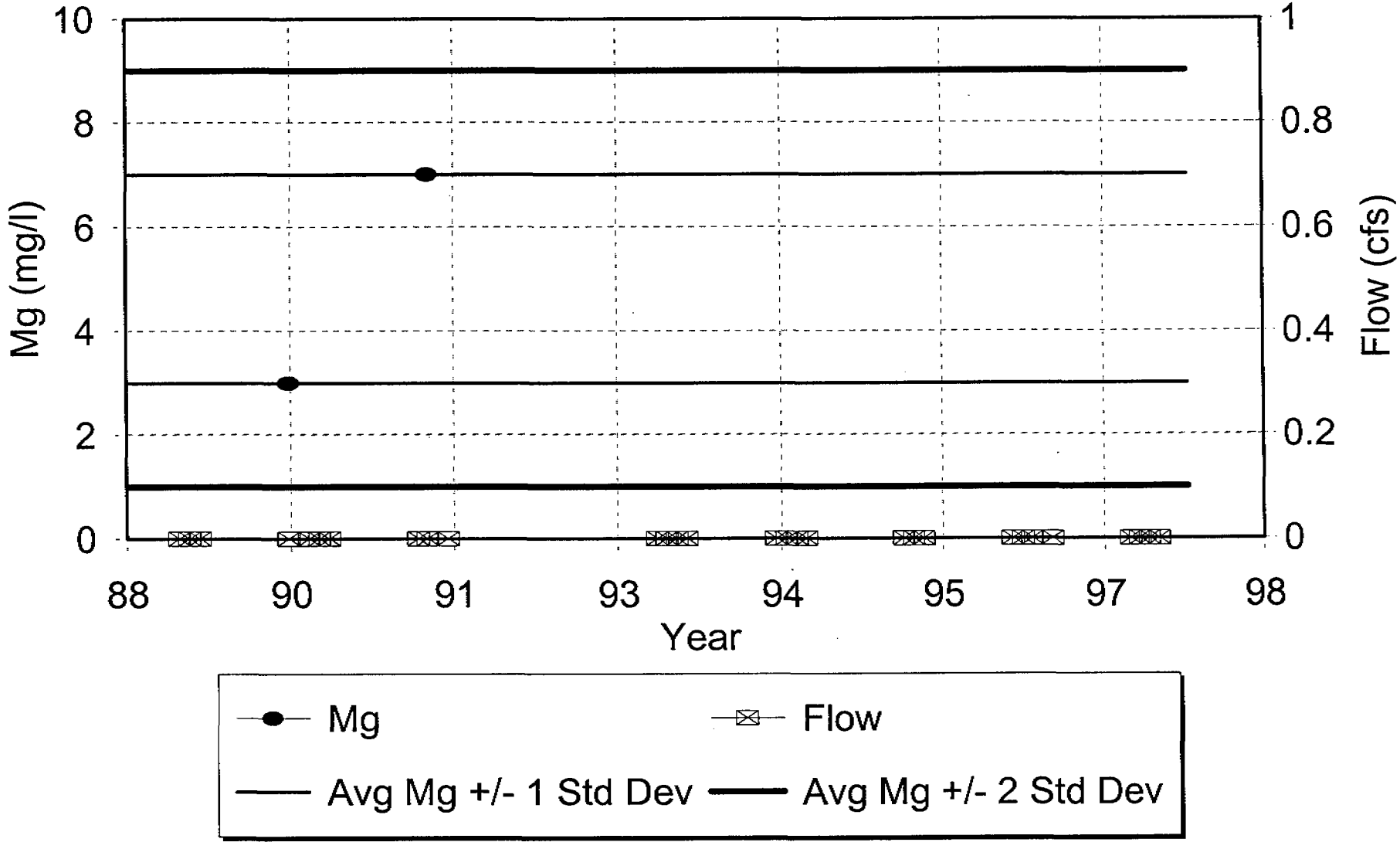
Station: 978 | Property: Star Point | Location: 2500' N 1375' W of SE corn. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9925

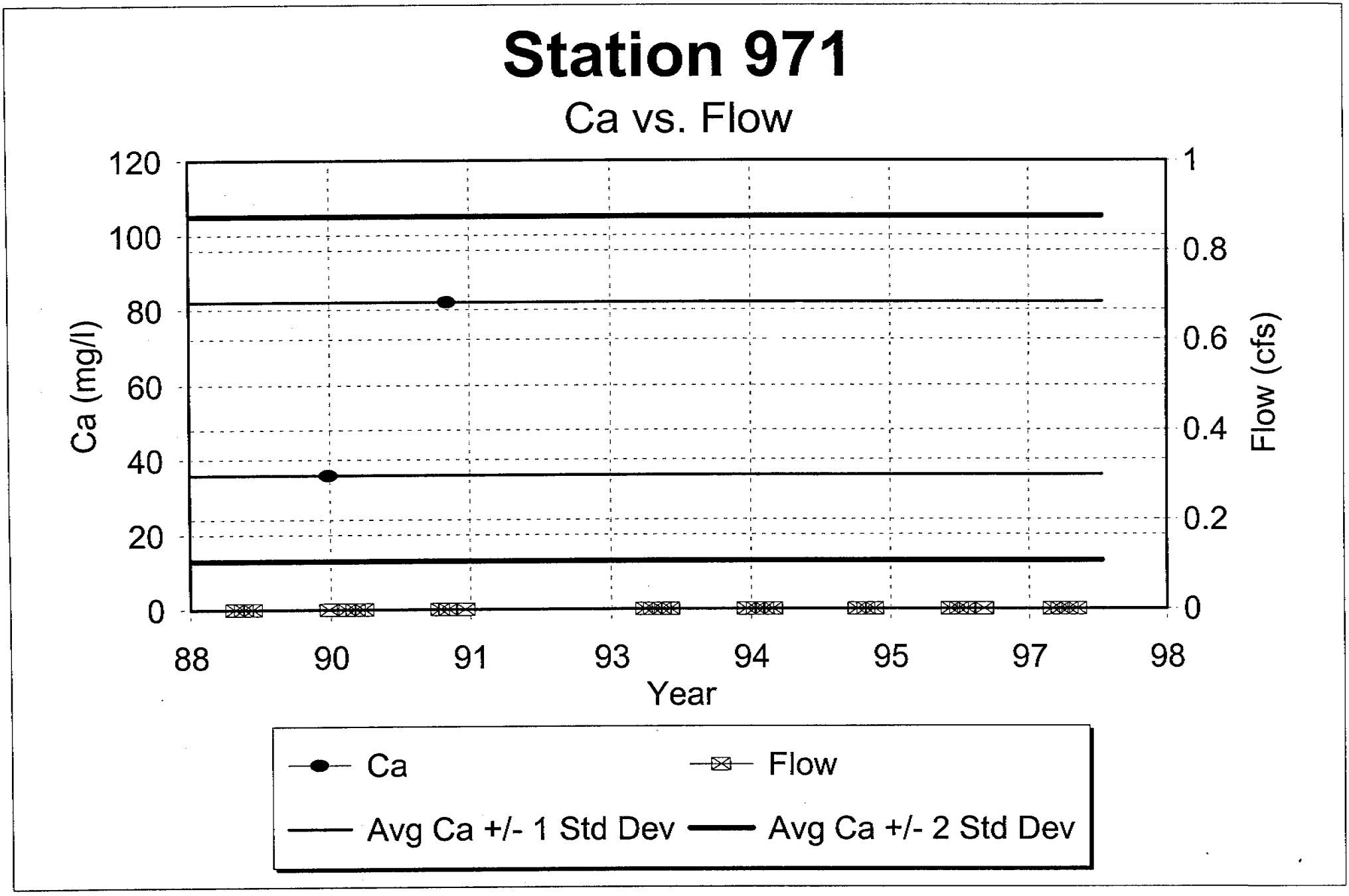
Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-84																							
Feb-84																							
Mar-84																							
Apr-84																							
May-84																							
Jun-84	06/22/84	0.02				216																	
Jul-84																							
Aug-84																							
Sep-84																							
Oct-84																							
Nov-84																							
Dec-84																							
Jan-85																							
Feb-85																							
Mar-85																							
Apr-85																							
May-85																							
Jun-85																							
Jul-85																							
Aug-85																							
Sep-85																							
Oct-85																							
Nov-85																							
Dec-85																							
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86																							
Jun-86																							
Jul-86																							
Aug-86																							
Sep-86																							
Oct-86	10/10/86	0.01				236																	
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87	05/19/87	0.15				226																	
Jun-87																							
Jul-87	07/20/87	0.33				182																	
Aug-87	08/12/87	0.02				242																	
Sep-87	09/22/87	0				230																	
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/01/88	0.13																					
Jul-88																							
Aug-88	08/19/88	0.01																					
Sep-88	9/88/5	0.01				244																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/06/89	0.03				228																	
Jul-89	07/11/89	0.01				262																	
Aug-89	08/22/89	0																					
Sep-89	09/15/89	0				248																	
Oct-89																							
Nov-89																							
Dec-89																							


Station 971
SO4 vs. Flow
SO4 (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
1
0.8
0.6
0.4
0.2
0
89
90
91
92
93
94
95
96
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev


Station 971
HCO3 vs. Flow
400
350
300
250
200
150
100
50
HCO3 (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
88
90
91
93
94
95
97
98
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

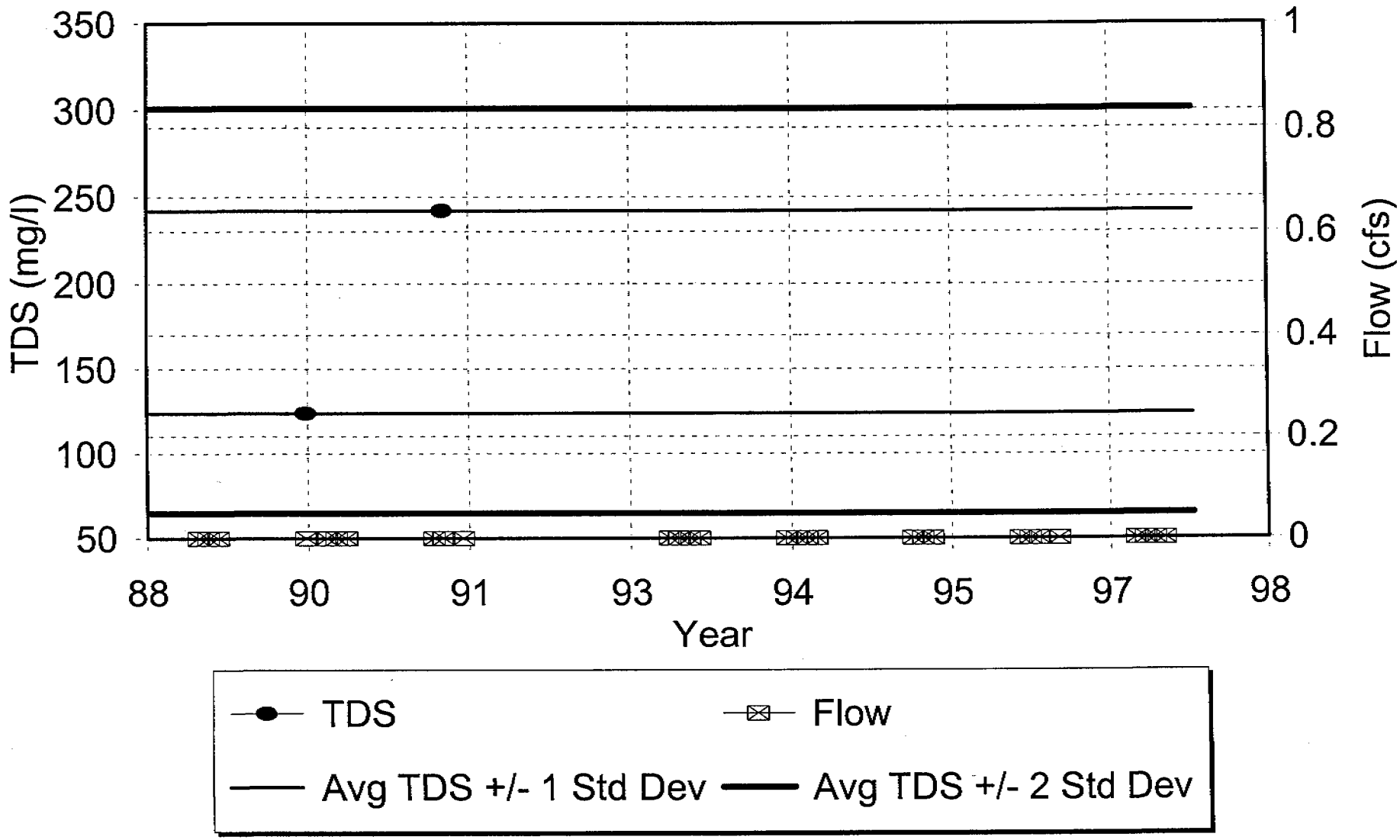

Station 971
Cl vs. Flow
Cl (mg/l)
2.5
2
1.5
1
0.5
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
88
90
91
93
94
95
97
98
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

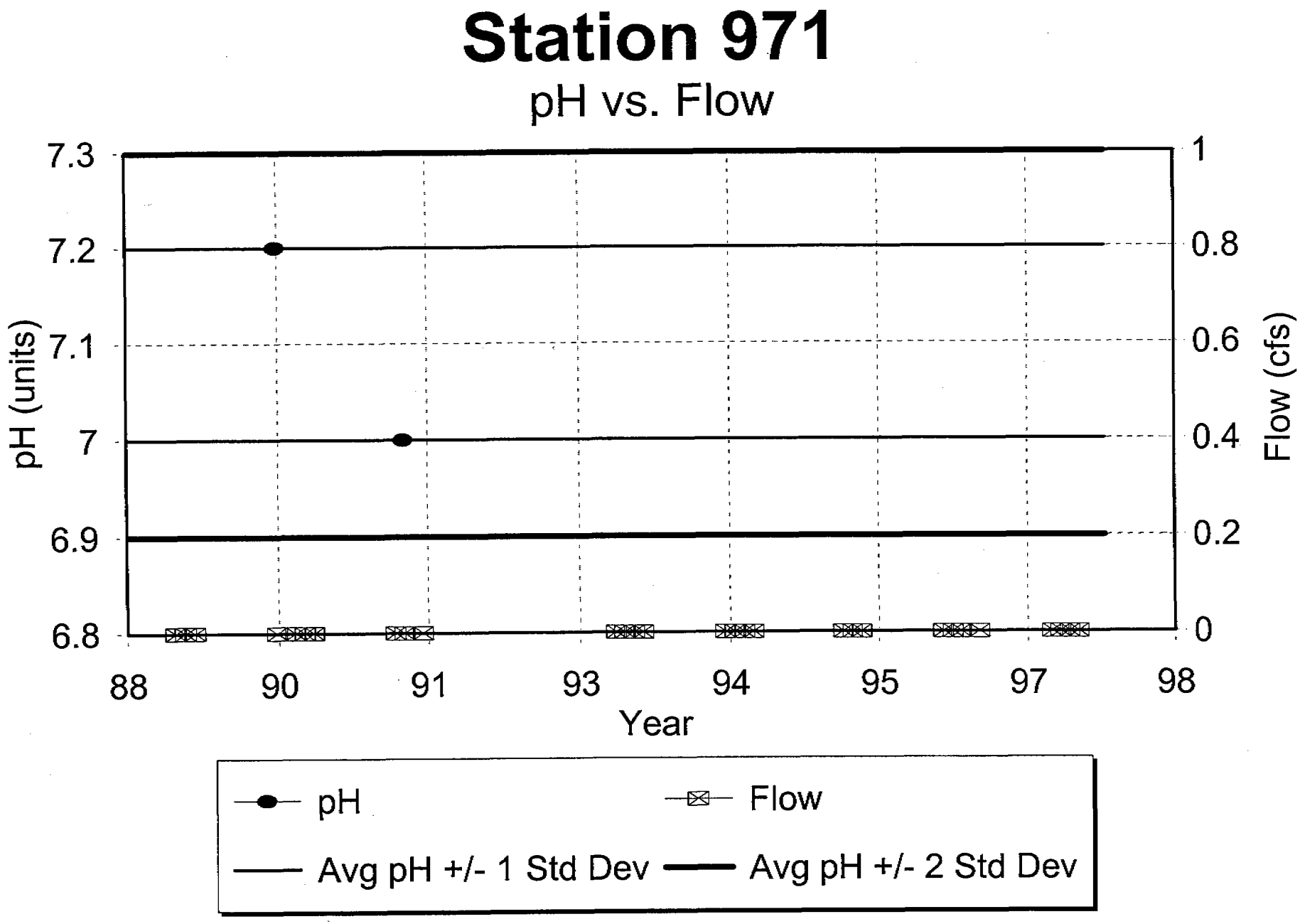

Station 971
Mg vs. Flow
Mg (mg/l)
Flow (cfs)
Year
10
8
6
4
2
0
1
0.8
0.6
0.4
0.2
0
88
90
91
93
94
95
97
98
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 971
Ca vs. Flow
Ca (mg/l)
120
100
80
60
40
20
0
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
88
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

Station 971

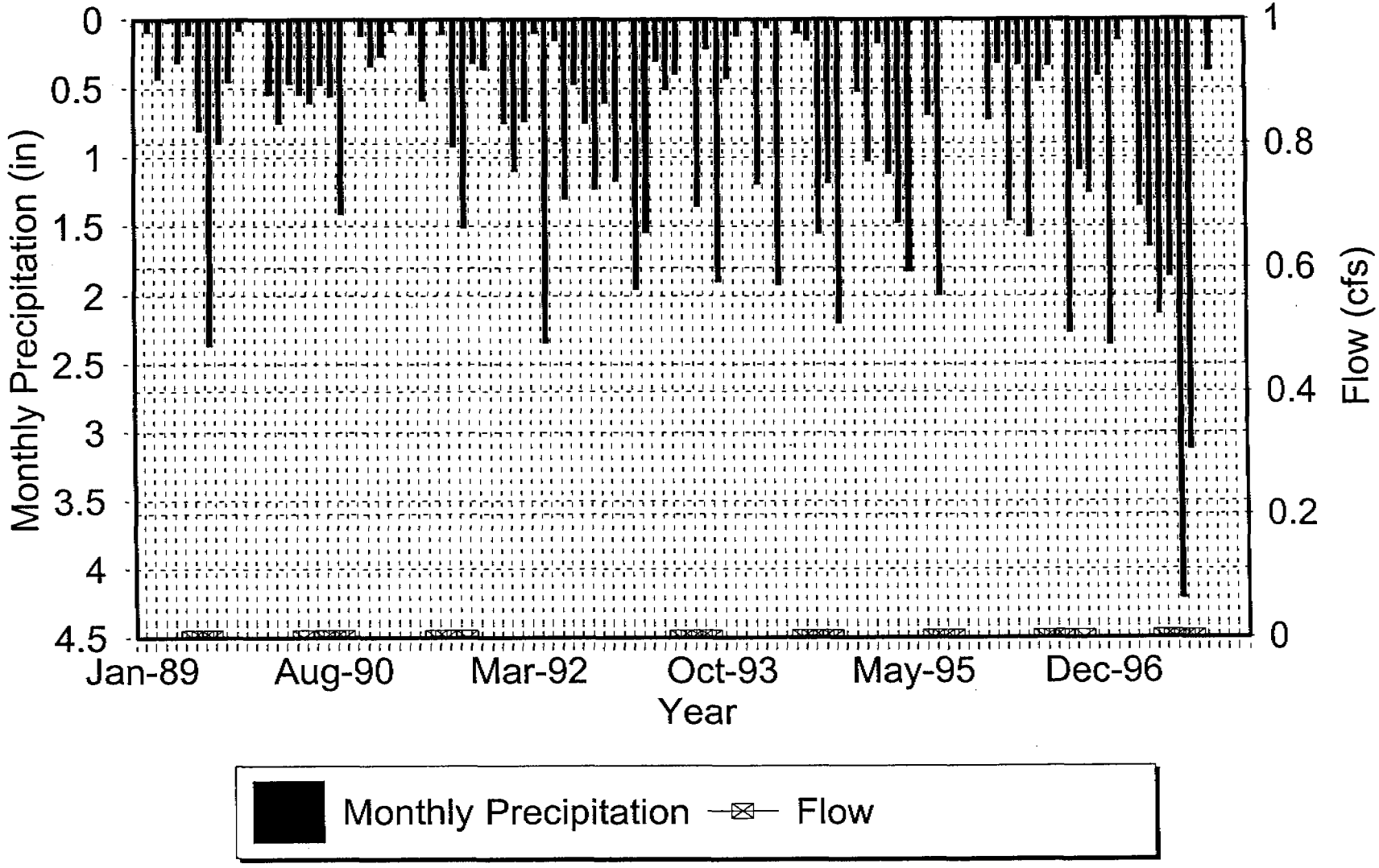
TDS vs. Flow




Station 971
pH vs. Flow
7.3
7.2
7.1
7
6.9
6.8
pH (units)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
88
90
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 971

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 971 | Property: Star Point | Location: 1250' N 2000' W of SE com. Sec 12, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9840

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95																					Snow covered
Jul-95	07/27/95	0																				
Aug-95	08/23/95	0																				
Sep-95	09/28/95	0																				
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/12/96	0																				Dry
Jul-96	07/23/96	0																				Dry
Aug-96	08/19/96	0																				Dry
Sep-96																						
Oct-96	10/01/96	0																				Dry
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0																				Dry
Jul-97	07/30/97	0																				Dry
Aug-97	08/13/97	0																				Dry
Sep-97	09/16/97	0																				Dry
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		29	2	2	2	2	0	0	2	2	1	2	2	2	2	2	2	0	2	2	2	
Minimum		0	7	170	4	124	ERR	ERR	102	134	0	1	2	36	3	1	2	ERR	0.06	0.09 <	0.01	
Maximum		0	7.2	420	9	242	ERR	ERR	234	285	0	2	2	82	7	2	2	ERR	0.06	0.11 <	0.02	
Average		0	7.1	295	6.5	183	ERR	ERR	168	209.5	0	1.5	2	59	5	1.5	2	ERR	0.06	0.1 <	0.015	
Standard Deviation		0	0.1	125	2.5	59	ERR	ERR	66	75.5	0	0.5	0	23	2	0.5	0	ERR	0	0.01 <	0.005	
Avg. -1 Std. Dev.		0	7	170	4	124	ERR	ERR	102	134	0	1	2	36	3	1	2	ERR	0.06	0.09 <	0.01	
Avg. +1 Std. Dev.		0	7.2	420	9	242	ERR	ERR	234	285	0	2	2	82	7	2	2	ERR	0.06	0.11 <	0.02	
Avg. -2 Std. Dev.		0	6.9	45	1.5	65	ERR	ERR	36	58.5	0	0.5	2	13	1	0.5	2	ERR	0.06	0.08 <	0.005	
Avg. +2 Std. Dev.		0	7.3	545	11.5	301	ERR	ERR	300	360.5	0	2.5	2	105	9	2.5	2	ERR	0.06	0.12 <	0.025	

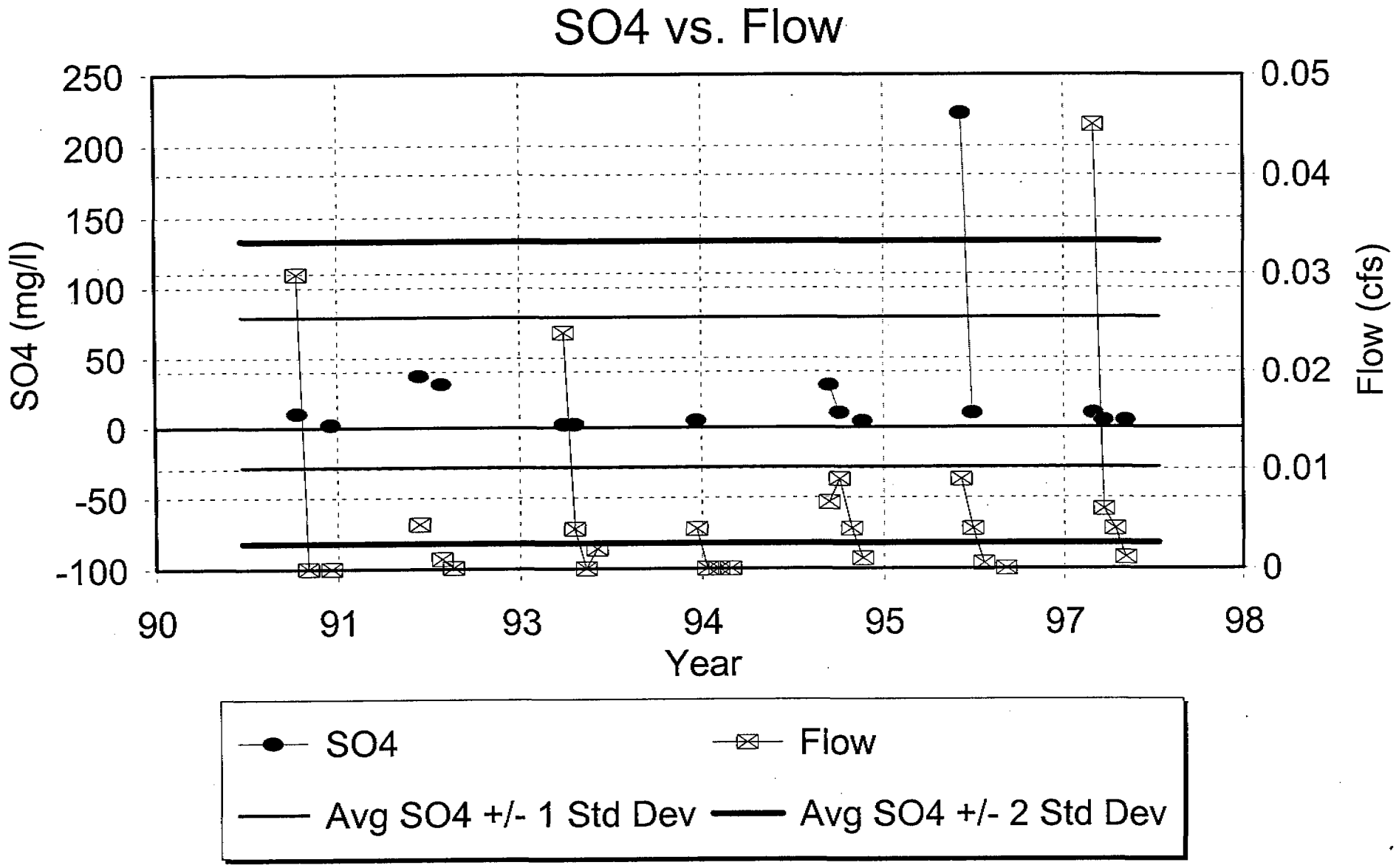
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

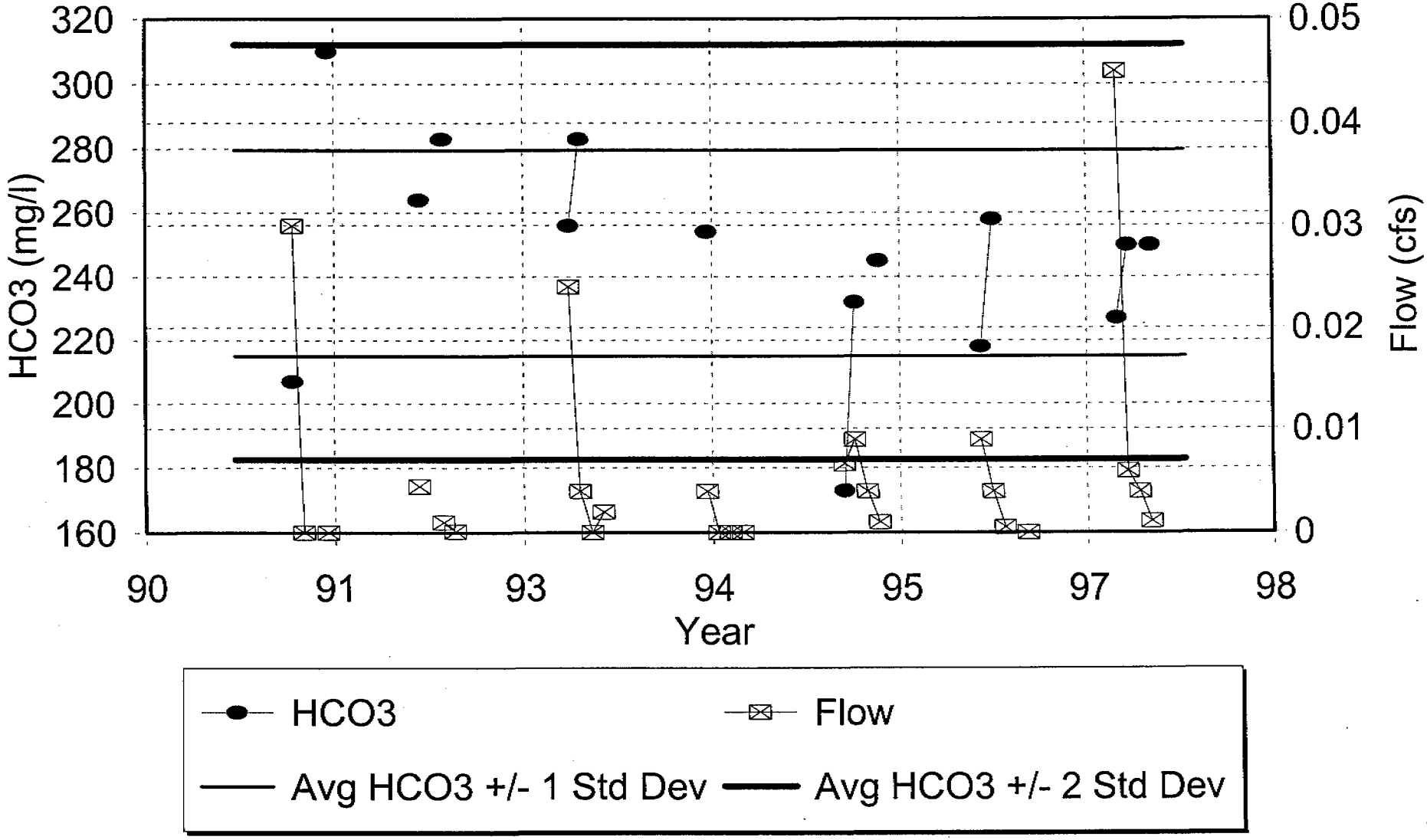
Station: 971 | Property: Star Point | Location: 1250' N 2000' W of SE corn. Sec 12, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9840

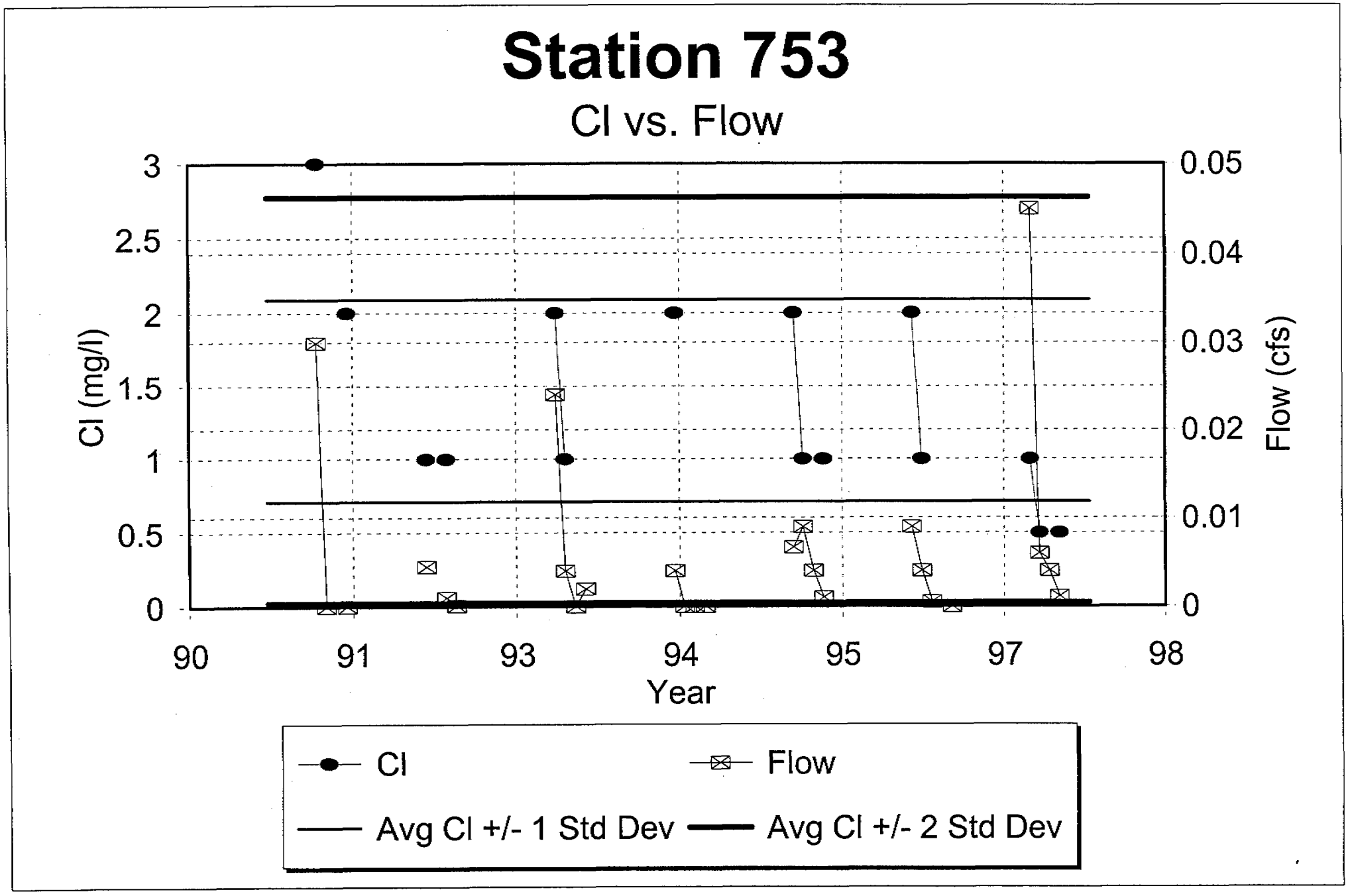
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0																				NO FLOW
Jul-89	07/11/89	0																				NO FLOW
Aug-89	08/22/89	0																				NO FLOW
Sep-89	09/15/89																					NO FLOW
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0	7.2	170	4	124			102	134		1	2	36	3	1	2		0.06	0.11 <	0.01	
Jun-90																						
Jul-90	07/07/90	0																				NO FLOW
Aug-90	08/22/90	0																				NO FLOW
Sep-90	09/24/90	0																				NO FLOW
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0																				NO FLOW
Jul-91	07/15/91	0	7	420	9	242			234	285	0	2	2	82	7	2	2		0.06	0.09	0.02	
Aug-91																						
Sep-91	09/17/91	0																				NO FLOW
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/25/93	0																				NO FLOW
Jul-93	07/26/93	0																				NO FLOW
Aug-93	08/18/93	0																				NO FLOW
Sep-93	09/27/93	0																				NO FLOW
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/09/94	0																				NO FLOW
Jul-94	07/20/94	0																				NO FLOW
Aug-94	08/31/94	0																				NO FLOW
Sep-94	09/21/94	0																				NO FLOW
Oct-94																						
Nov-94																						
Dec-94																						


Station 753
SO4 vs. Flow
250
200
150
100
50
0
-50
-100
SO4 (mg/l)
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
90
91
93
94
95
97
98
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Station 753

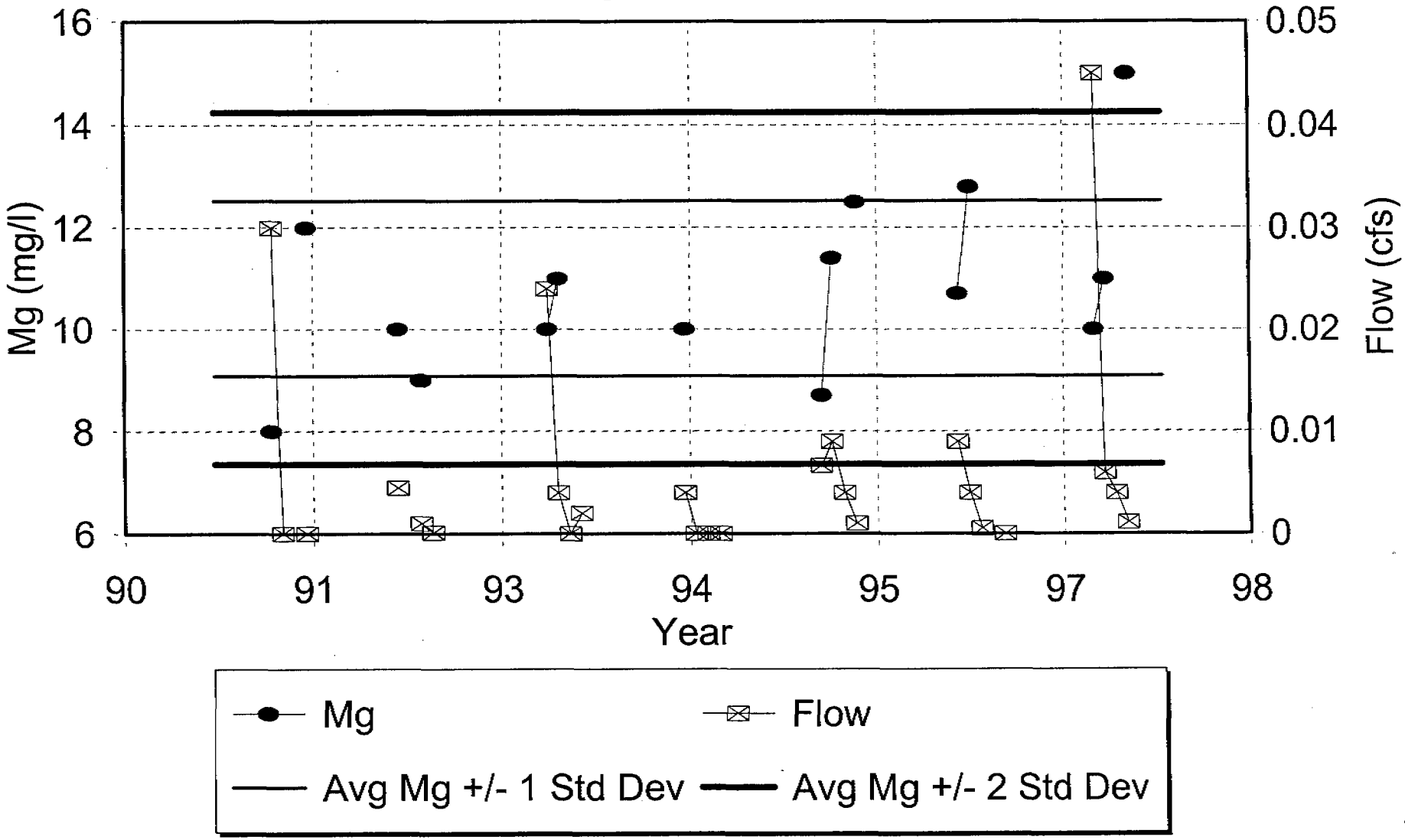
HCO3 vs. Flow

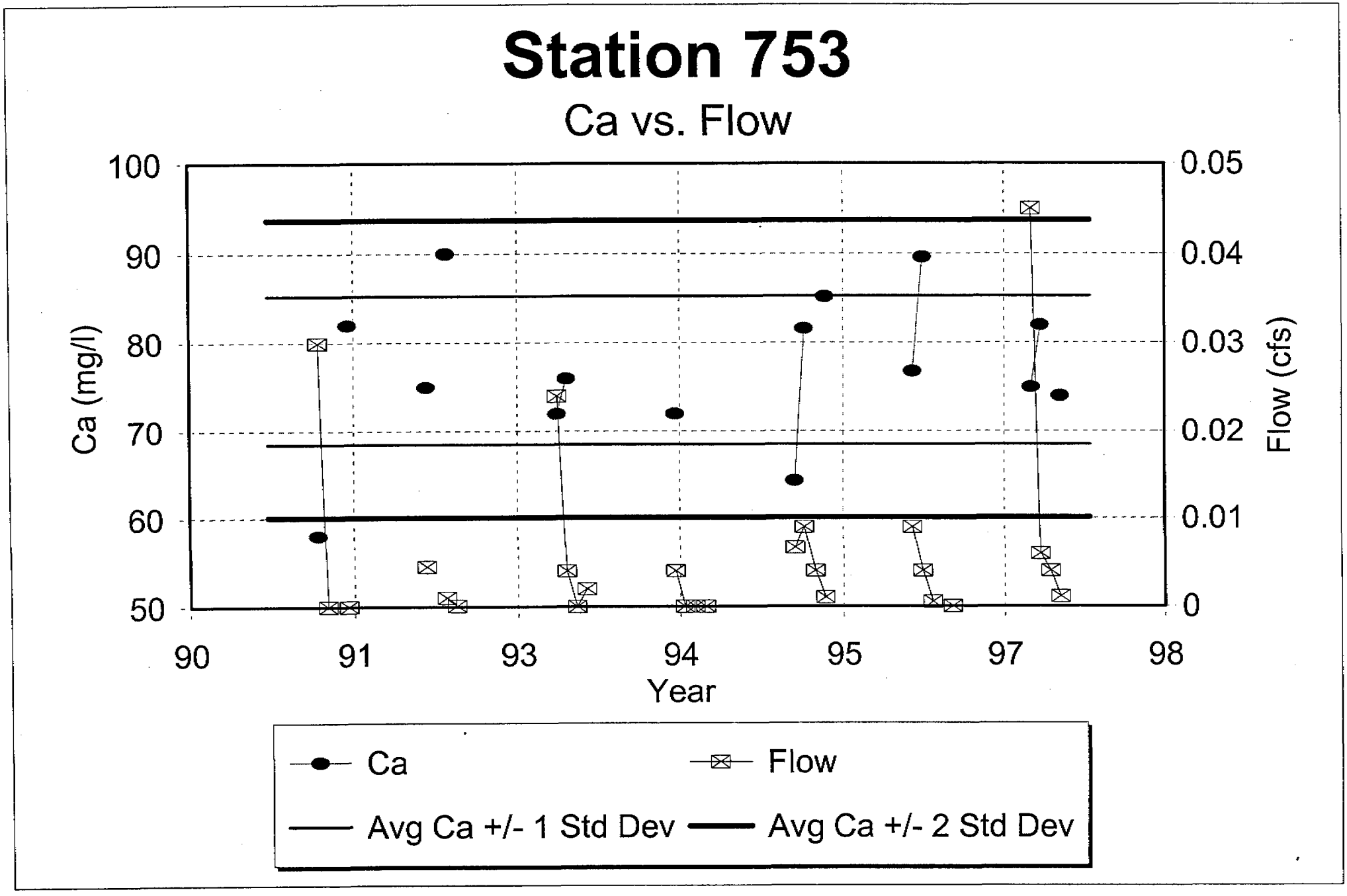


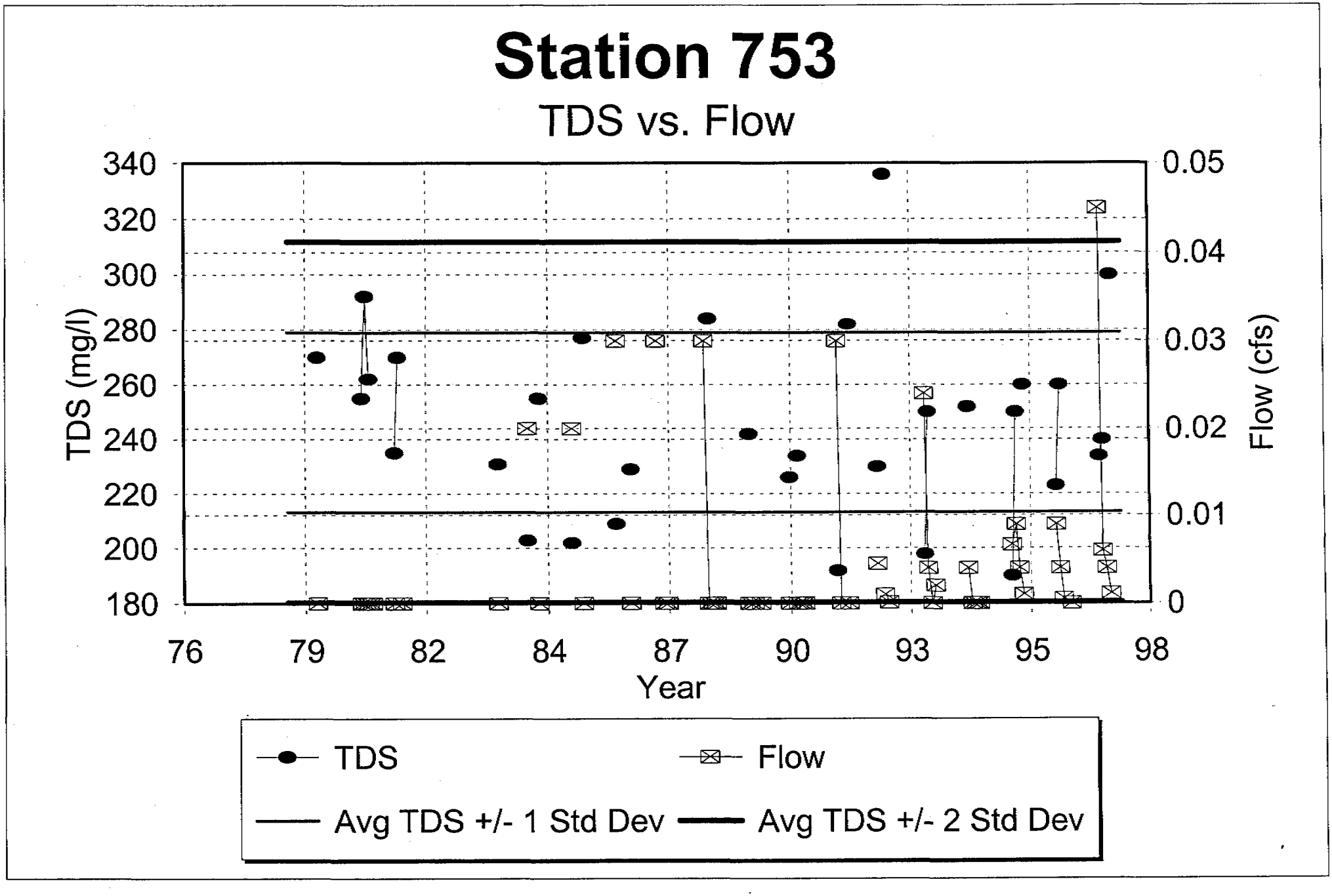

Station 753
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
3
2.5
2
1.5
1
0.5
0
0.05
0.04
0.03
0.02
0.01
0
90
91
93
94
95
97
98
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

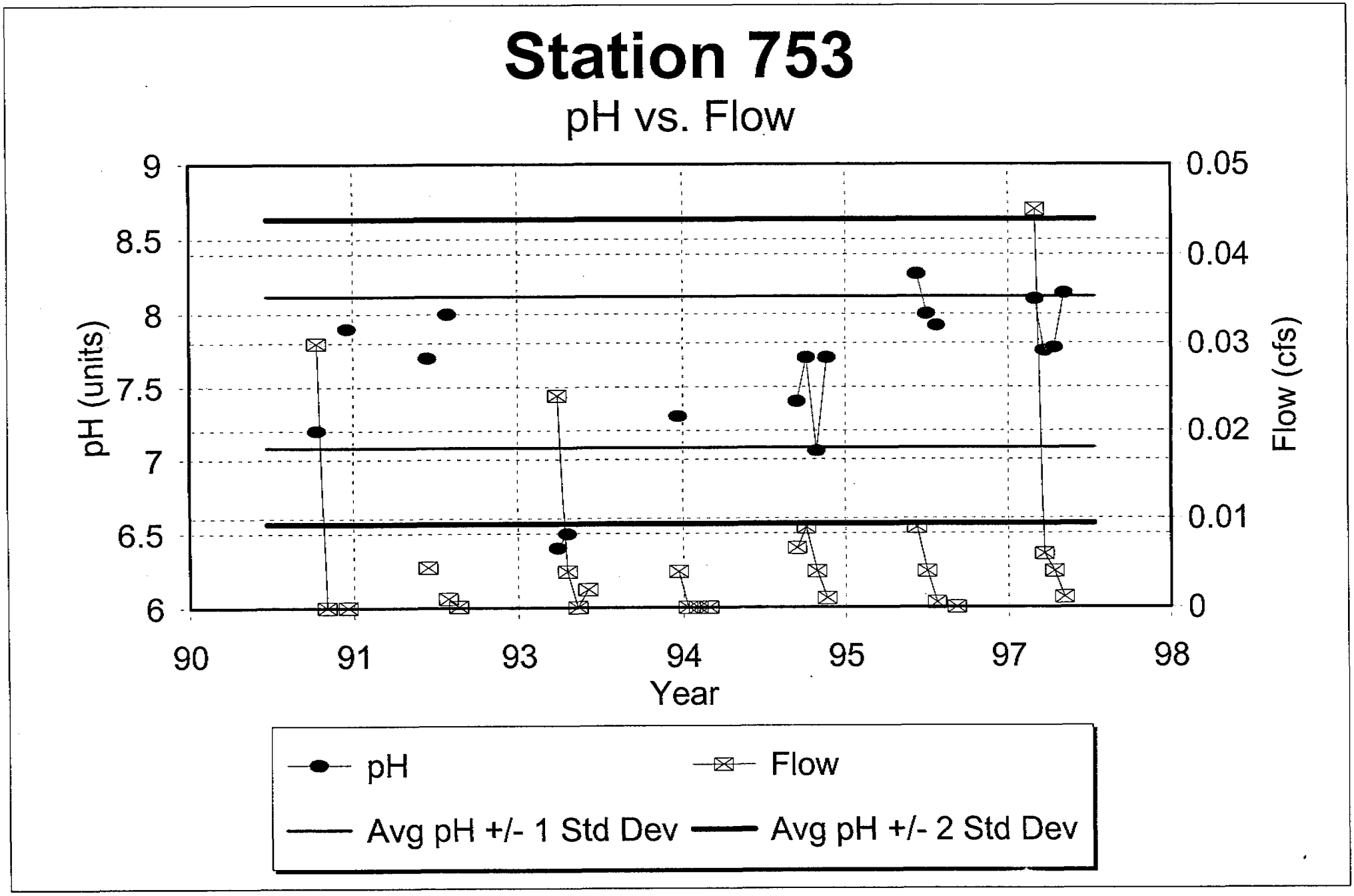
Station 753

Mg vs. Flow



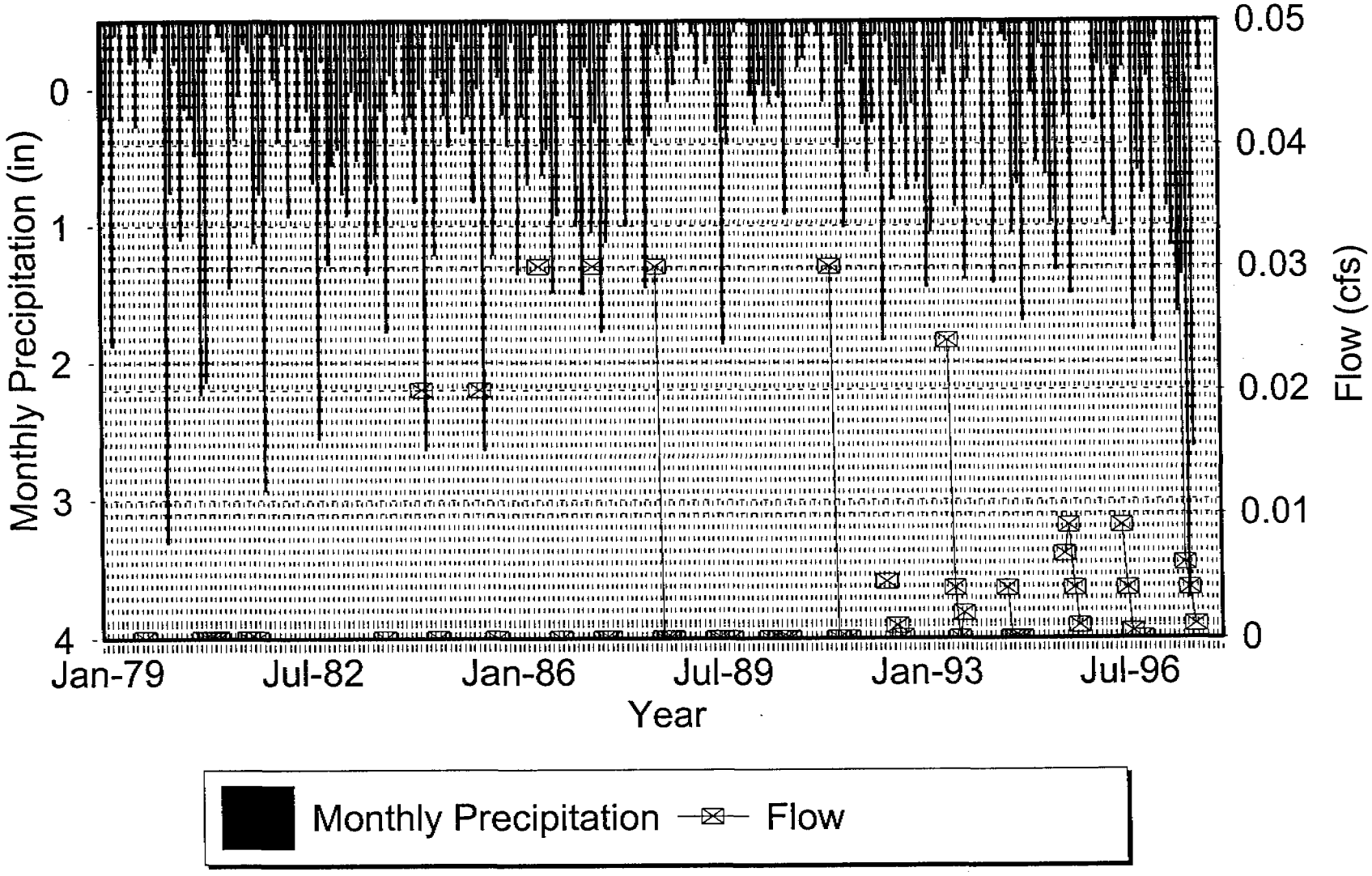

Station 753
Ca vs. Flow
100
90
80
70
60
50
Ca (mg/l)
0.05
0.04
0.03
0.02
0.01
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 753
TDS vs. Flow
TDS (mg/l)
340
320
300
280
260
240
220
200
180
Flow (cfs)
0.05
0.04
0.03
0.02
0.01
0
76
79
82
84
87
90
93
95
98
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 753
pH vs. Flow
pH (units)
9
8.5
8
7.5
7
6.5
6
Flow (cfs)
0.05
0.04
0.03
0.02
0.01
0
90
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 753

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 753 | Property: Star Point | Location: 700' S 1500' W of NE com. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 10050

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.045	8.1	441	7	234			229	227	2 <	1 <	10 <	75	10	0.9	1.5	-1	0.01 <	0.02	0.005	
Jul-97	07/30/97	0.006	7.75	487	8.5	240			250	250	10 <	0.5 <	5 <	82	11	1.2	1.7	1	0.01 <	0.03	0.031	
Aug-97	08/13/97	0.004	7.77	464	9																	
Sep-97	09/16/97	0.0011	8.14	588	6	300			250	250	10 <	0.5 <	5 <	74	15	1.7	2	0.6	0.07	0.19	0.088	
Oct-97																						
Nov-97																						
Dec-97																						
END DATA																						
Count		54	16	18	18	32	0	0	15	15	15	15	15	15	15	15	15	8	15	15	13	
Minimum		0	6.4	285	2.2	190	ERR	ERR	178	173 <	0 <	0.5 <	2 <	58	8 <	0.8	1	-1.3 <	0.01 <	0.01 <	0.005	
Maximum		0.045	8.27	588	10	336	ERR	ERR	277	310 <	10 <	3 <	223 <	90	15 <	2	2	4.6 <	0.3 <	1.51 <	0.19	
Average		0.0054	7.6006	438.67	6.8772	246.03	ERR	ERR	236.93	247.33 <	3.2667 <	1.4 <	25.733 <	76.9	10.807 <	1.1333	1.5933	2.025 <	0.04 <	0.1627 <	0.0338	
Standard Deviation		0.0104	0.5173	66.32	1.8975	32.85	ERR	ERR	25.17	32.314 <	3.7677 <	0.686 <	53.87 <	8.3918	1.7218 <	0.307	0.3855	2.3242 <	0.0711 <	0.3692 <	0.0501	
Avg. -1 Std. Dev.		-0.005	7.0833	372.35	4.9797	213.18	ERR	ERR	211.76	215.02 <	-0.501 <	0.712 <	-28.14 <	68.508	9.0849 <	0.8264	1.2076	-0.299 <	-0.031 <	-0.207 <	-0.016	
Avg. +1 Std. Dev.		0.0157	8.1178	504.99	8.7747	278.88	ERR	ERR	262.1	279.65 <	7.0344 <	2.088 <	79.603 <	85.292	12.528 <	1.4403	1.9788	4.3492 <	0.1111 <	0.5319 <	0.0839	
Avg. -2 Std. Dev.		-0.015	6.5661	306.03	3.0822	180.33	ERR	ERR	186.59	182.7 <	-4.269 <	0.024 <	-82.01 <	60.116	7.3631 <	0.5194	0.8223	-2.623 <	-0.102 <	-0.576 <	-0.066	
Avg. +2 Std. Dev.		0.0261	8.6351	571.31	10.672	311.73	ERR	ERR	287.27	311.96 <	10.602 <	2.776 <	133.47 <	93.684	14.25 <	1.7472	2.3644	6.6734 <	0.1822 <	0.9012 <	0.134	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 753 | Property: Star Point | Location: 700' S 1500' W of NE com. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 10050

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0.03	7.2	390	4	192			178	207	10	3	10	58	8	2	1	<	0.02 <	0.02 <	0.01	
Jul-91	07/15/91	0																				
Aug-91																						
Sep-91	09/18/91	0	7.9	500	6	282			254	310	0	2	2	82	12	1	2		0.3	0.31	0.19	
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/19/92	0.0045	7.7	425	7.1	230			229	264	0	1	37	75	10	1	1	<	0.02 <	0.02		
Jun-92																						
Jul-92	07/15/92	0.001	8	458	7.6	336			262	283	0	1	31	90	9 <	1	1	<	0.02	1.51		
Aug-92	08/25/92	0.0001																				
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/24/93	0.024	6.4	347	4.7	198			221	256	0	2	2	72	10 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0.004	6.5	436	7.3	250			235	283	7	1	2	76	11 <	1	2	<	0.02	0.03	0.02	
Aug-93	08/17/93	0																				WORK ON SPRING HAD
Sep-93	09/28/93	0.002																				COWS HAD TOO MUDDY
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/09/94	0.004	7.3	477	2.2	252			221	254	0	2	5	72	10 <	1	1	<	0.02 <	0.02 <	0.01	
Jul-94	07/19/94	0																				NO FLOW
Aug-94	08/31/94	0																				NO FLOW
Sep-94	09/21/94	0																				NO FLOW
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.0067	7.4	382	5.5	190			197	173 <	2	2	30	64.3	8.7	1.3	1.8	-1.3 <	0.01 <	0.01 <	0.005	
Jul-95	07/27/95	0.009	7.7	489	8	250			251	232 <	2	1 <	10	81.6	11.4	0.8	1.8	4.6 <	0.01	0.05	0.005	
Aug-95	08/23/95	0.004	7.06	403	8																	
Sep-95	09/28/95	0.001	7.7	285	7.89	260			264	245 <	2	1	4	85.2	12.5	1.1	1.7	3.6	0.02	0.14	0.027	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/12/96	0.009	8.27	506	6	223			236	218	2 <	2	223	76.8	10.7	1	1.6	4.3	0.01 <	0.01 <	0.005	
Jul-96	07/23/96	0.004	8	423	9	260			277	258	2 <	1 <	10 <	89.6	12.8	1	1.8	4.4	0.04	0.06	0.034	
Aug-96	08/19/96	0.0005	7.92	395	10																	
Sep-96																						
Oct-96	10/01/96	0																				Damp-no sample taken
Nov-96																						
Dec-96																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 753 | Property: Star Point | Location: 700' S 1500' W of NE com. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 10050

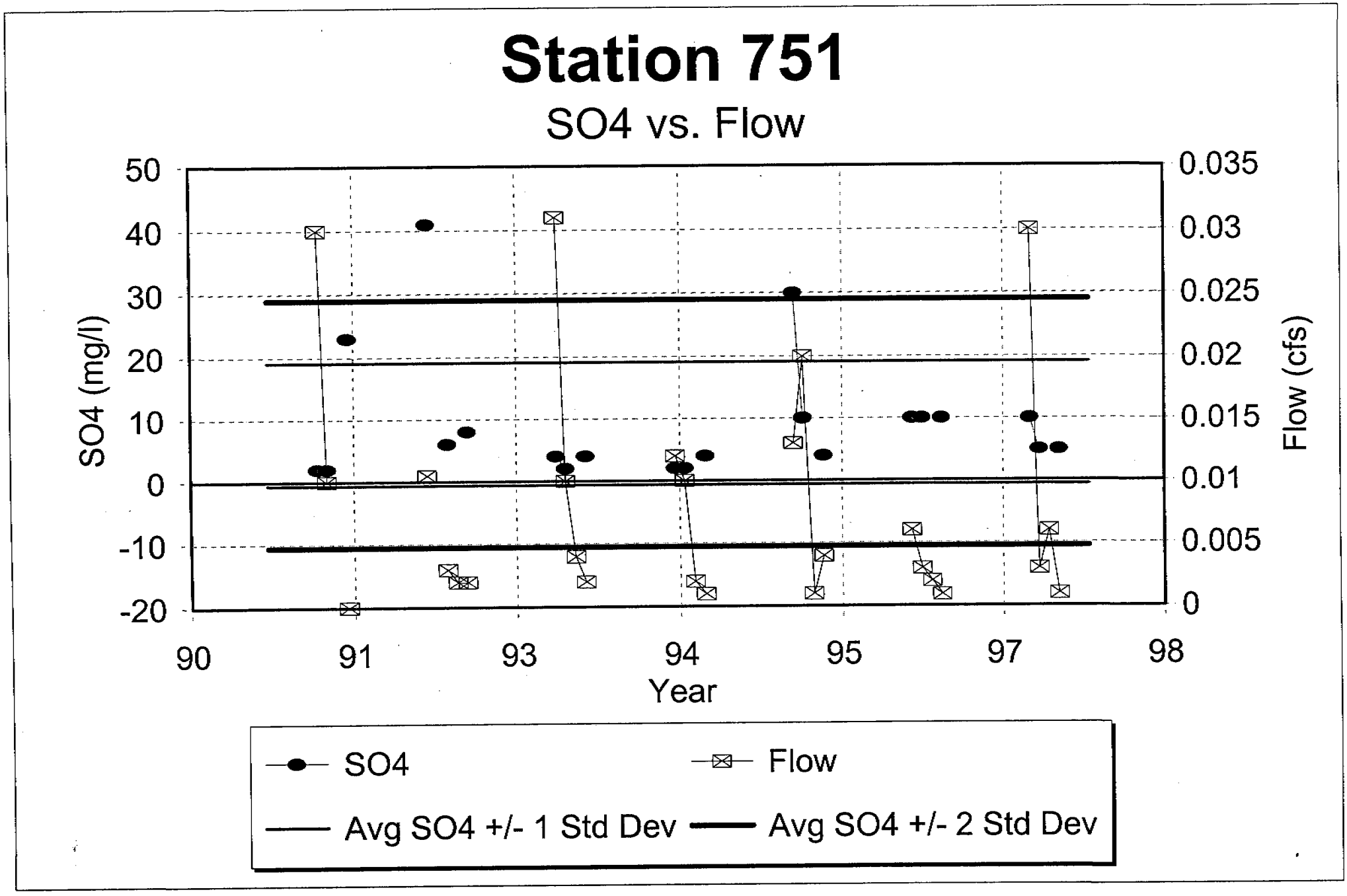
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85	02/21/85																					IN-ACCESSIBLE - SNOW
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/13/85	0.02				202																
Jul-85																						
Aug-85																						
Sep-85	09/24/85	0				277																
Oct-85																						
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86	06/11/86	0.03				209																
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86	10/10/86	0				229																
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87	05/19/87	0.03																				
Jun-87																						
Jul-87	07/20/87	0																				
Aug-87	08/12/87	0																				
Sep-87																						
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/01/88	0.03																				
Jul-88	07/15/88	0				264																
Aug-88	08/19/88	0																				NO FLOW
Sep-88	09/05/88	0																				NO FLOW
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0				242																
Jul-89	07/11/89	0																				NO FLOW
Aug-89	08/22/89																					SEEP WET AREA
Sep-89	09/15/89	0																				NO FLOW
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0				226																
Jun-90																						
Jul-90	07/02/90	0				234																
Aug-90	08/30/90	0																				NO FLOW
Sep-90	09/24/90	0																				NO FLOW
Oct-90																						
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

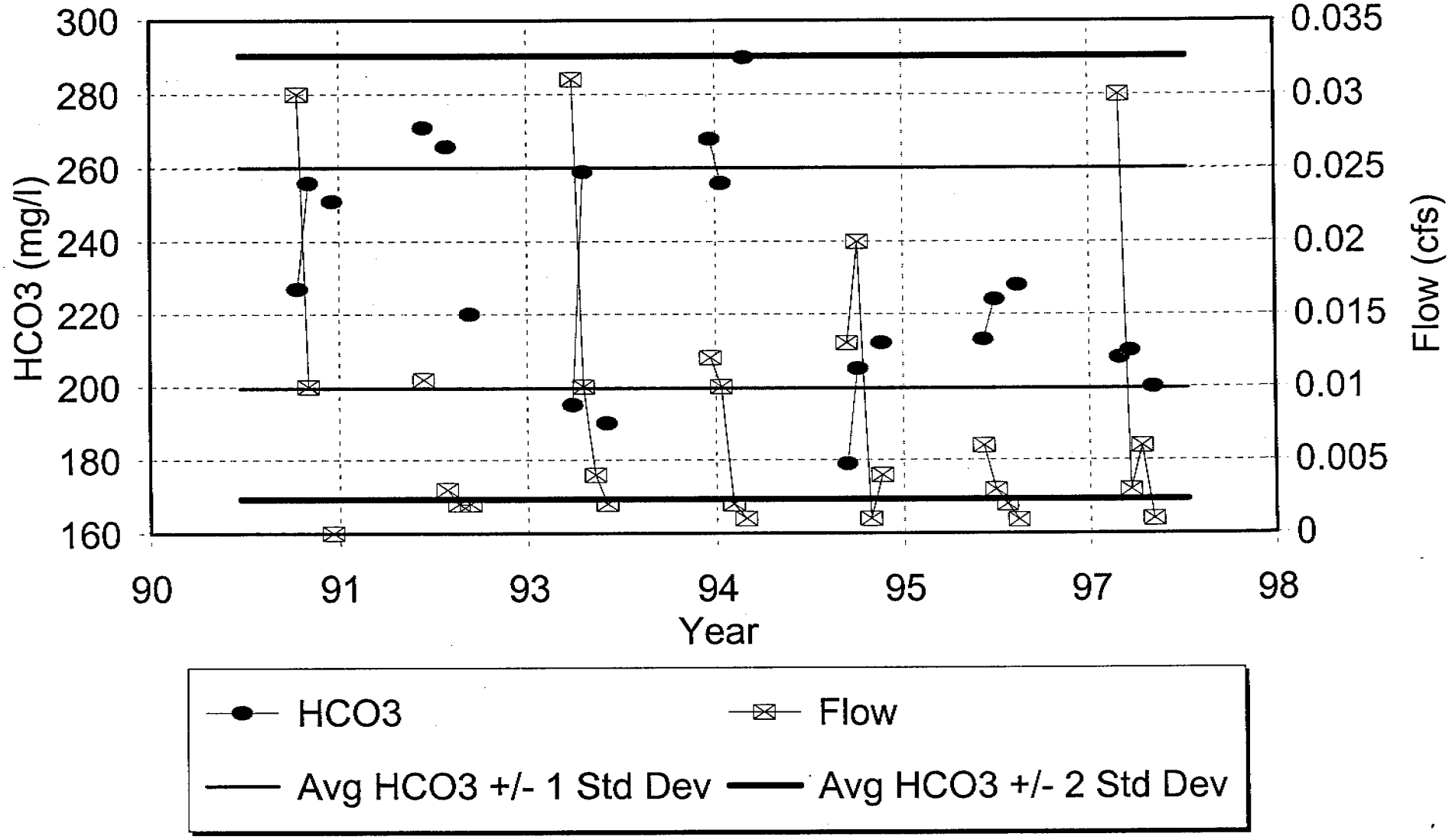
Station: 753 | Property: Star Point | Location: 700' S 1500' W of NE corn. Sec 13, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 10050

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-79																						
Feb-79																						
Mar-79																						
Apr-79																						
May-79																						
Jun-79																						
Jul-79																						
Aug-79																						
Sep-79	09/11/79	0				270																
Oct-79																						
Nov-79																						
Dec-79																						
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80																						
Sep-80	09/30/80	0				255																
Oct-80	10/22/80	0				292																
Nov-80	11/10/80	0				262																
Dec-80	12/30/80	0																				SNOW
Jan-81	01/06/81																					IN-ACCESSIBLE - SNOW
Feb-81	02/04/81																					IN-ACCESSIBLE - SNOW
Mar-81	03/25/81																					IN-ACCESSIBLE - SNOW
Apr-81	04/28/81																					IN-ACCESSIBLE - SNOW
May-81	05/26/81																					IN-ACCESSIBLE - SNOW
Jun-81	06/16/81	0				235																
Jul-81						270																
Aug-81	08/29/81	0																				
Sep-81																						
Oct-81	10/07/81																					DRY
Nov-81	11/24/81																					IN-ACCESSIBLE
Dec-81	12/29/81																					IN-ACCESSIBLE
Jan-82																						
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82																						
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	03/24/83																					IN-ACCESSIBLE
Apr-83																						
May-83	05/12/83																					IN-ACCESSIBLE - SNOW
Jun-83	06/29/83																					IN-ACCESSIBLE - SNOW
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83	10/05/83	0				231																
Nov-83																						
Dec-83																						
Jan-84	01/06/84																					COVERED BY SNOW NO
Feb-84																						COVERED BY SNOW NO
Mar-84	03/30/84																					
Apr-84																						
May-84																						
Jun-84	06/21/84	0.02				203																
Jul-84																						
Aug-84																						
Sep-84	09/21/84	0				255																
Oct-84																						
Nov-84																						
Dec-84	12/11/84																					IN-ACCESSIBLE - SNOW


Station 751
SO4 vs. Flow
SO4 (mg/l)
50
40
30
20
10
0
-10
-20
Flow (cfs)
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
90
91
93
94
95
97
98
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

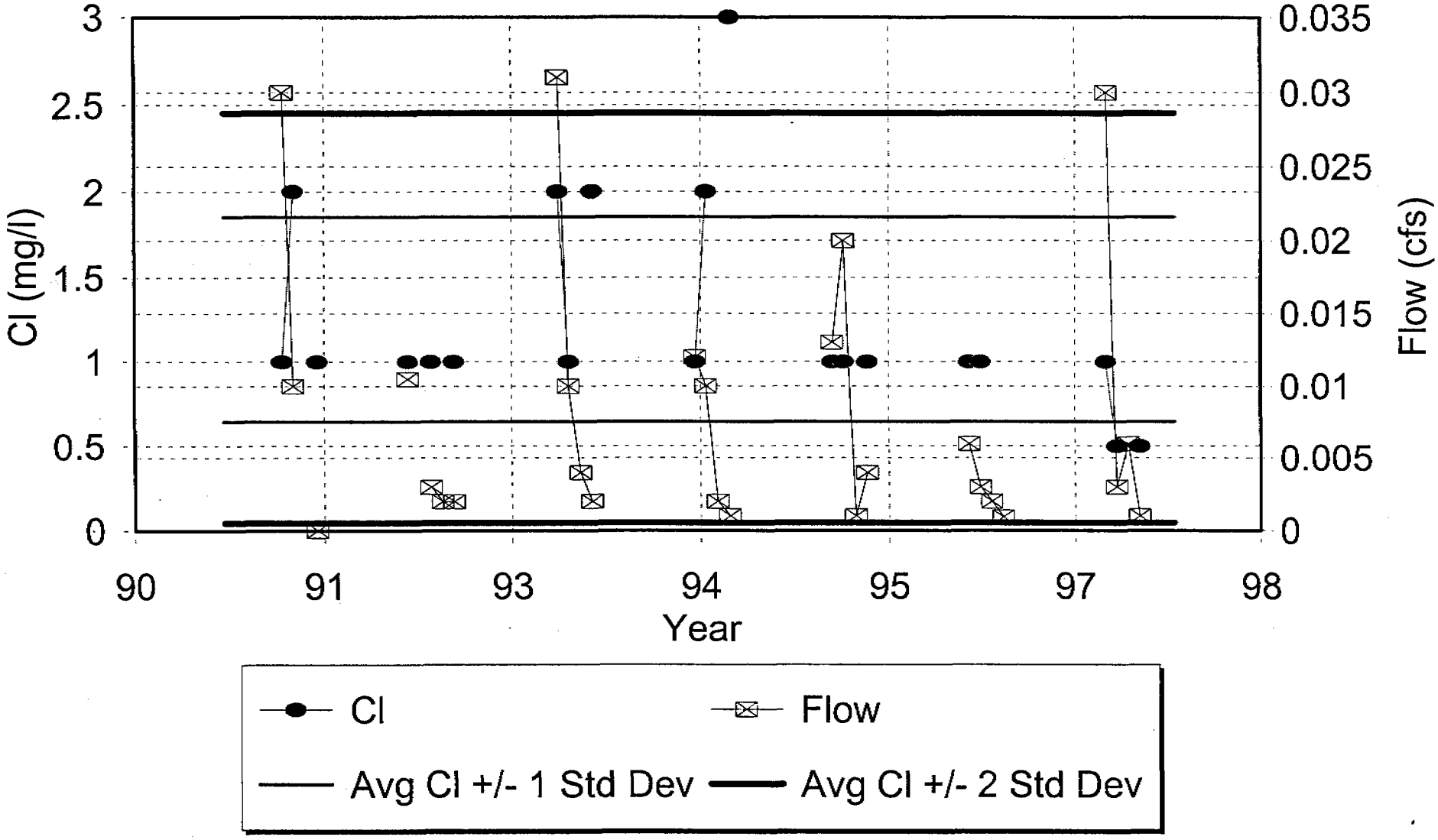
Station 751

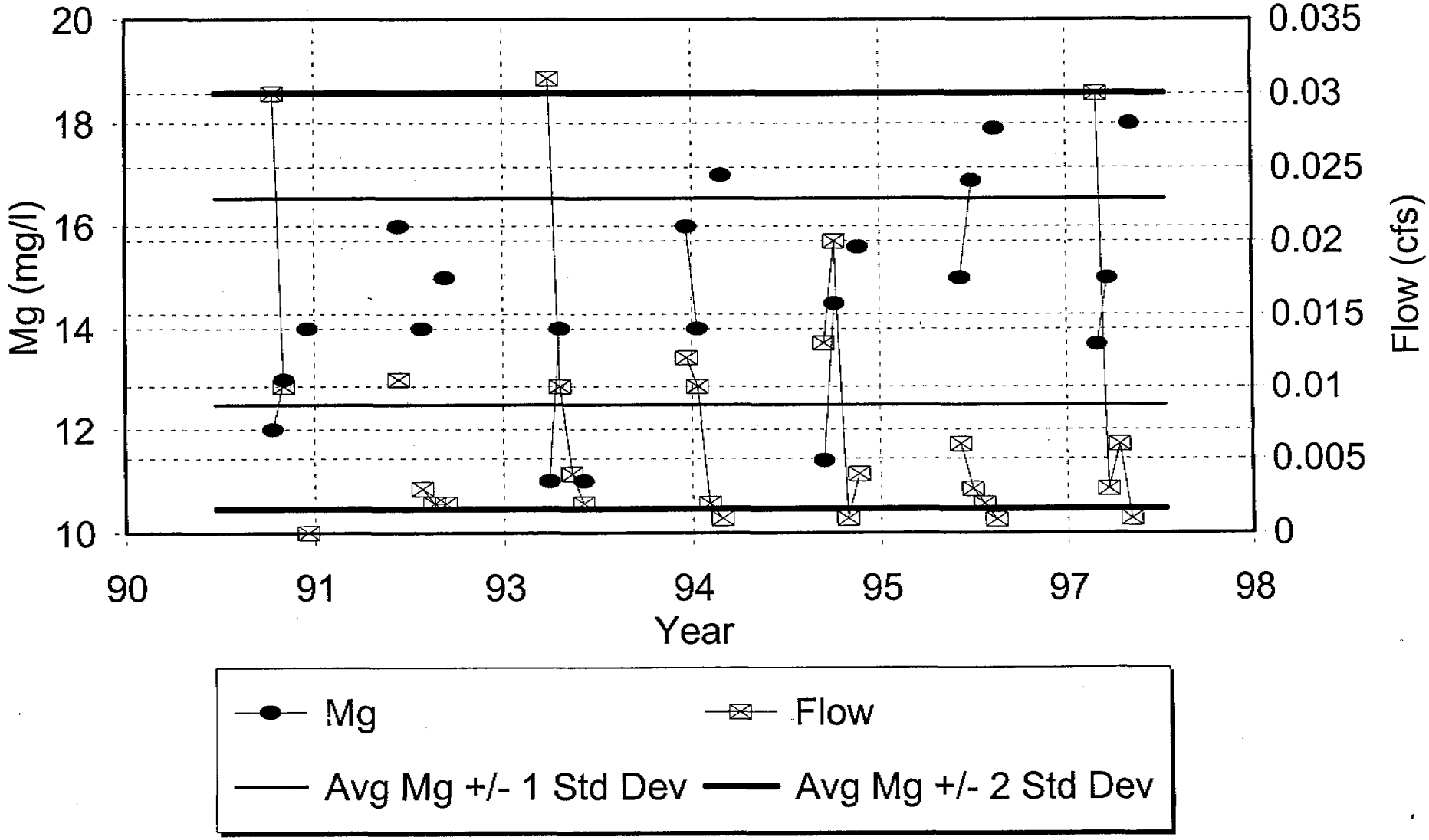
HCO3 vs. Flow

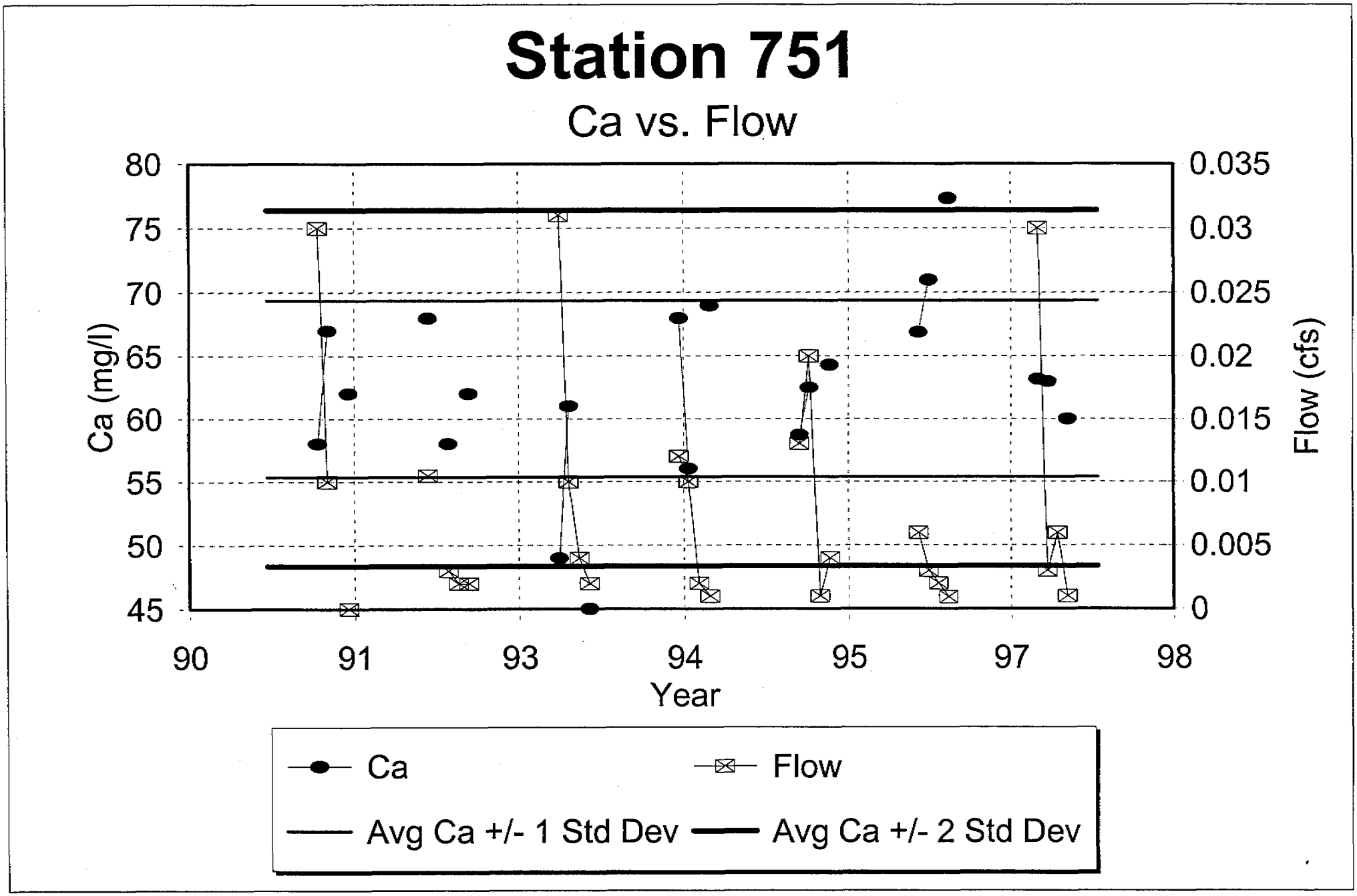


Station 751

Cl vs. Flow

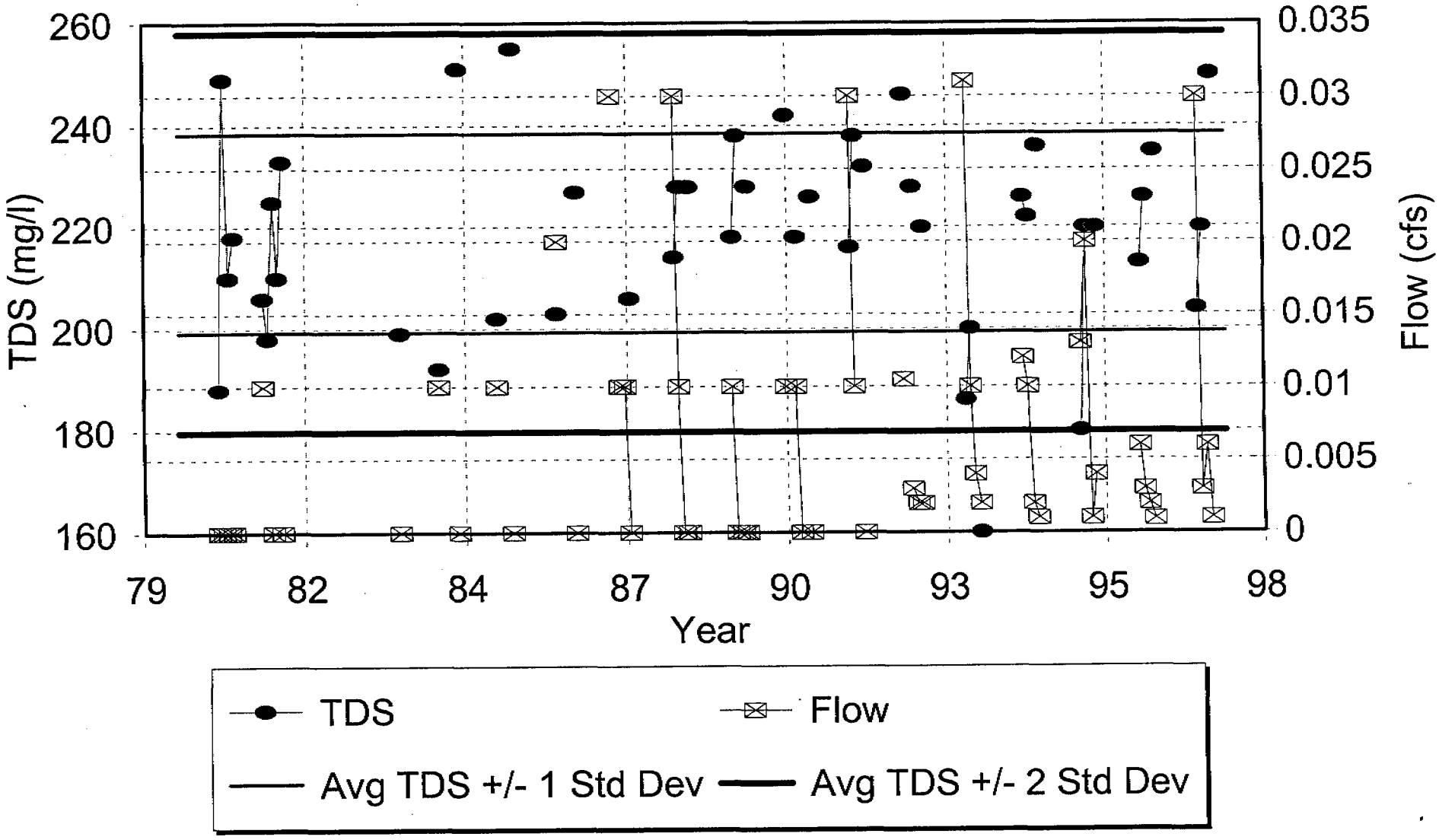


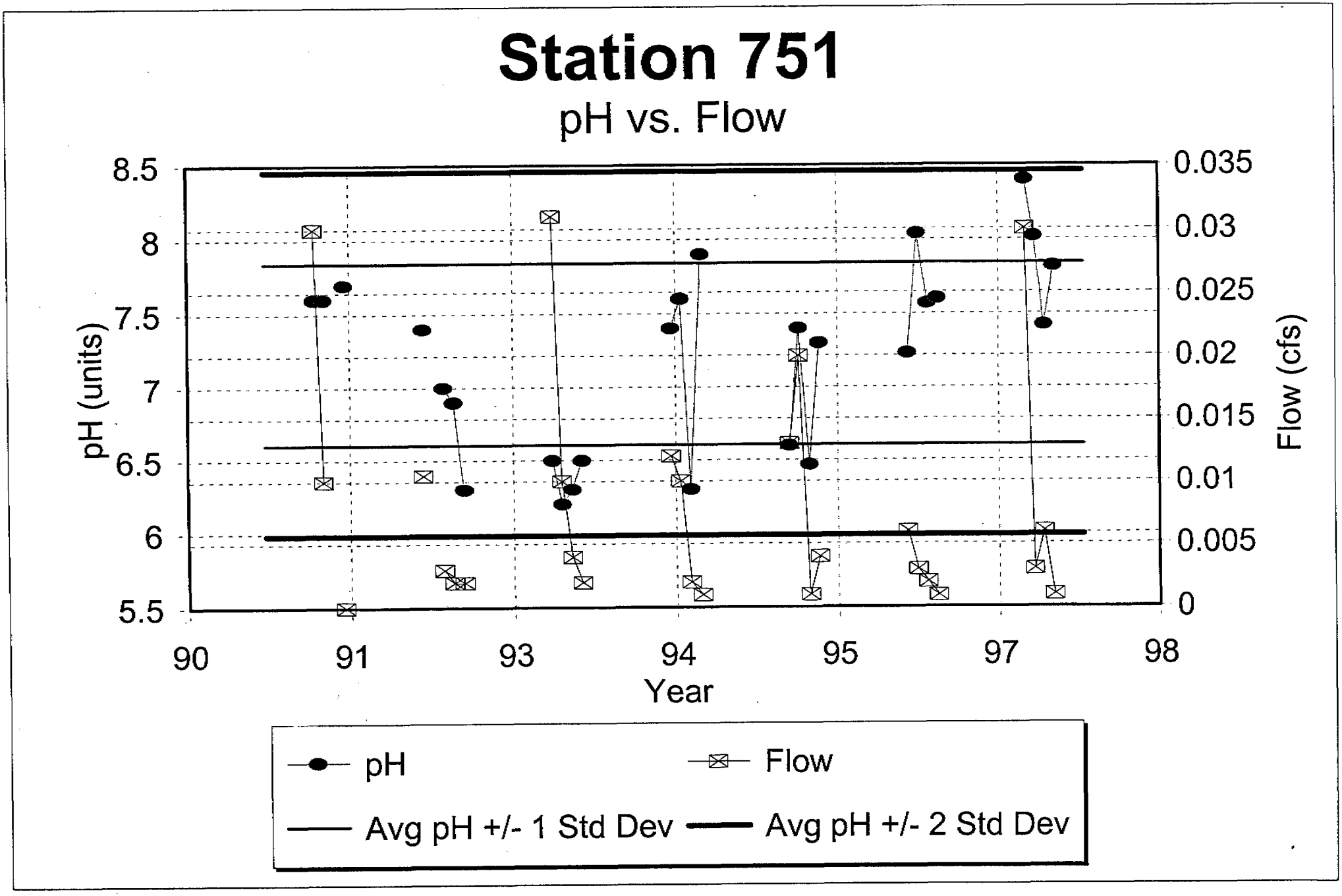

Station 751
Mg vs. Flow
Mg (mg/l)
20
18
16
14
12
10
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Flow (cfs)
90
91
93
94
95
97
98
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 751
Ca vs. Flow
Ca (mg/l)
80
75
70
65
60
55
50
45
Flow (cfs)
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
90
91
93
94
95
97
98
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

Station 751

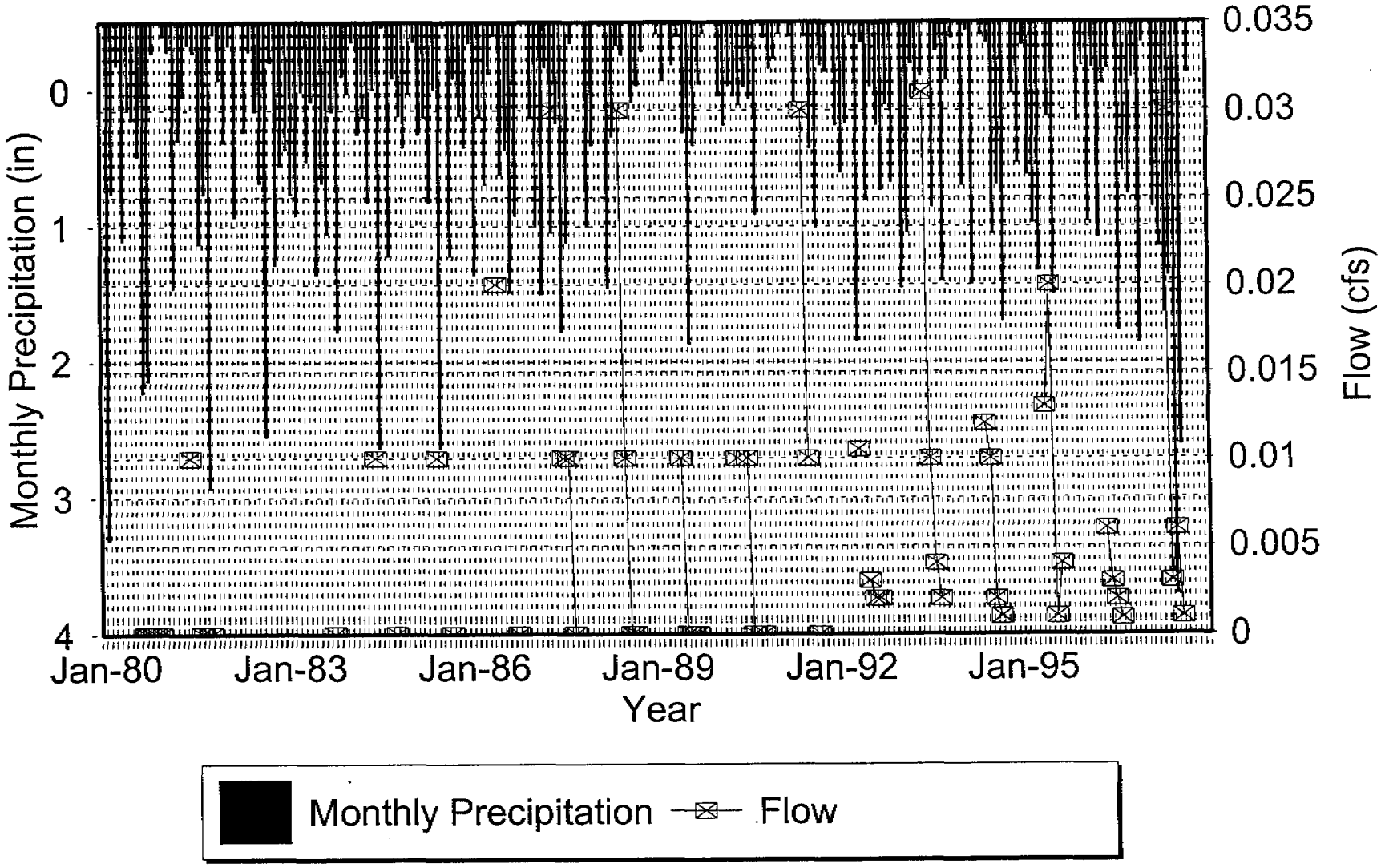
TDS vs. Flow




Station 751
pH vs. Flow
8.5
8
7.5
7
6.5
6
5.5
pH (units)
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Flow (cfs)
90
91
93
94
95
97
98
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

Station 751

Monthly Precipitation vs. Flow



Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 751 | Property: Star Point | Location: 700' S 375' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9890

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
END DATA																						
Count		57	27	27	27	47	0	0	21	21	21	20	21	21	21	21	21	9	21	21	18	
Minimum		< 0	6.2	238	4	160	ERR	ERR	158	179	< 0	< 0.5	< 2	< 45	11	< 0.3	1	-3.2	< 0.01	< 0.01	< 0.005	
Maximum		< 0.031	8.4	476	11.9	255	ERR	ERR	267	290	< 12	< 3	< 41	< 77.3	18	< 1	3	8.4	< 0.12	< 0.2	< 0.07	
Average		< 0.0068	7.2248	406.07	7.5107	218.94	ERR	ERR	215.48	229.9	< 3.0952	< 1.25	< 9.2381	< 62.376	14.524	< 0.8143	1.6429	3.7111	< 0.0257	< 0.0576	< 0.0147	
Standard Deviation		< 0.0089	0.6181	57.244	2.2108	19.559	ERR	ERR	24.484	30.278	< 3.9268	< 0.6021	< 9.8846	< 7.0102	2.0298	< 0.2494	0.4767	3.0798	< 0.0263	< 0.0572	< 0.0173	
Avg. -1 Std. Dev.		< -0.002	6.6067	348.83	5.2999	199.38	ERR	ERR	190.99	199.63	< -0.832	< 0.6479	< -0.646	< 55.366	12.494	< 0.5649	1.1662	0.6313	< -0.001	< 0.0004	< -0.003	
Avg. +1 Std. Dev.		< 0.0157	7.8429	463.32	9.7216	238.5	ERR	ERR	239.96	260.18	< 7.022	< 1.8521	< 19.123	< 69.386	16.554	< 1.0636	2.1195	6.791	< 0.052	< 0.1148	< 0.032	
Avg. -2 Std. Dev.		< -0.011	5.9886	291.59	3.0891	179.82	ERR	ERR	166.51	169.35	< -4.758	< 0.0458	< -10.53	< 48.356	10.464	< 0.3156	0.6895	-2.449	< -0.027	< -0.057	< -0.02	
Avg. +2 Std. Dev.		< 0.0246	8.461	520.56	11.932	258.05	ERR	ERR	264.45	290.46	< 10.949	< 2.4542	< 29.007	< 76.397	18.563	< 1.313	2.5962	9.8708	< 0.0783	< 0.1721	< 0.0493	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 751 | Property: Star Point | Location: 700' S 375' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9890

Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/19/92	0.0105	7.4	456	4	246			236	271	0	1	41	68	16	1	2	<	0.02 <	0.02		
Jun-92																						
Jul-92	07/15/92	0.003	7	425	5.9	228			202	266	0	1	6	58	14 <	1	1	<	0.02	0.03		
Aug-92	08/26/92	0.002	6.9	420	5.8																	
Sep-92	09/21/92	0.002	6.3	415	10.4	220			217	220	10	1	8	62	15 <	1	1	<	0.02	0.11		
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/24/93	0.031	6.5	359	5.7	186			168	195	0	2	4	49	11 <	1	1	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0.01	6.2	381	6.1	200			210	259	0	1	2	61	14 <	1	2	<	0.02 <	0.02 <	0.01	
Aug-93	08/17/93	0.004	6.3	401	7.7																	
Sep-93	09/28/93	0.002	6.5	428	9.1	160			158	190	0	2	4	45	11 <	1	2	<	0.02	0.03 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/20/94	0.012	7.4	471	5	226			236	268	0	1	2	68	16 <	1	2	<	0.02 <	0.02 <	0.01	
Jul-94	07/19/94	< 0.01	7.6	450	11.9	222			197	256	7	2	2	56	14	1	2	<	0.02 <	0.02 <	0.01	
Aug-94	08/31/94	0.002	6.3	366	10.9																	RAIN IN A.M. = ~.10". LO
Sep-94	09/21/94	0.001	7.9	476	10.4	236			242	290	0	3	4	69	17 <	1	3		0.05	0.07	0.04	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.013	6.6	332	4	180			194	179 <	2 <	1	30	58.7	11.4	0.6	1.5	-3.2 <	0.01	0.1 <	0.005	
Jul-95	07/27/95	0.02	7.4	389	6	220			216	205 <	2	1 <	10	62.5	14.5	0.4	1.6	3.1	0.02 <	0.01 <	0.005	
Aug-95	08/23/95	0.001	6.47	373	9																	
Sep-95	09/28/95	0.004	7.3	238	6.39	220			225	212 <	2 <	1 <	4	64.3	15.6	0.6	1.5	3.8 <	0.01 <	0.01 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
Feb-96																						
Mar-96																						
Apr-96																						
May-96																						
Jun-96	06/12/96	0.006	7.23	475	7	213			229	213	2 <	1	10 <	66.9	15	0.3	1.6	4.1	0.01 <	0.01 <	0.005	
Jul-96	07/23/96	0.003	8.04	376	8	226			247	224	2 <	1	10 <	71	16.9	0.6	1.7	5.4	0.01 <	0.07	0.005	
Aug-96	08/19/96	0.002	7.57	273	9																	
Sep-96	09/30/96	0.0009	7.6	433	9	235			267	226	2 <	1	10 <	77.3	17.9	0.6	1.7	8.4	0.08	0.2	0.043	
Oct-96																						
Nov-96																						
Dec-96																						
Jan-97																						
Feb-97																						
Mar-97																						
Apr-97																						
May-97																						
Jun-97	06/17/97	0.03	8.4	403	5.5	204			214	206	2 <	1	10 <	63.2	13.7	0.3	1.5	2	0.01 <	0.02	0.005	
Jul-97	07/30/97	0.003	8.02	438	7	220			220	210	10 <	0.5 <	5 <	63	15	0.8	1.6	3.1	0.01 <	0.02	0.005	
Aug-97	08/13/97	0.006	7.42	440	7																	
Sep-97	09/16/97	0.001	7.82	386	10	250			220	200	10 <	0.5 <	5 <	60	18	0.9	1.8	6.7	0.01 <	0.08	0.006	
Oct-97																						
Nov-97																						
Dec-97																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 751 | Property: Star Point | Location: 700' S 375' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9890

Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86																							
Jun-86	06/11/86	0.02				203																	
Jul-86																							
Aug-86																							
Sep-86																							
Oct-86	10/10/86	0				227																	
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87	05/19/87	0.03																					
Jun-87																							
Jul-87	07/19/87	0.01																					
Aug-87	08/12/87	0.01																					
Sep-87	09/22/87	0				206																	
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/02/88	0.03				214																	
Jul-88	07/15/88	0.01				228																	
Aug-88	08/19/88	0																					
Sep-88	09/05/88	0				226																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/06/89	0.01				218																	
Jul-89	07/11/89	0				238																	
Aug-89	08/22/89	0																					
Sep-89	09/15/89	0				228																	
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90	05/30/90	0.01				242																	
Jun-90																							
Jul-90	07/02/90	0.01				218																	
Aug-90	08/30/90	0																					
Sep-90																							
Oct-90	10/03/90	0				226																	
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/13/91	0.03	7.6	430	4	216			194	227	12	1	2	58	12	1	1	<	0.02	0.18 <	0.01		
Jul-91	07/15/91	0.01	7.6	470	10	238			221	256	2	2	2	67	13 <	1	2	<	0.02 <	0.02 <	0.01		
Aug-91																							
Sep-91	09/18/91	0	7.7	460	8	232			212	251	0	1	23	62	14 <	1	1		0.12	0.15	0.07		
Oct-91																							
Nov-91																							
Dec-91																							

Cyprus Plateau Mining Company - Water Quality Data

Print Date: February 26, 1998

Station: 751 | Property: Star Point | Location: 700' S 375' W of NE corn. Sec 14, T15S, R7E | Station Type: Spring | Sampling Frequency: Quarterly | Formation: North Horn | Elevation: 9890

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80																						
Sep-80	09/30/80	0				186																
Oct-80	10/23/80	0				249																
Nov-80	11/10/80	0				210																
Dec-80	12/30/80	0				218																
Jan-81	01/06/81																					IN-ACCESSIBLE - SNOW
Feb-81	02/04/81																					IN-ACCESSIBLE - SNOW
Mar-81	03/25/81																					IN-ACCESSIBLE - SNOW
Apr-81	04/28/81																					IN-ACCESSIBLE - SNOW
May-81	05/28/81																					IN-ACCESSIBLE - SNOW
Jun-81	06/17/81	0.01				206																
Jul-81						198																
Aug-81	08/29/81	0				225																
Sep-81						210																
Oct-81	10/07/81	0				233																
Nov-81																						
Dec-81	12/29/81																					IN-ACCESSIBLE
Jan-82																						
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82																						
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	03/24/83																					IN-ACCESSIBLE
Apr-83																						
May-83	05/12/83																					IN-ACCESSIBLE - SNOW
Jun-83	06/29/83																					IN-ACCESSIBLE - SNOW
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83	10/04/83	0				199																
Nov-83																						
Dec-83																						
Jan-84	01/06/84																					COVERED BY SNOW - N
Feb-84																						
Mar-84	03/30/84																					COVERED BY SNOW - N
Apr-84																						
May-84																						
Jun-84	06/21/84	0.01				192																
Jul-84																						
Aug-84																						
Sep-84																						
Oct-84	10/25/84	0				251																
Nov-84																						
Dec-84	12/11/84																					IN-ACESSIBLE - SNOW
Jan-85																						IN-ACESSIBLE - SNOW
Feb-85	02/21/85																					
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/13/85	0.01				202																
Jul-85																						
Aug-85																						
Sep-85	09/24/85	0				255																
Oct-85																						
Nov-85																						
Dec-85																						