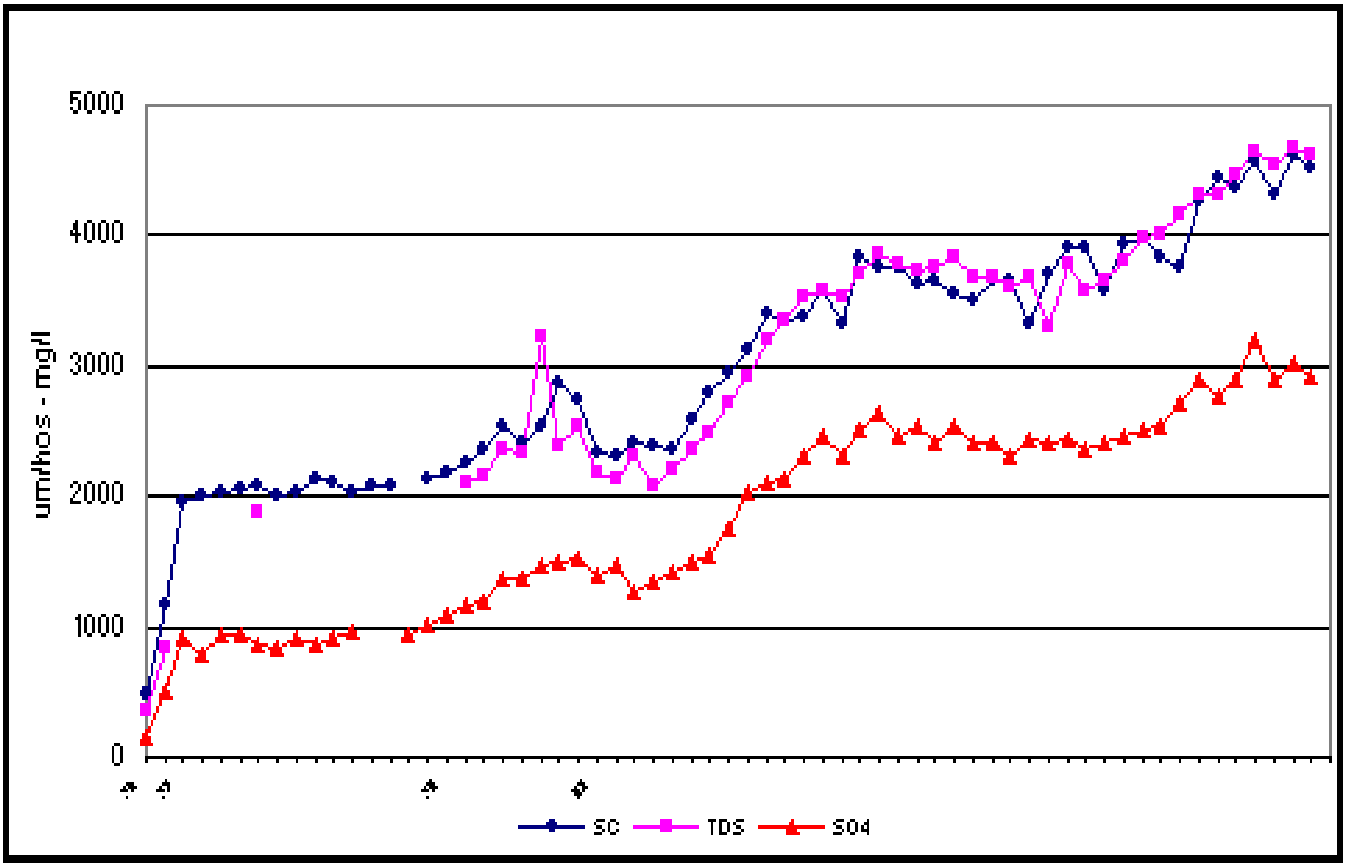
APPENDIX - A

	1&2 FLY ASH POND A			1&2 FLY ASH POND B			1&2 BRINE PONDS			3&4 Effluent Holding Pond Clearwell			3&4 BOTTOM ASH POND		
	Range			Range			Range			Range			Range		
	Low	**High**	**Average**	**Low**	**High**	**Average**	**Low**	**High**	**Average**	**Low**	**High**	**Average**	**Low**	**High**	**Average**
PHYSICAL PARAMETERS															
Spec. Cond. (umhos/cm)	7730	14400	11122	9720	20400	15060	52800	97000	70159	10800	22900	16619	2740	9280	4229
pH Lab (s.u.)	3.9	7.4	5.3	5.0	6.5	5.8	6.5	7.9	7.5	3.2	8.4	6.9	6.4	11.8	9.8
TDS @ 180deg.C	11209	21400	15795	14200	29400	21800	111500	272000	188395	13900	36000	25471	1990	5180	3200
Sodium Adsorption Ratio	1.2	3.0	1.5	-	-	-	17.3	42.0	33.0	2.5	4.4	3.3	4.8	13.0	8.5
COMMON IONS															
Total Hardness as CaC03	7400	14400	10420	-	-	-	11670	121000	75560	9800	24300	16600	643	1540	985
Calcium (Ca)	375	670	523	469	485	477	200	1426	736	445	625	524	188	615	352
Magnesium (Mg)	1470	3160	2224	1840	4070	2955	8740	30300	19105	2010	5530	3688	<1	200	44
Sodium (Na)	204	768	389	628	1080	854	13800	34600	23015	570	1570	1044	359	1200	590
Potassium (K)	8	46	20	-	-	-	560	6280	3130	20	83	58	7	35	18
Alkalinity as CaC03 Lab	0	65	15	-	-	-	250	3590	1000	0	211	98	41	1160	270
Bicarbonate (HC03 Lab)	0	79	18	-	-	-	300	4380	1180	0	257	117	0	326	63
Sultate (S04)	7400	14250	10778	9720	20000	14860	62400	159000	115044	10400	26600	18007	1130	2830	1978
Chloride (Cl)	24	203	93	194	331	263	4250	31900	12995	128	463	259	22	90	46
Fluoride (F)	0.65	8.5	3.2	-	-	-	17	234	111	1.8	12	6	0.3	0.9	0.5
NUTRIENTS															
Nitrate + Nitrite as N	9.6	34.7	19.4	-	-	-	0.10	43.8	10.5	0.06	16.5	7.4	<.05	1	0.3
Ortho-Phosphate (P04-P)	<0.01	0.35	0.1	-	-	-	0.13	227	50	<0.01	0.16	0.1	<0.01	0.14	0.05
TRACE ELEMENTS															
Boron (B) Diss	51	111	80	48.0	96.8	72.4	160	855	372	58	131	98.8	0.4	6.5	2.6
Selenium (Se) Diss	<0.005	0.175	0.055	0.044	0.082	0.063	<0.005	1.050	0.158	0.052	0.480	0.241	<0.005	0.025	0.011

10M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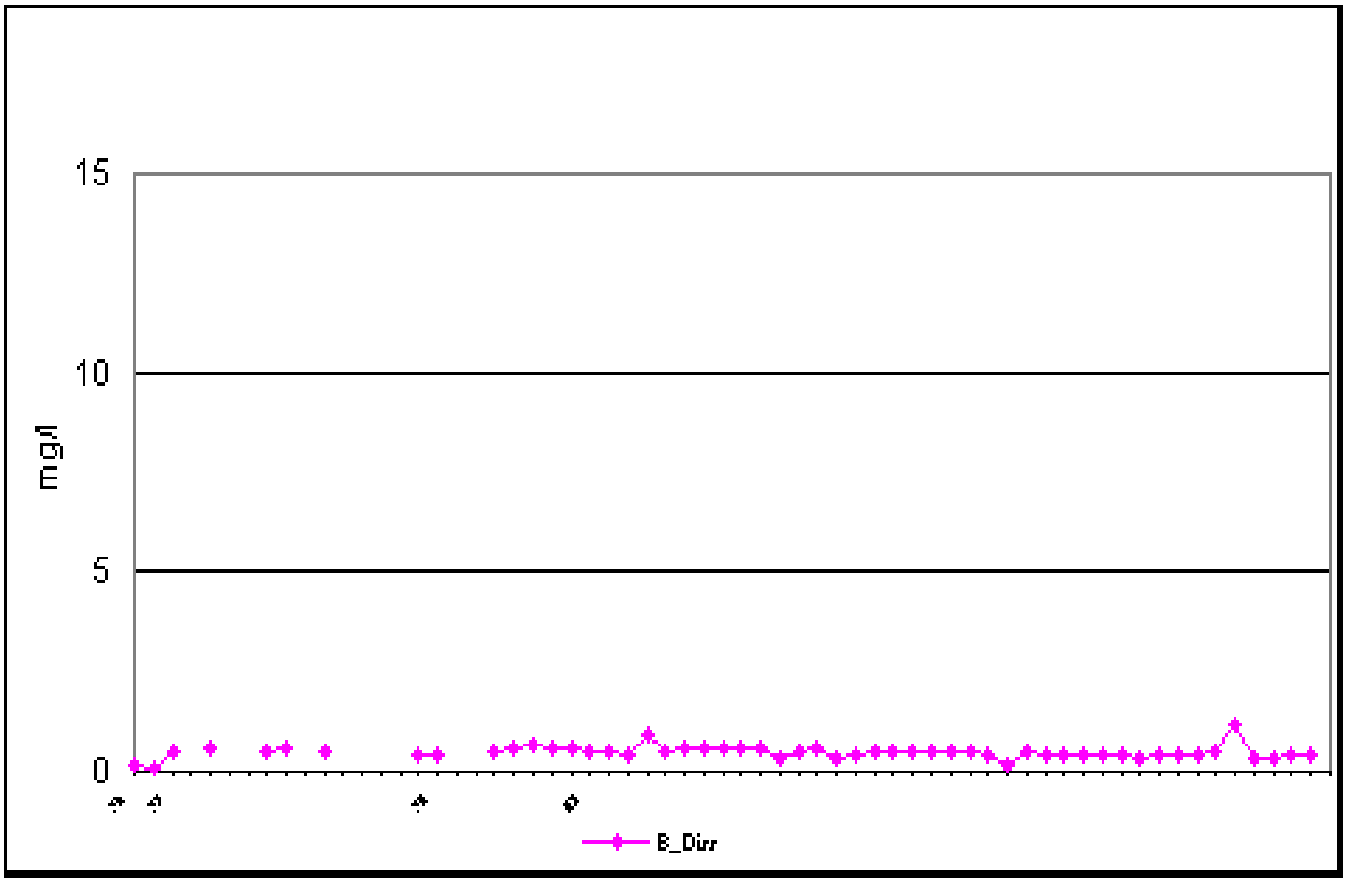
4000
3000
2000
1000
0
umhos - mg/l
SC
TDS
SO4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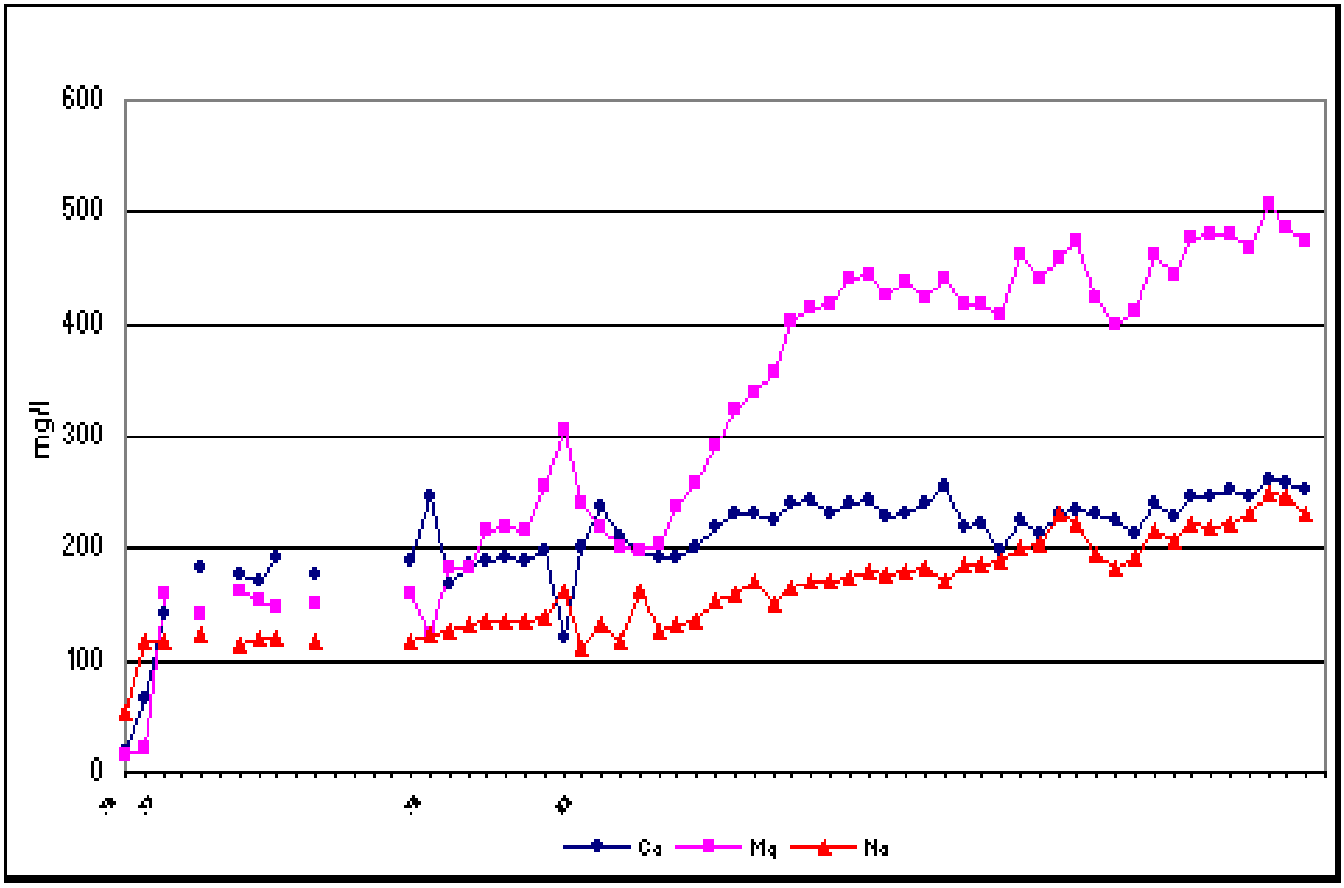
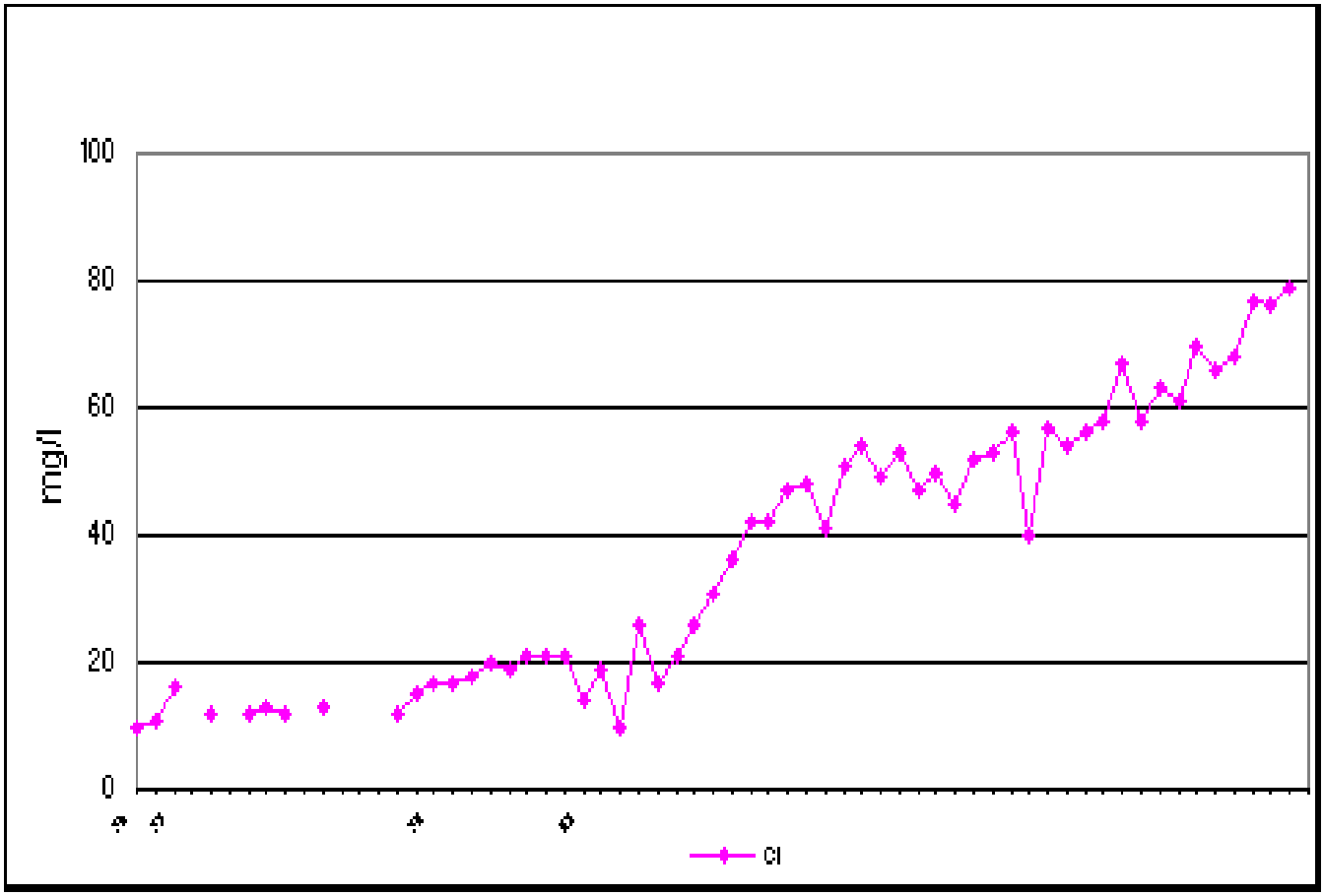
10
5
0
mg/l
B_Dirr

10M





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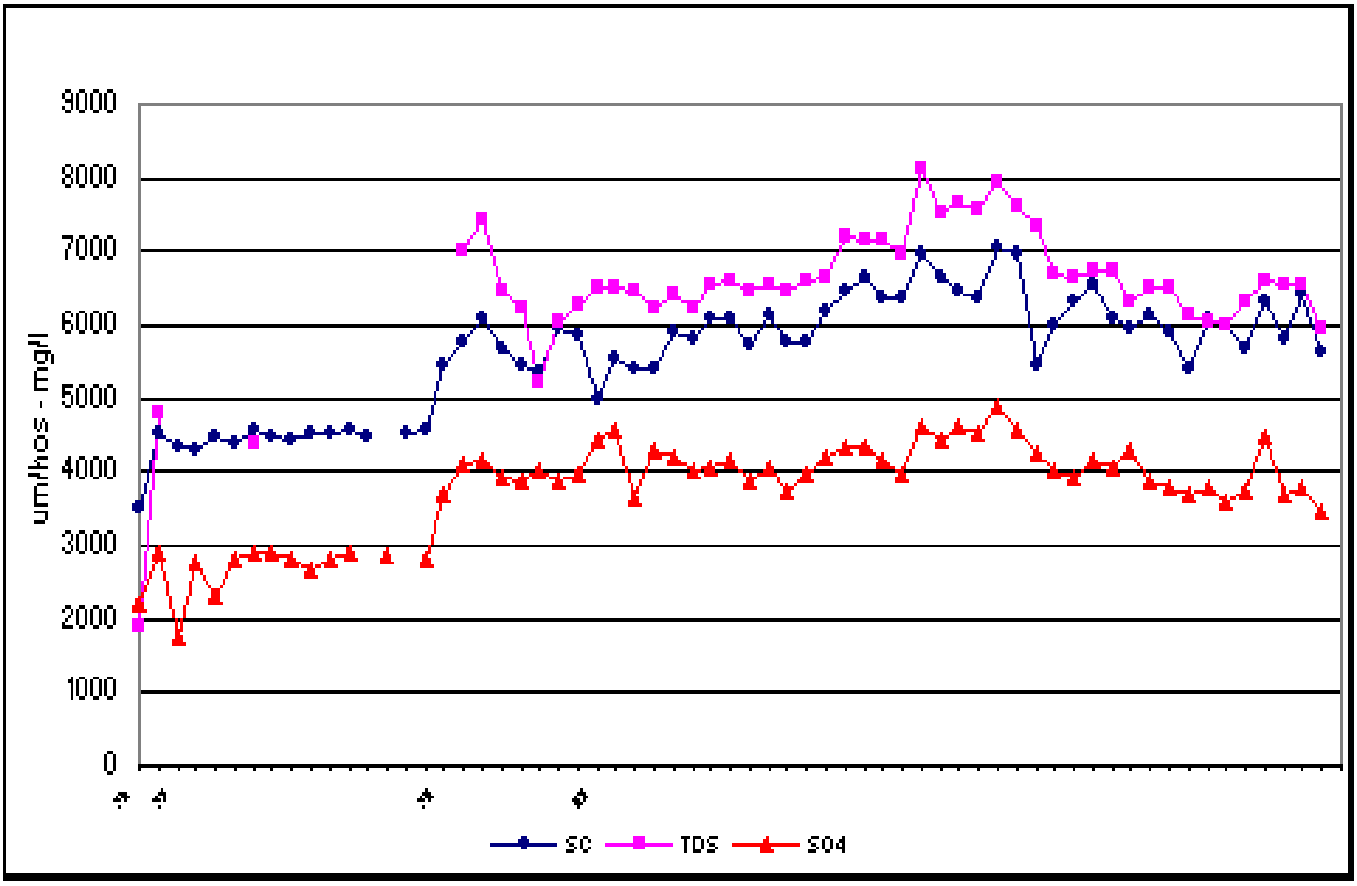
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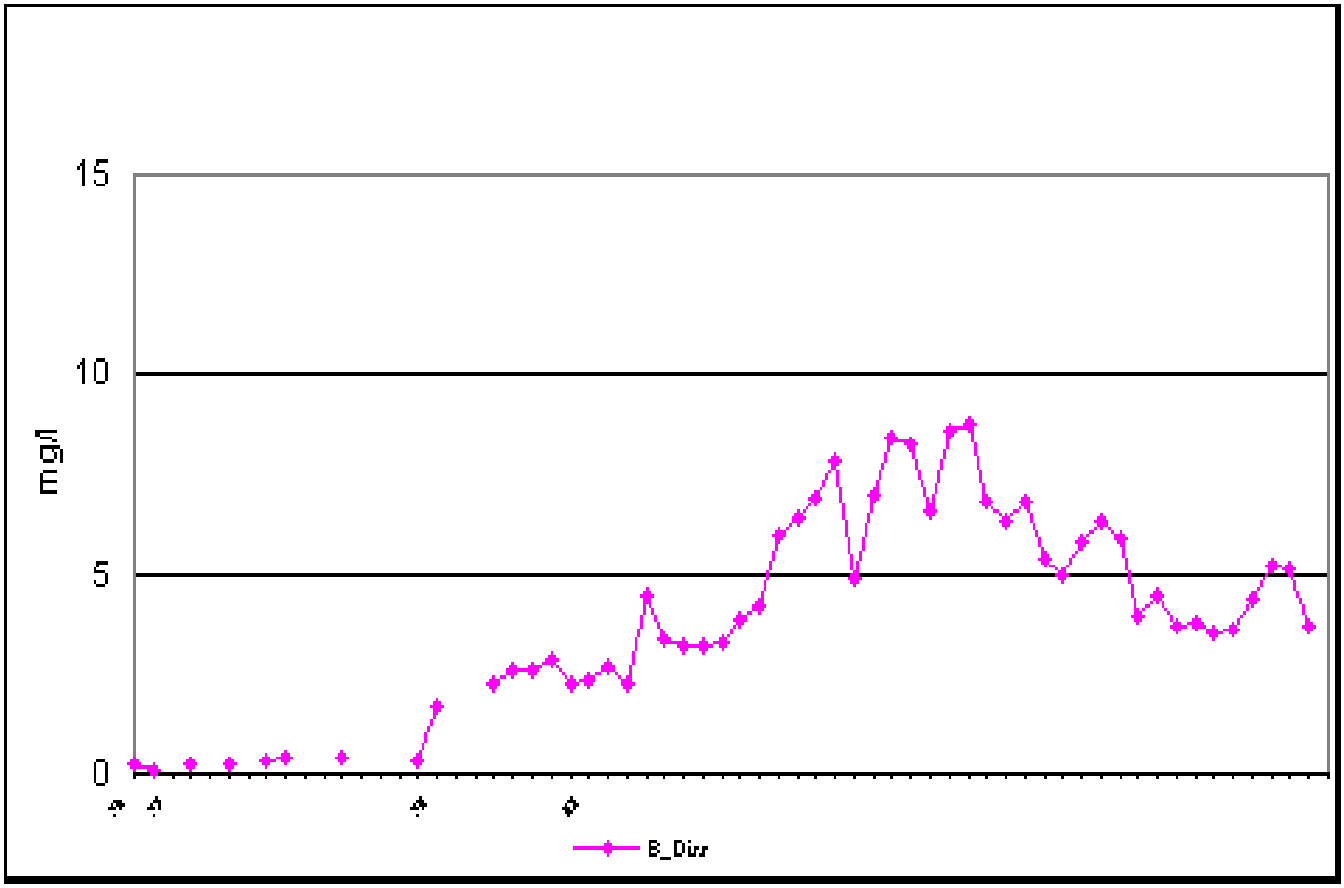
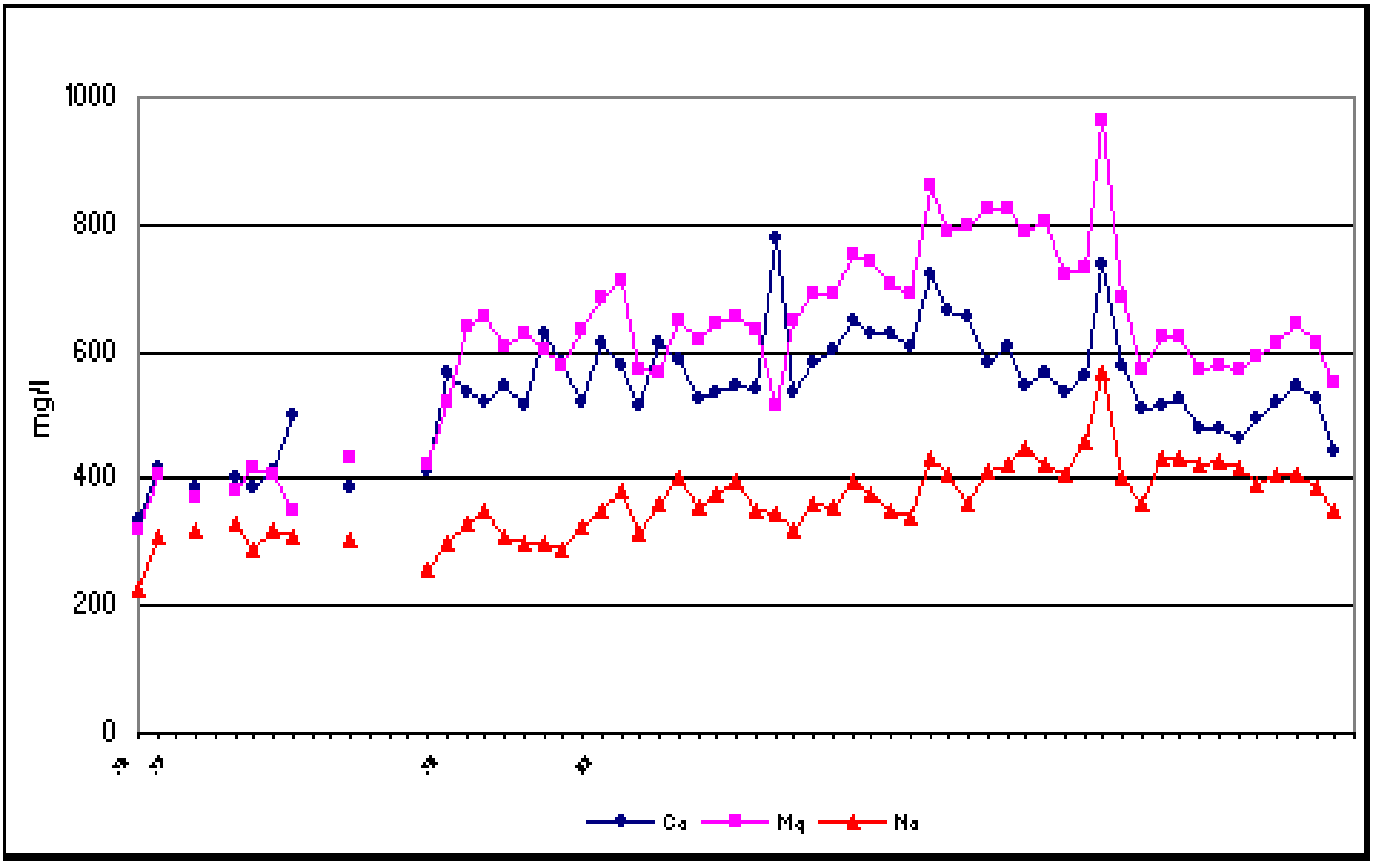
8000
7000
6000
5000
4000
3000
2000
1000
0
umhos - mg/l
SC
TDS
SO4


15
10
5
0
mg/l
B_Diss

10S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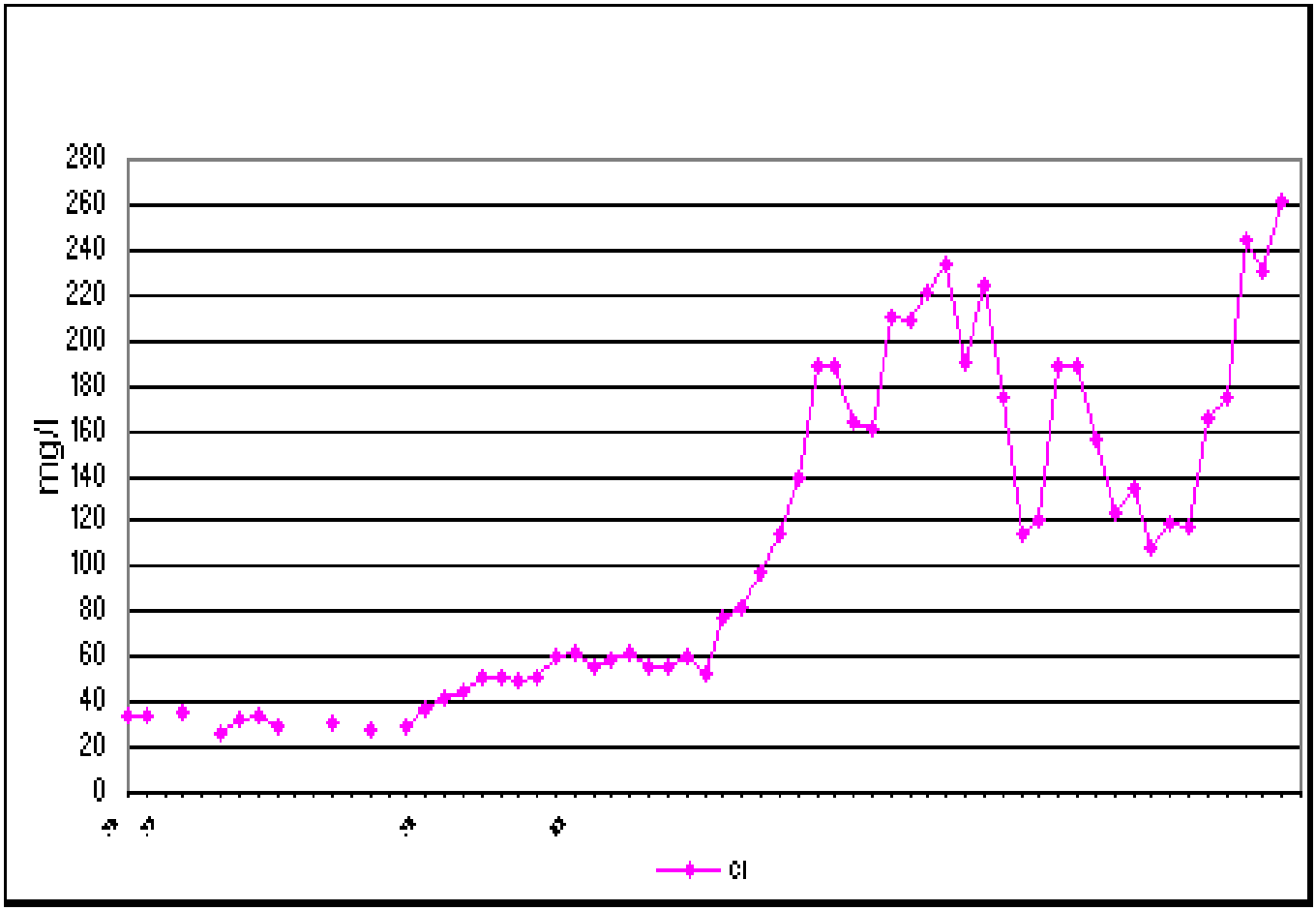
200
0
mg/l
Ca
Mg
Na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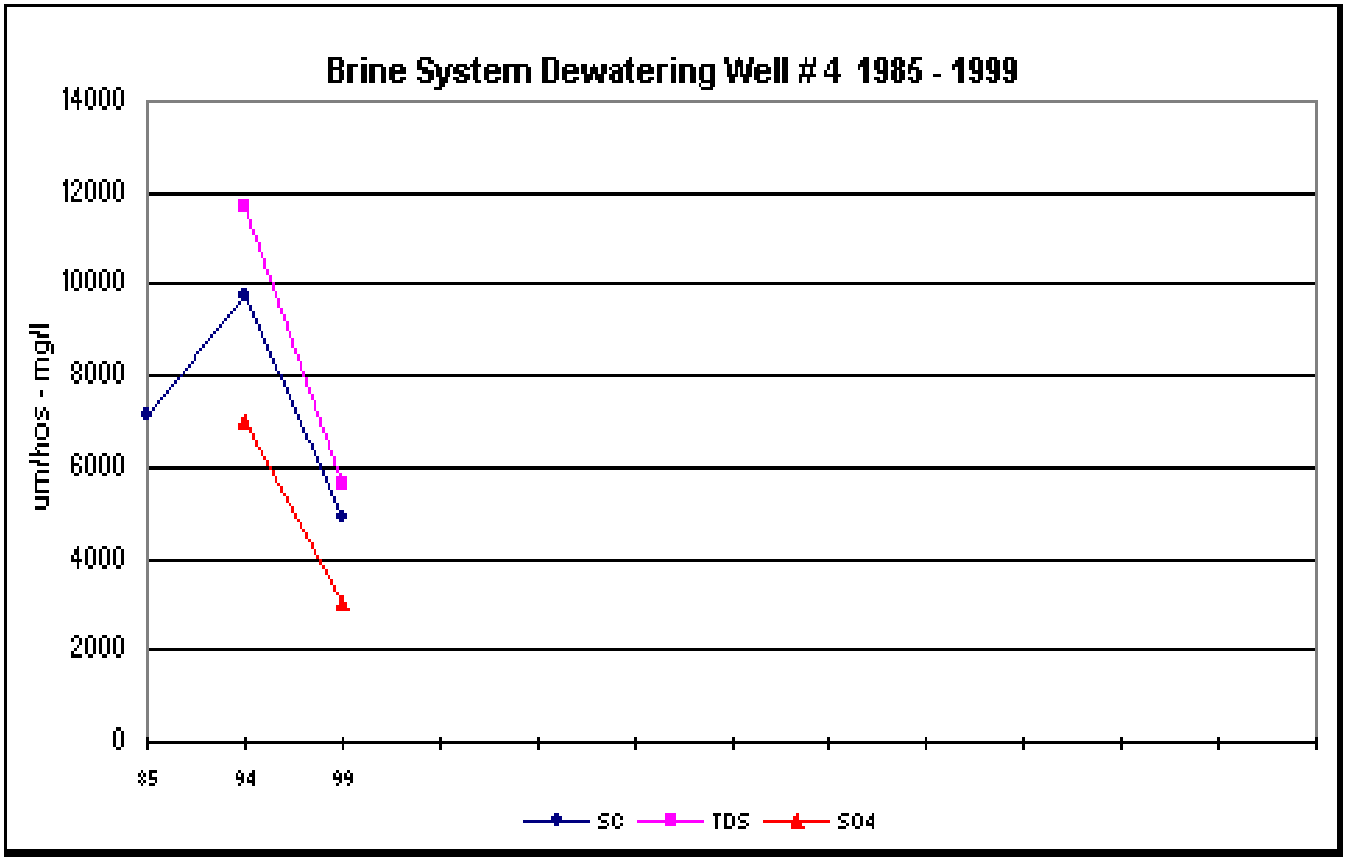
200
180
160
140
120
100
80
60
40
20
0
mg/l
Cl

B4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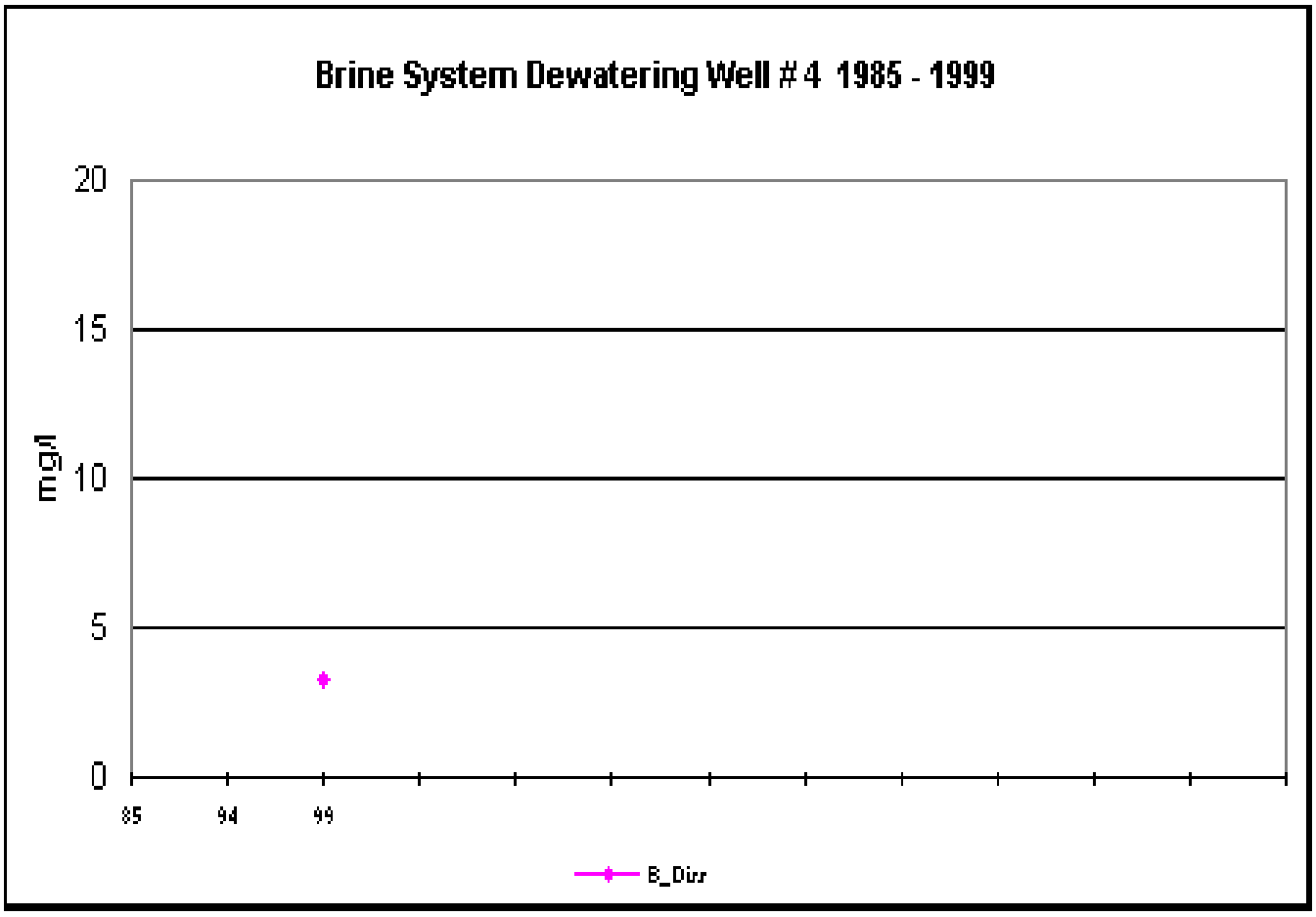
12000
10000
8000
6000
4000
2000
0
umhos - mg/l
85
94
99
SC
TDS
SO4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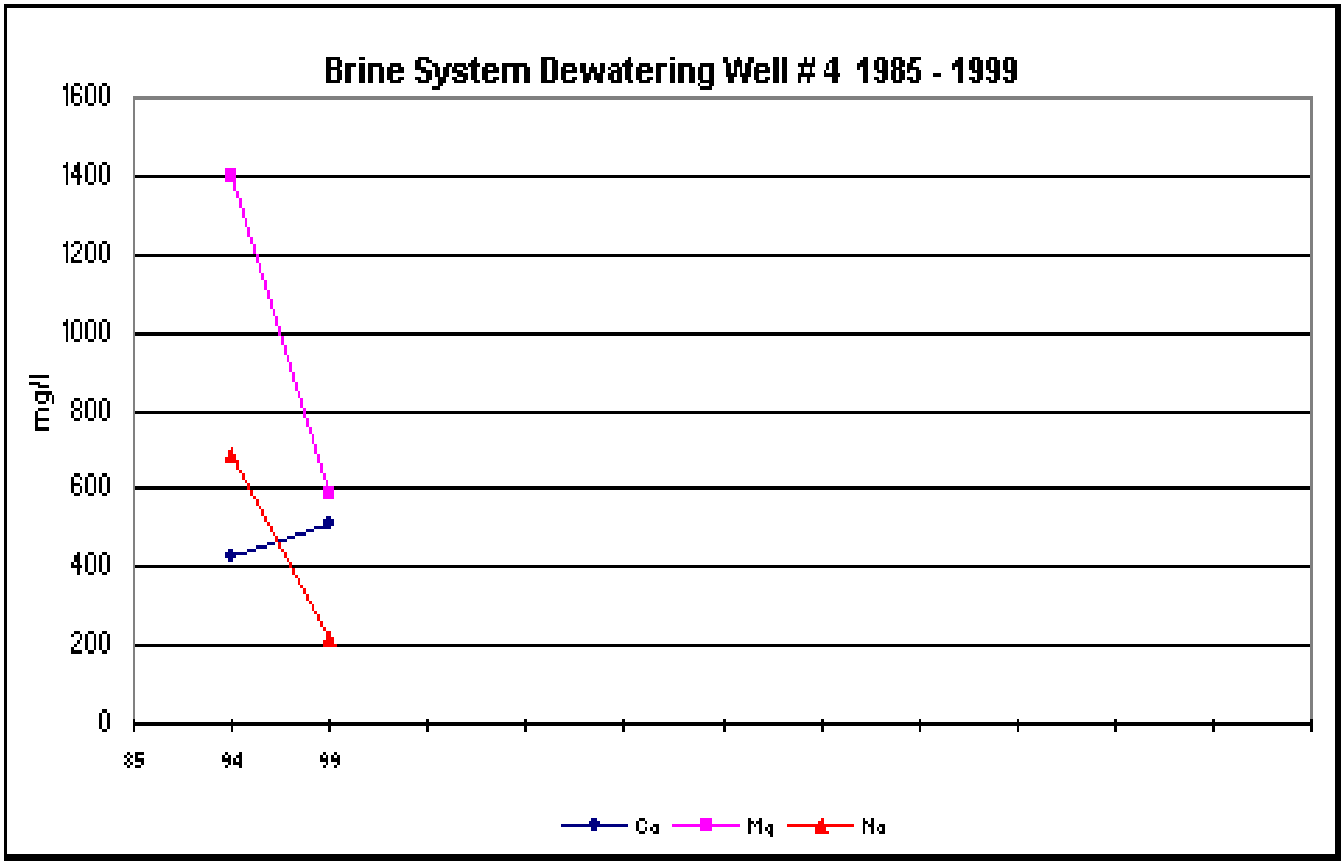
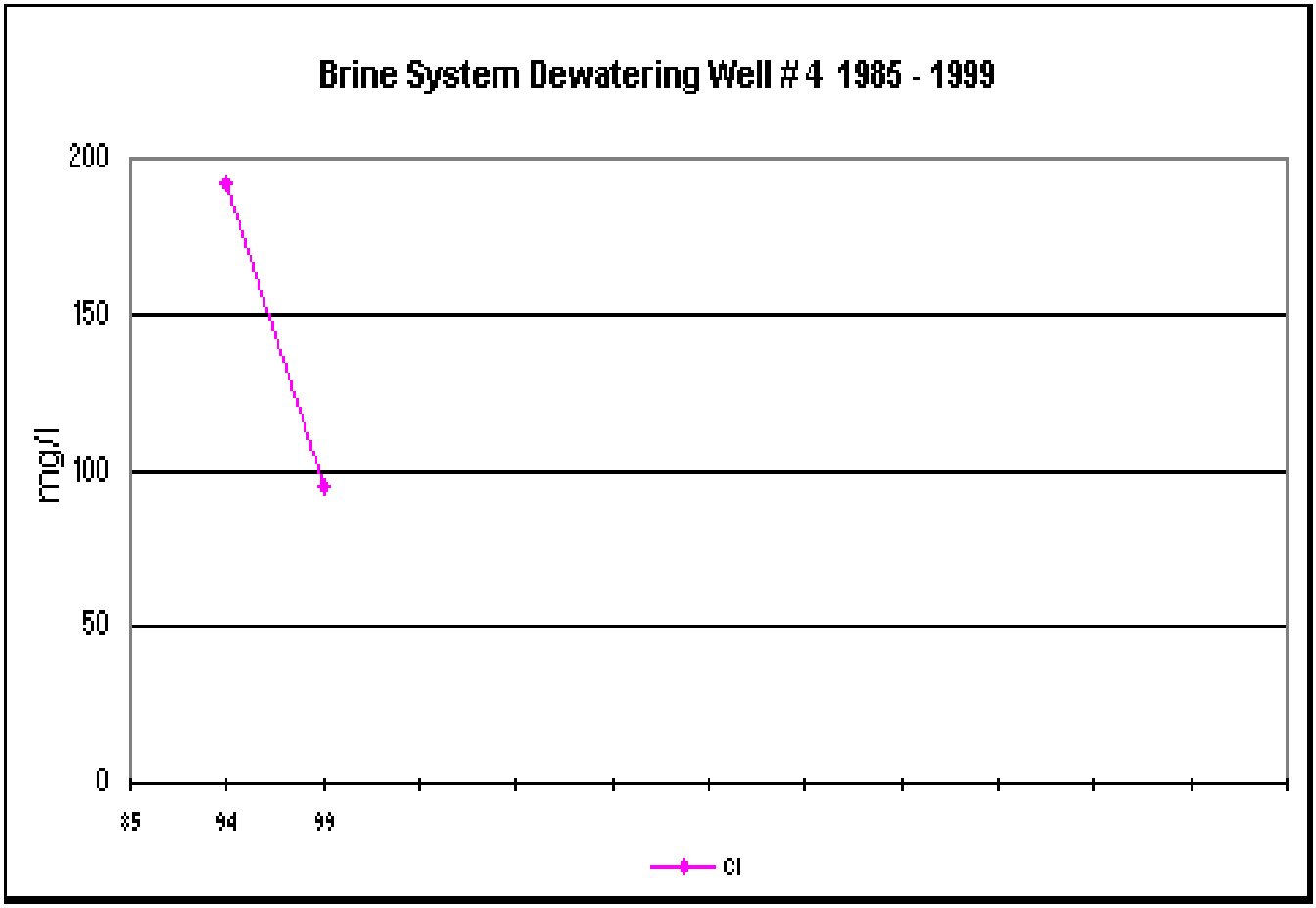
20
15
10
5
0
mg/l
85
94
99
B_Diss


Brine System Dewatering Well # 4 1985 - 1999
1600
1400
1200
1000
800
600
400
200
0
mg/l
85
94
99
Ca
Mg
Na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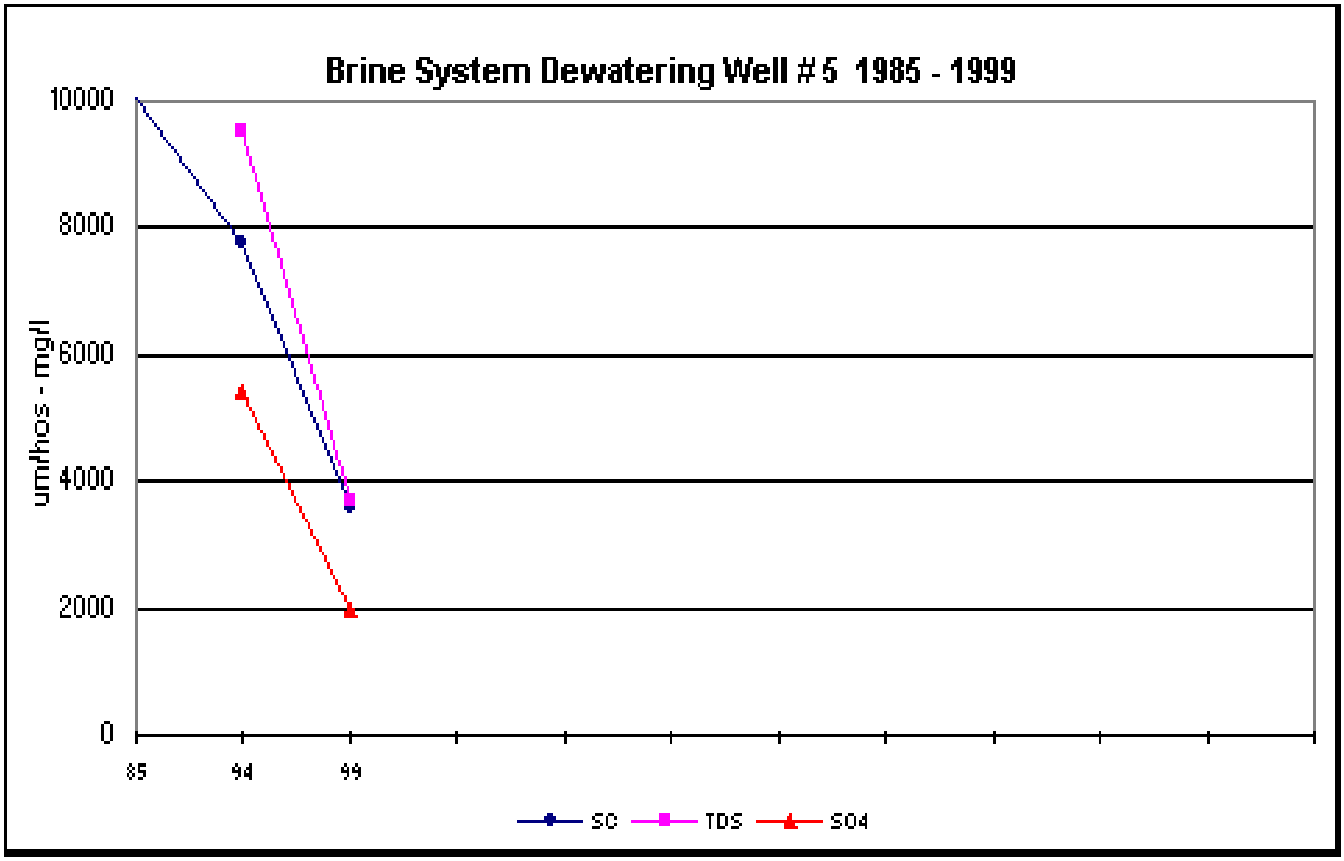
150
100
50
0
mg/l
85
94
99
Cl

B5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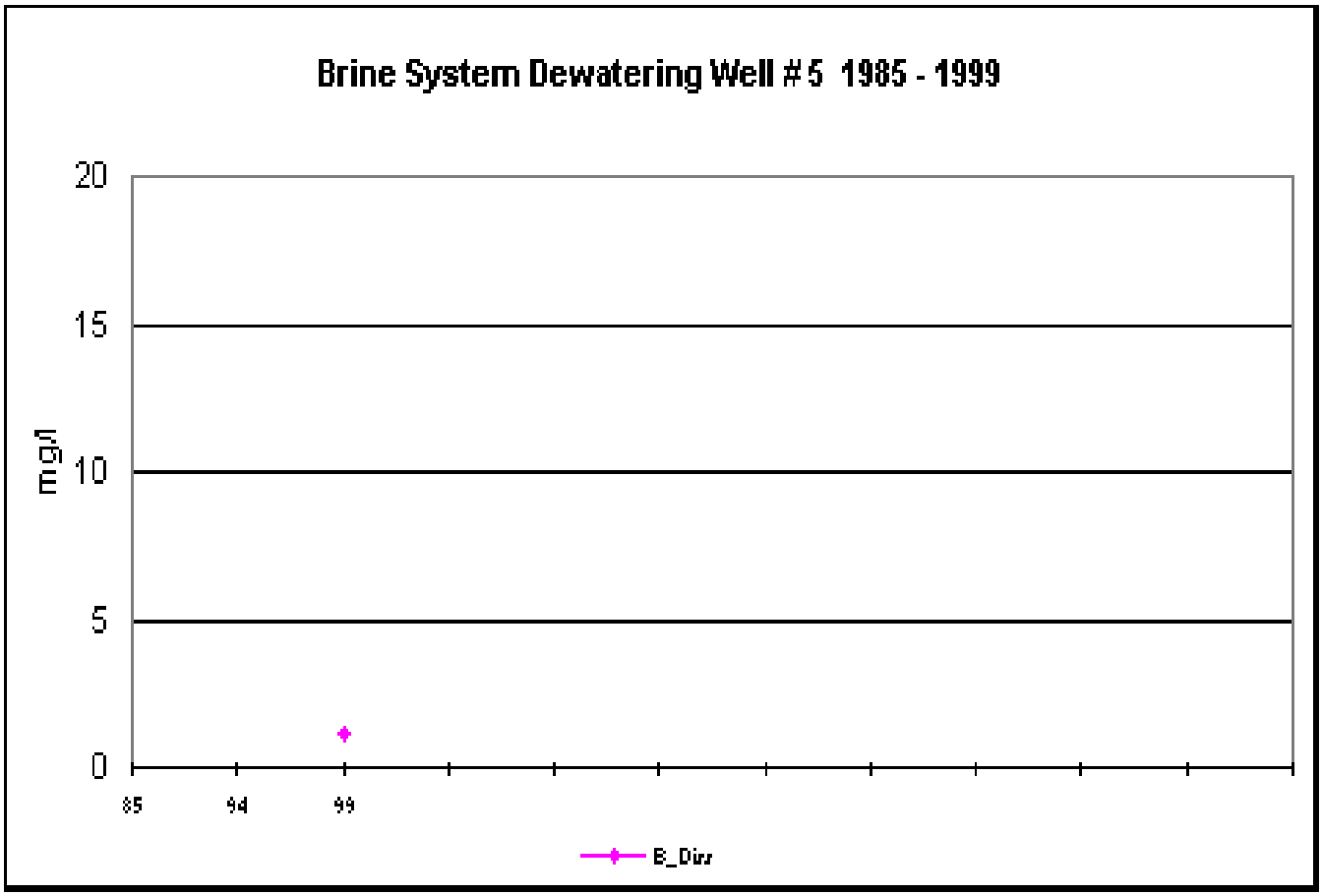
10000
8000
6000
4000
2000
0
umhos - mg/l
85
94
99
SC
TDS
SO4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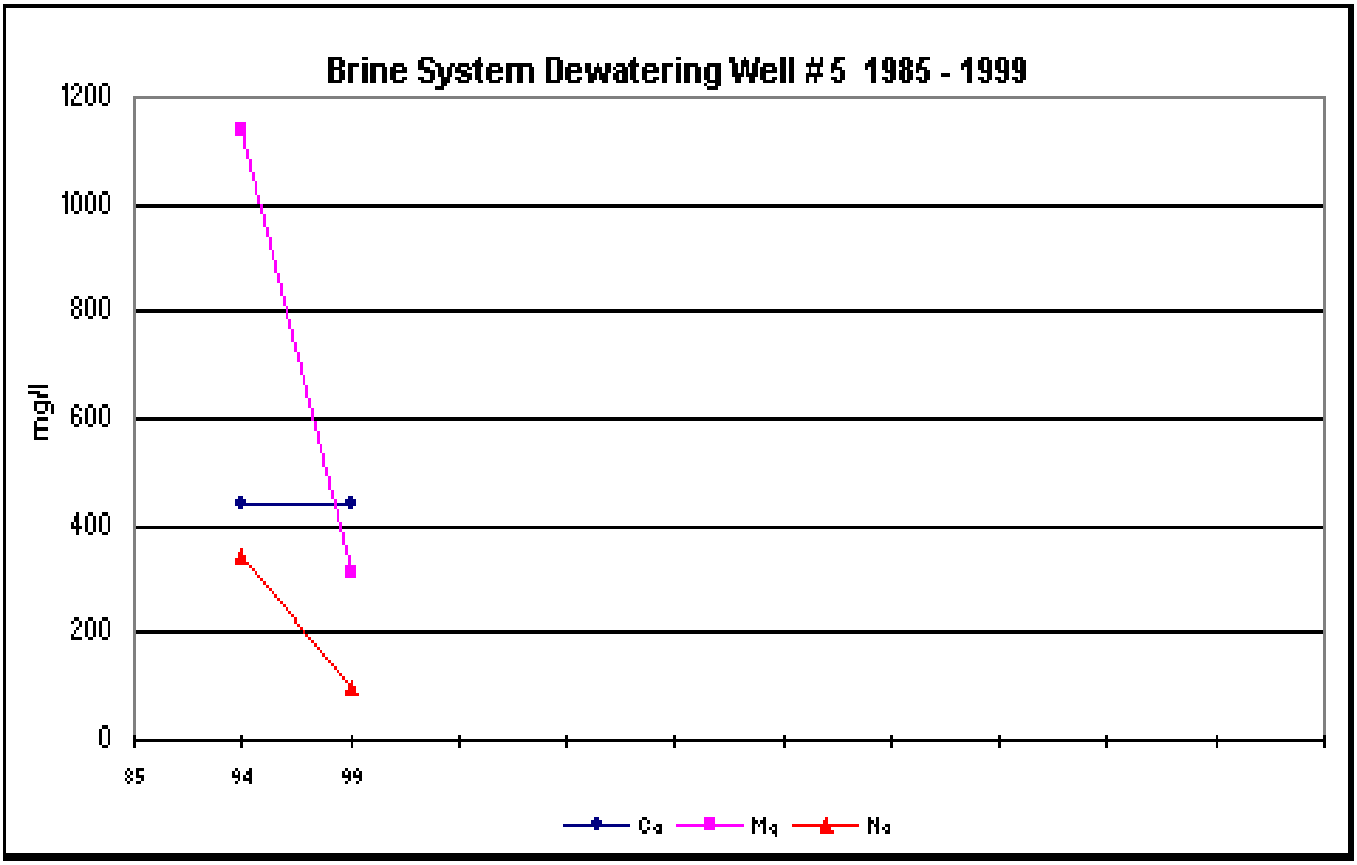
20
15
10
5
0
mg/l
85
94
99
B_Diss

B5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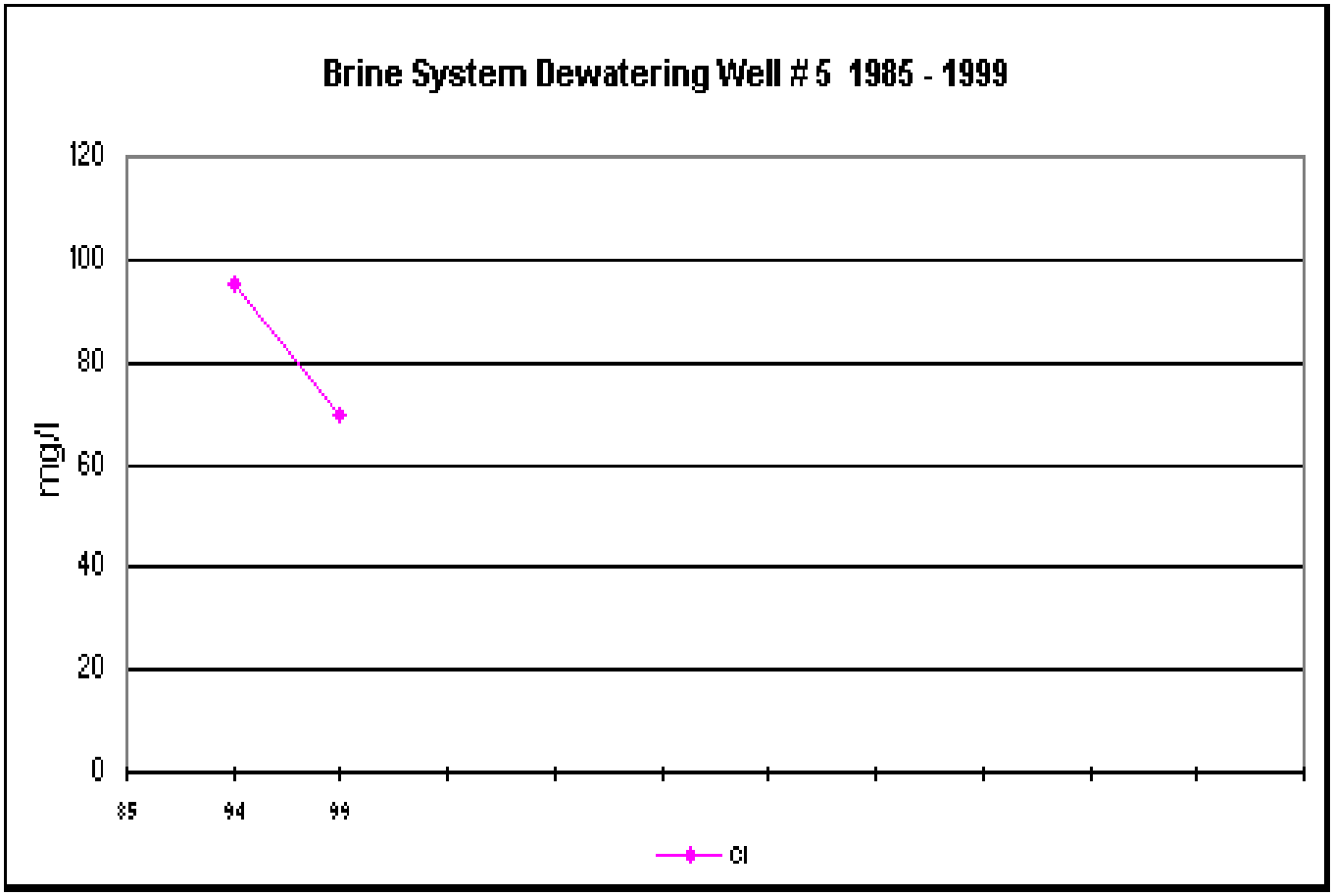
0
mg/l
85
94
99
Ca
Mg
Na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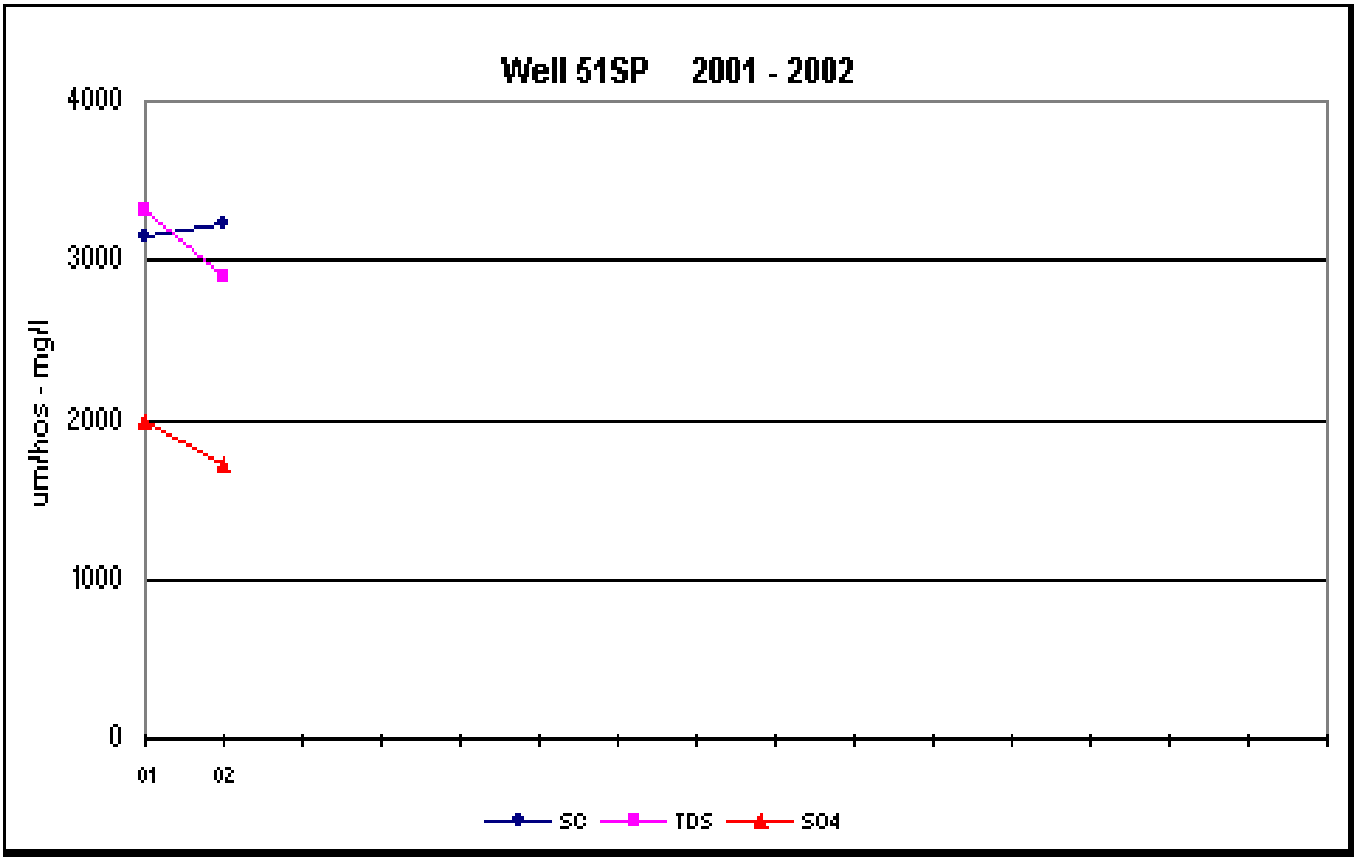
60
40
20
0
mg/l
85
94
99
Cl

51S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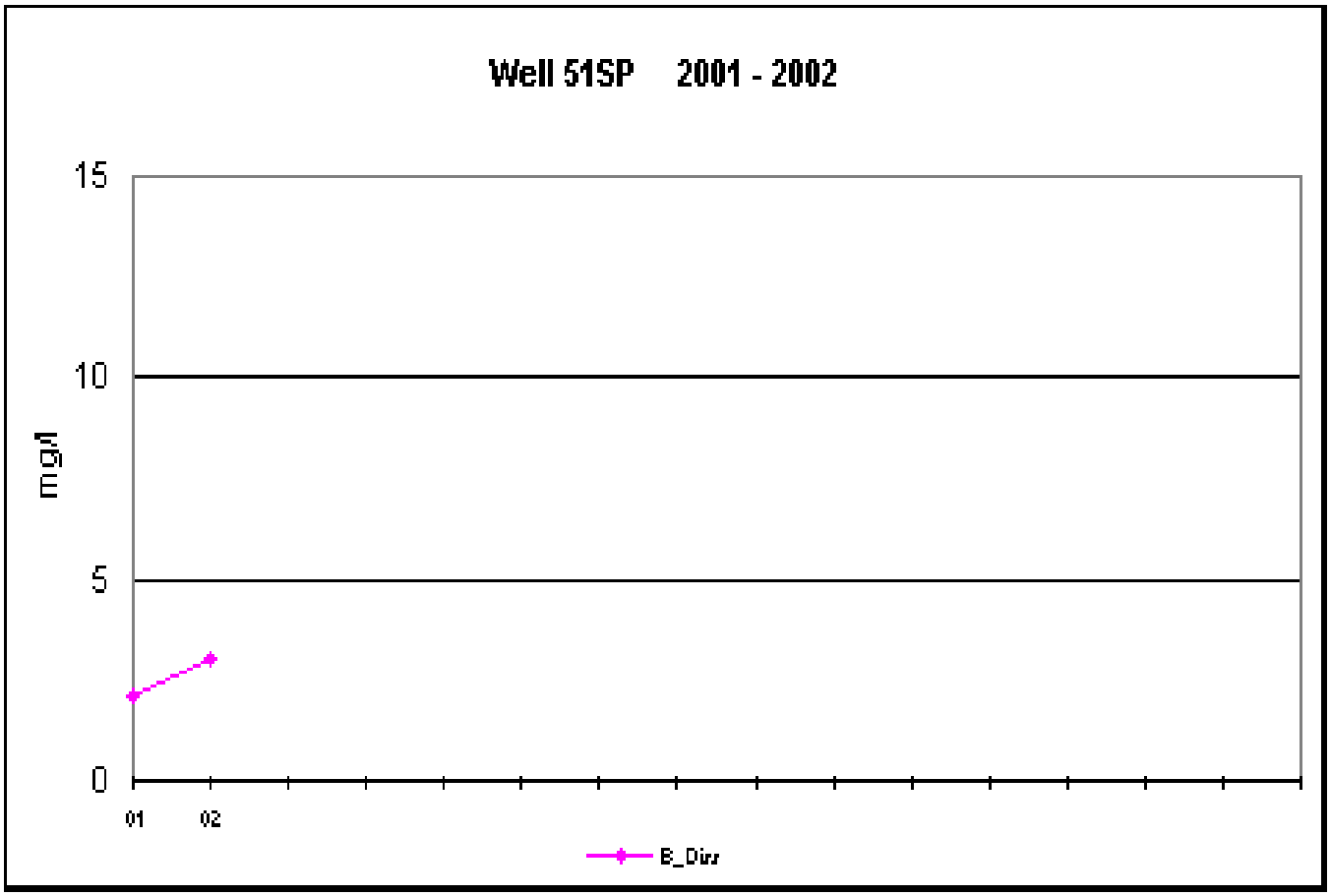
3000
2000
1000
0
um/hos - mg/l
01
02
SC
TDS
SO4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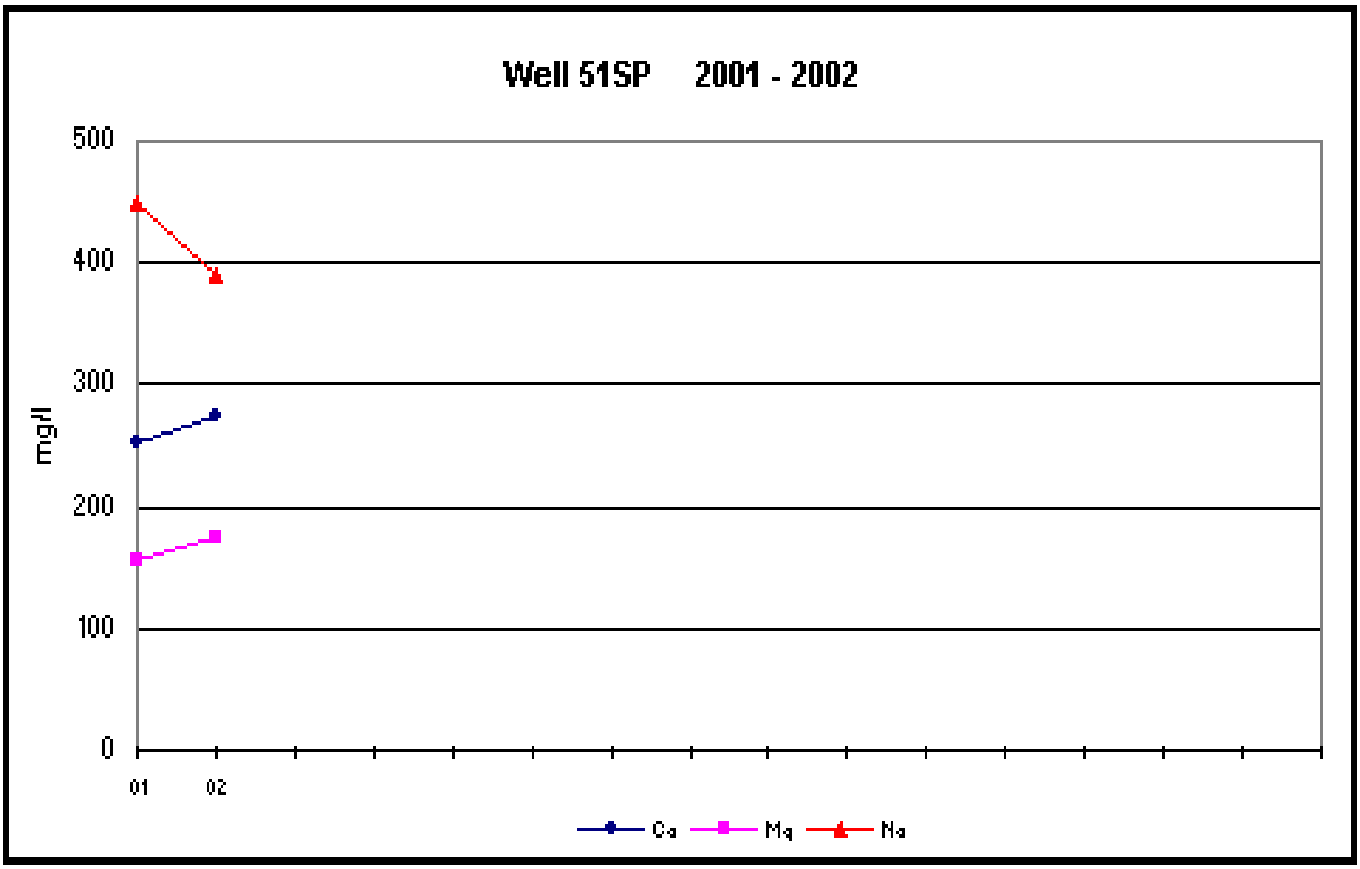
10
5
0
mg/l
01
02
B_Diss

51S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400
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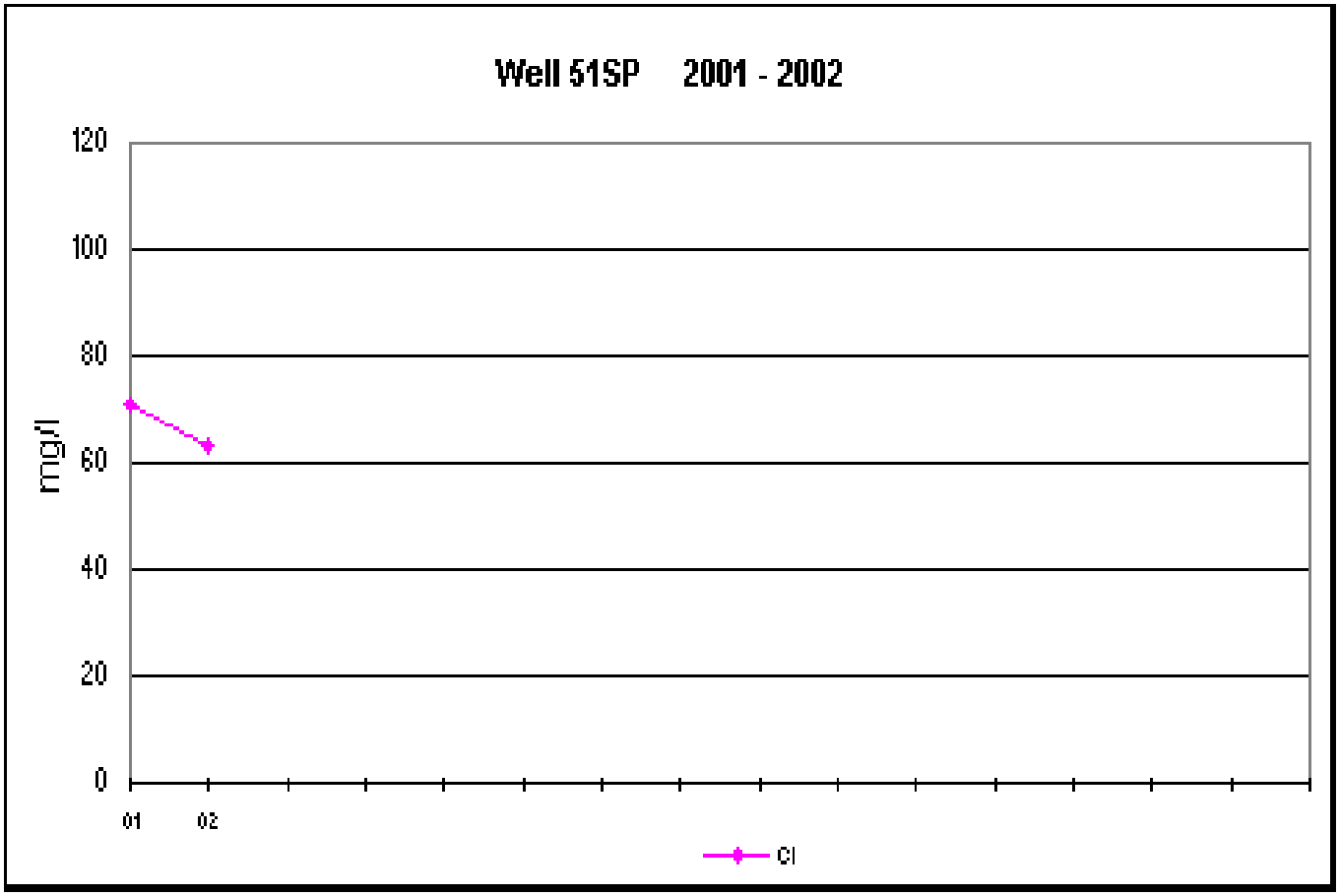
200
100
0
mg/l
01
02
Ca
Mg
Na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100
80
60
40
20
0
mg/l
01
02
Cl

52S

Well 52SP 2001 - 2002
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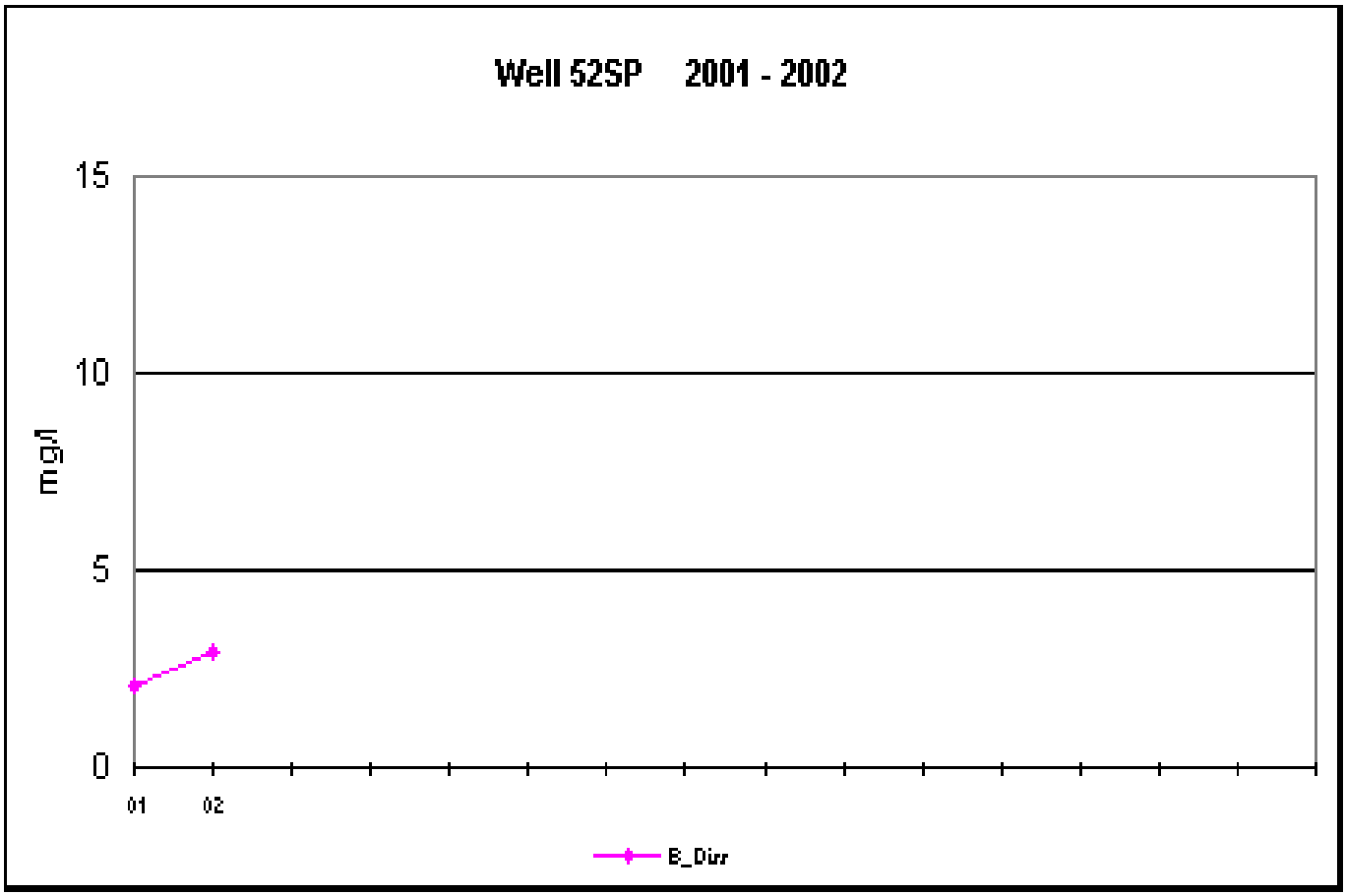
3000
2000
1000
0
umhos - mg/l
01
02
SC
TDS
SO4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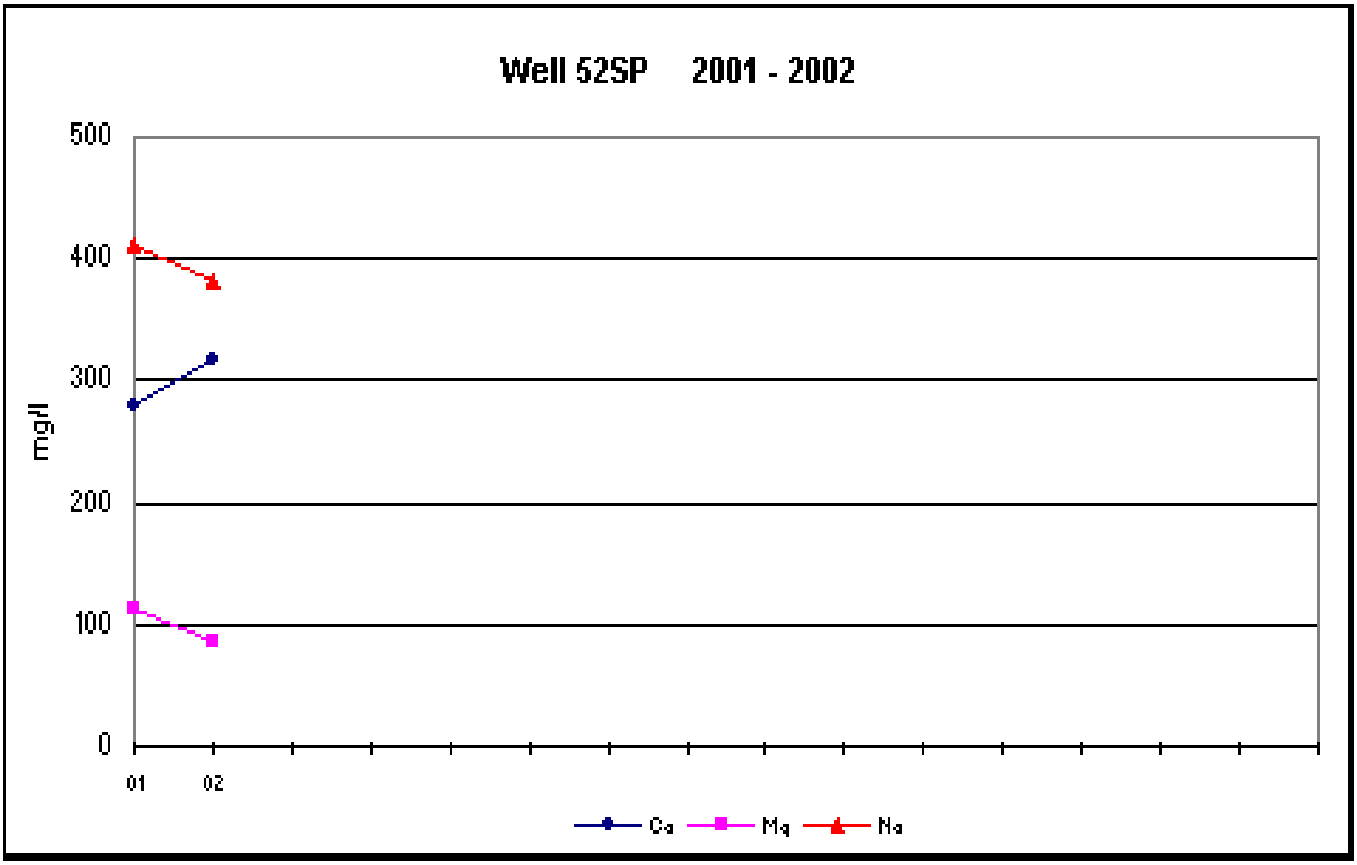
10
5
0
mg/l
01
02
B_Dirr

52S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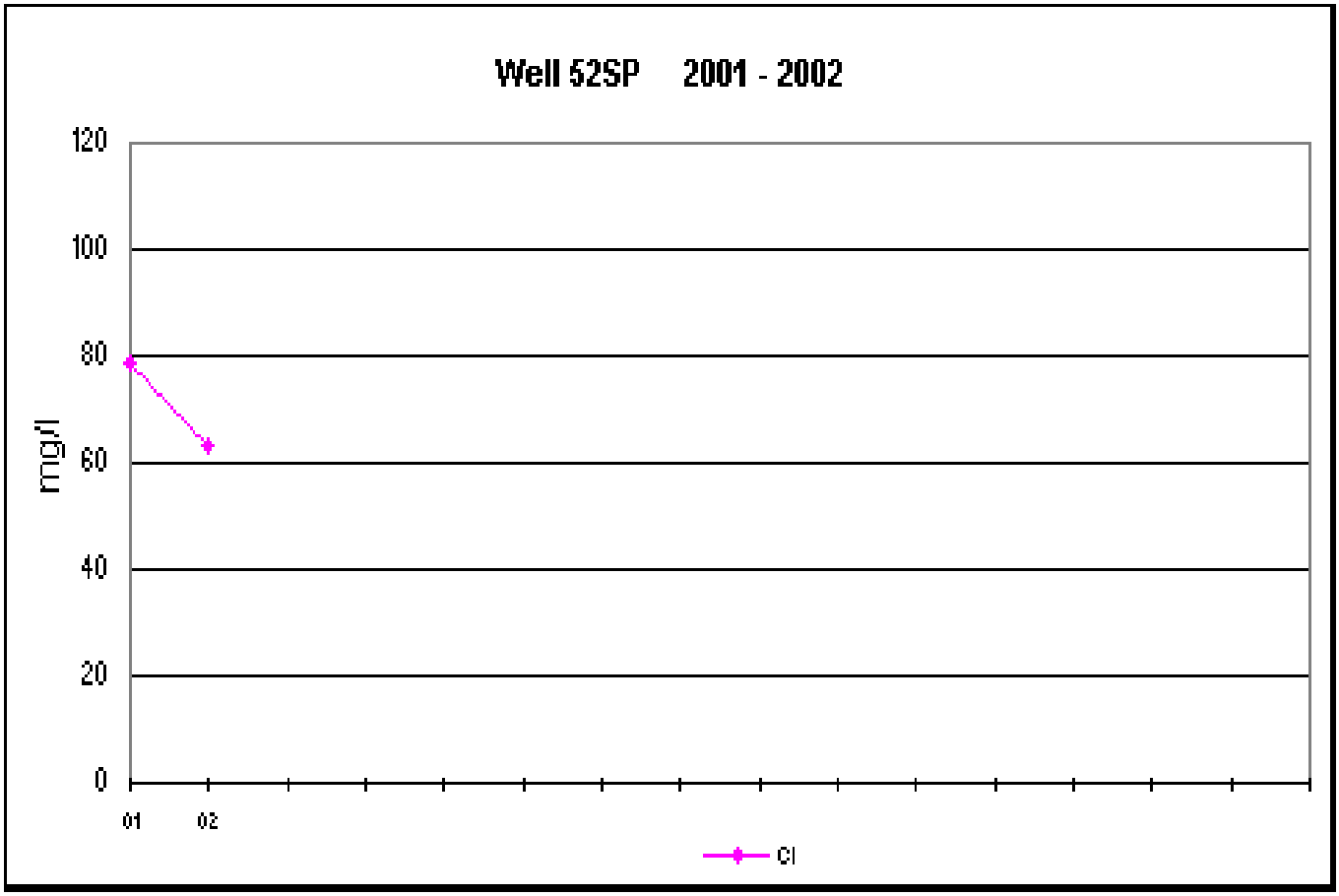
mg/l
01
02
Ca
Mg
Na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60
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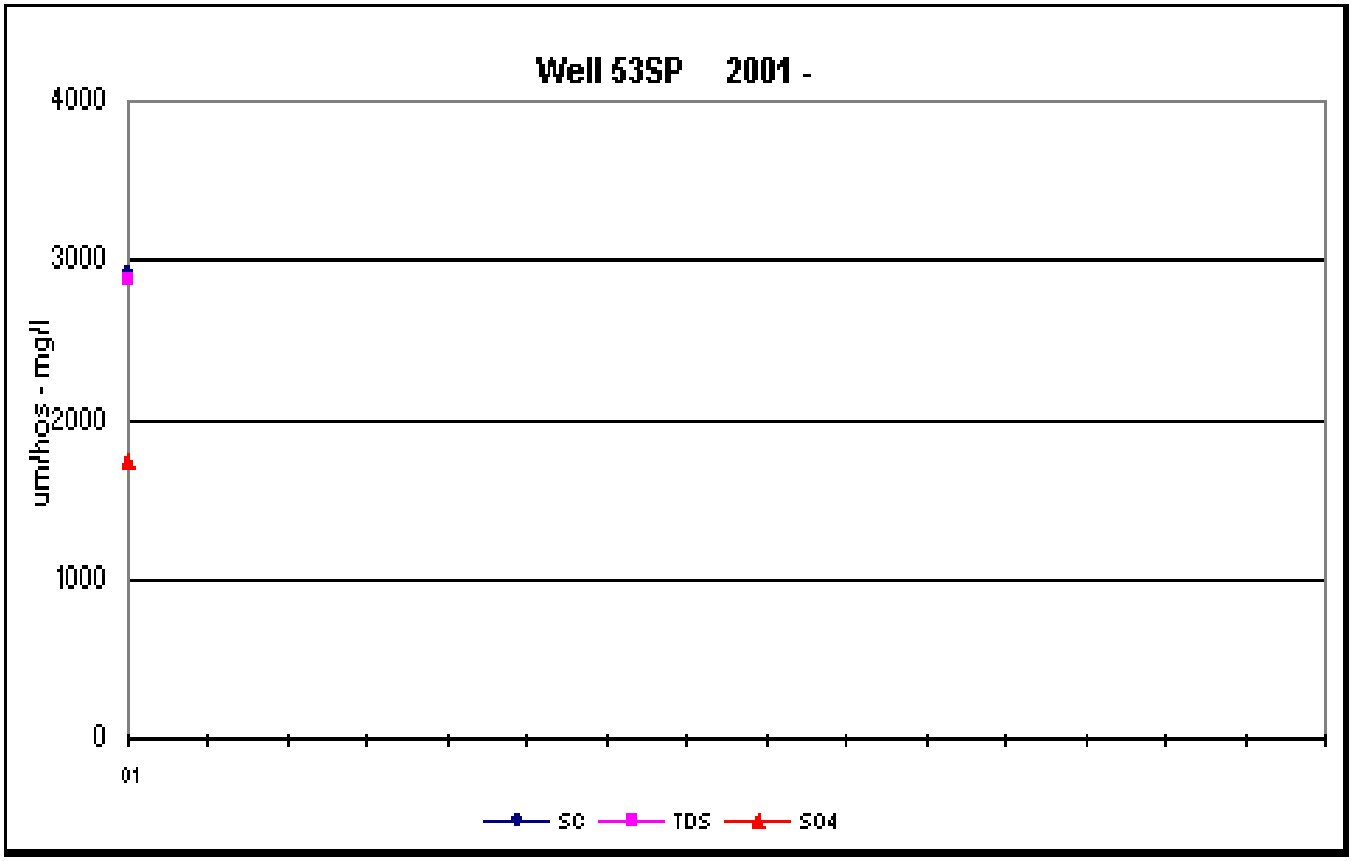
20
0
mg/l
01
02
Cl

53S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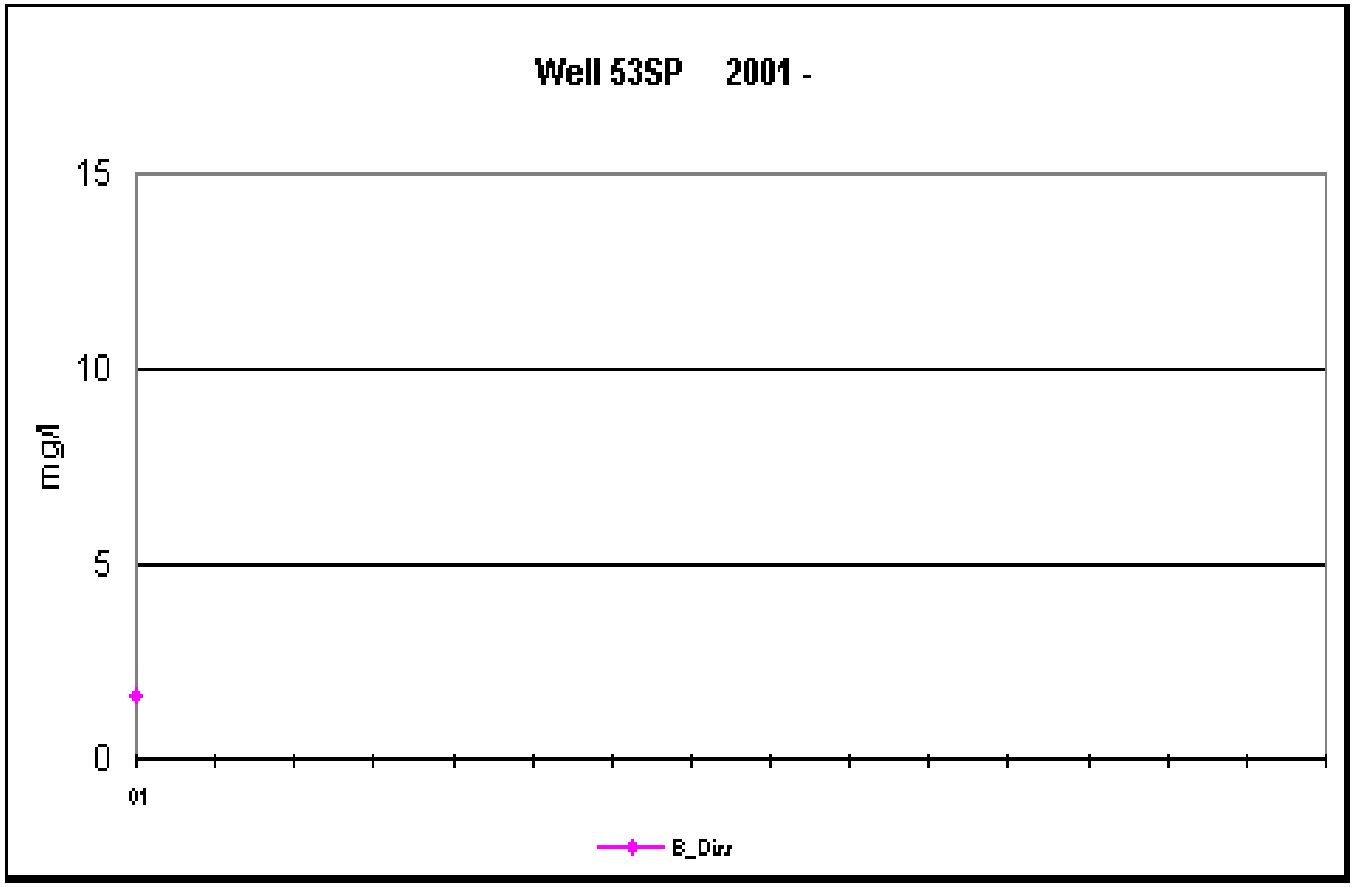
0
umhos - mg/l
01
SC
TDS
SO4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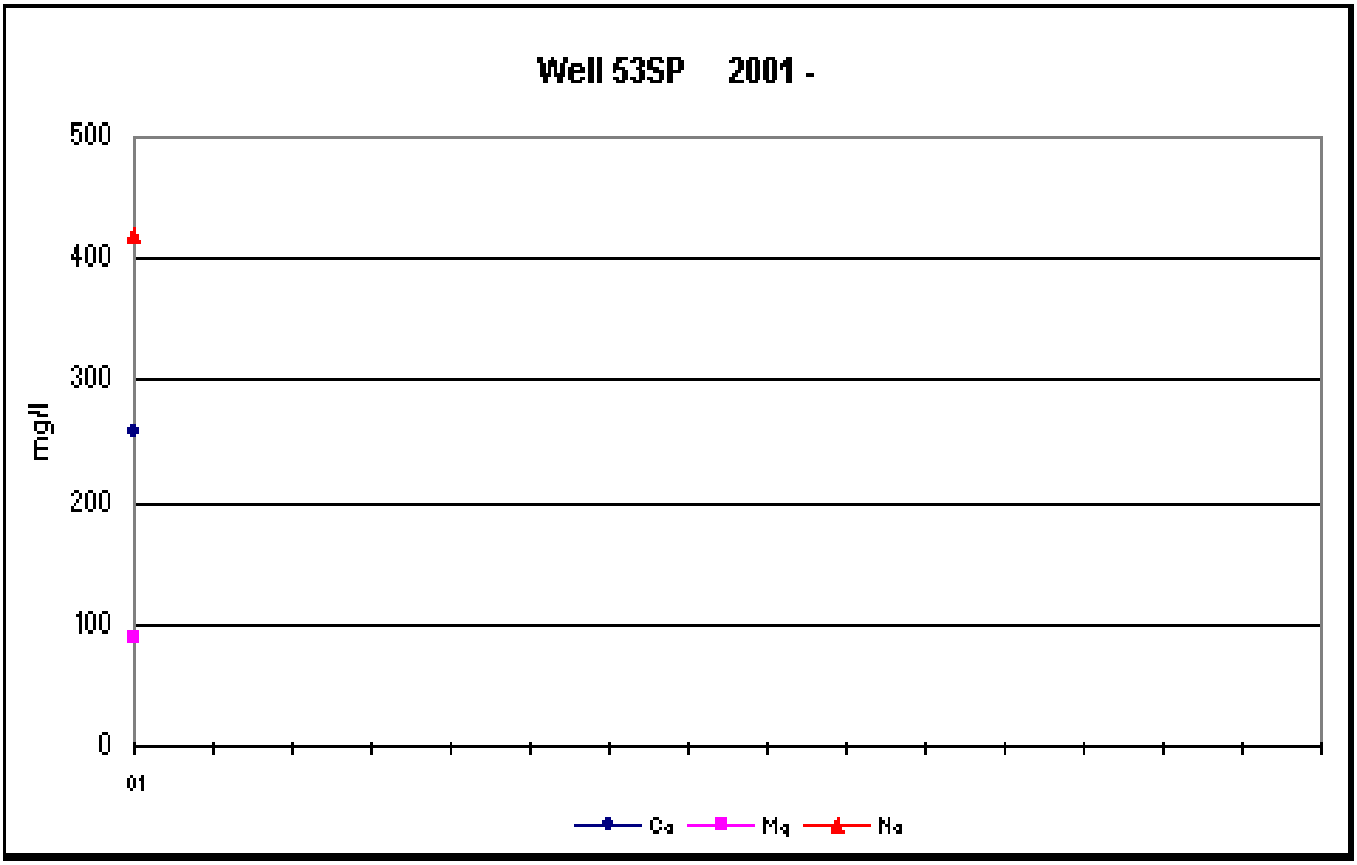
mg/l
01
B_Dirr

53S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mg/l
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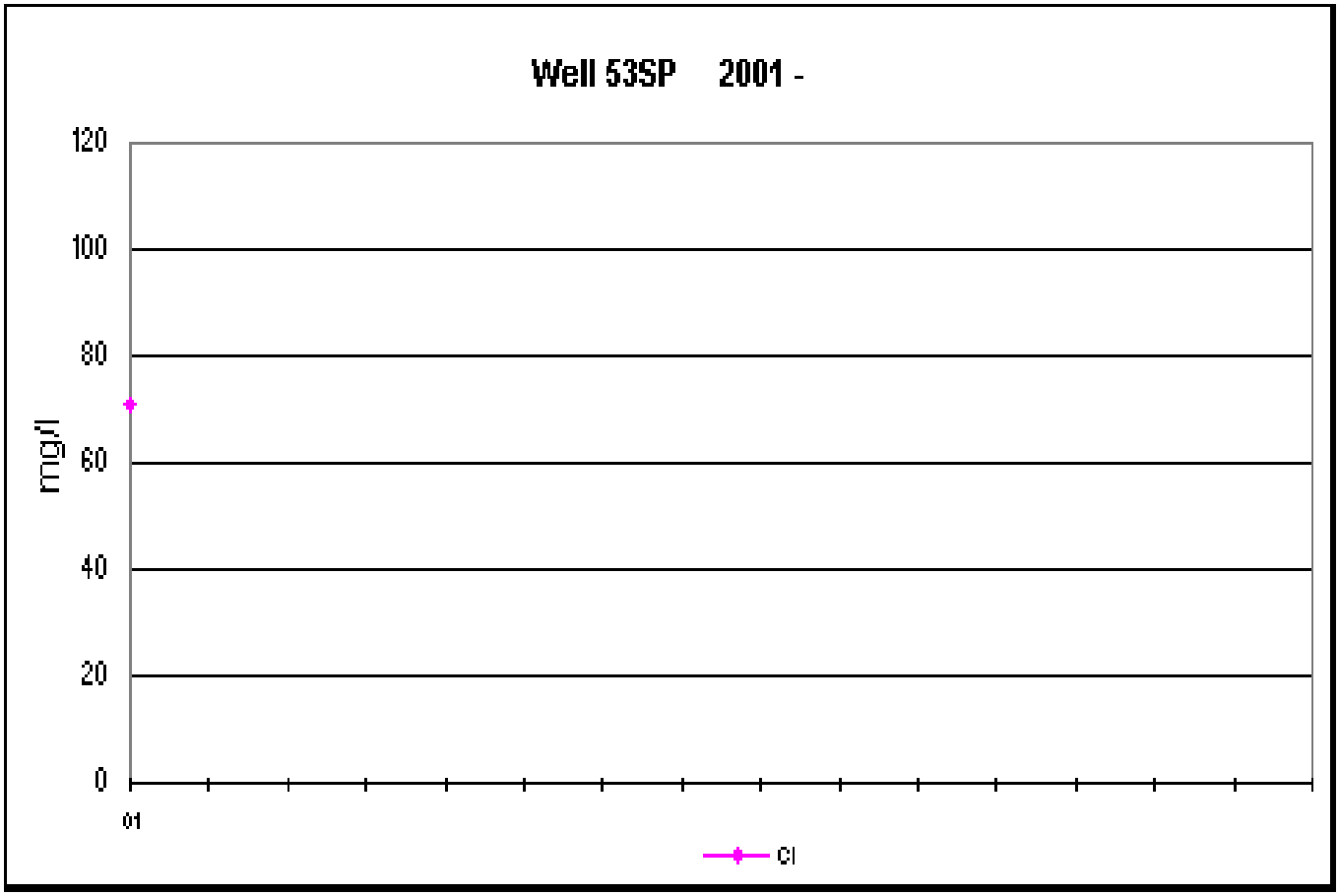
Mg
Na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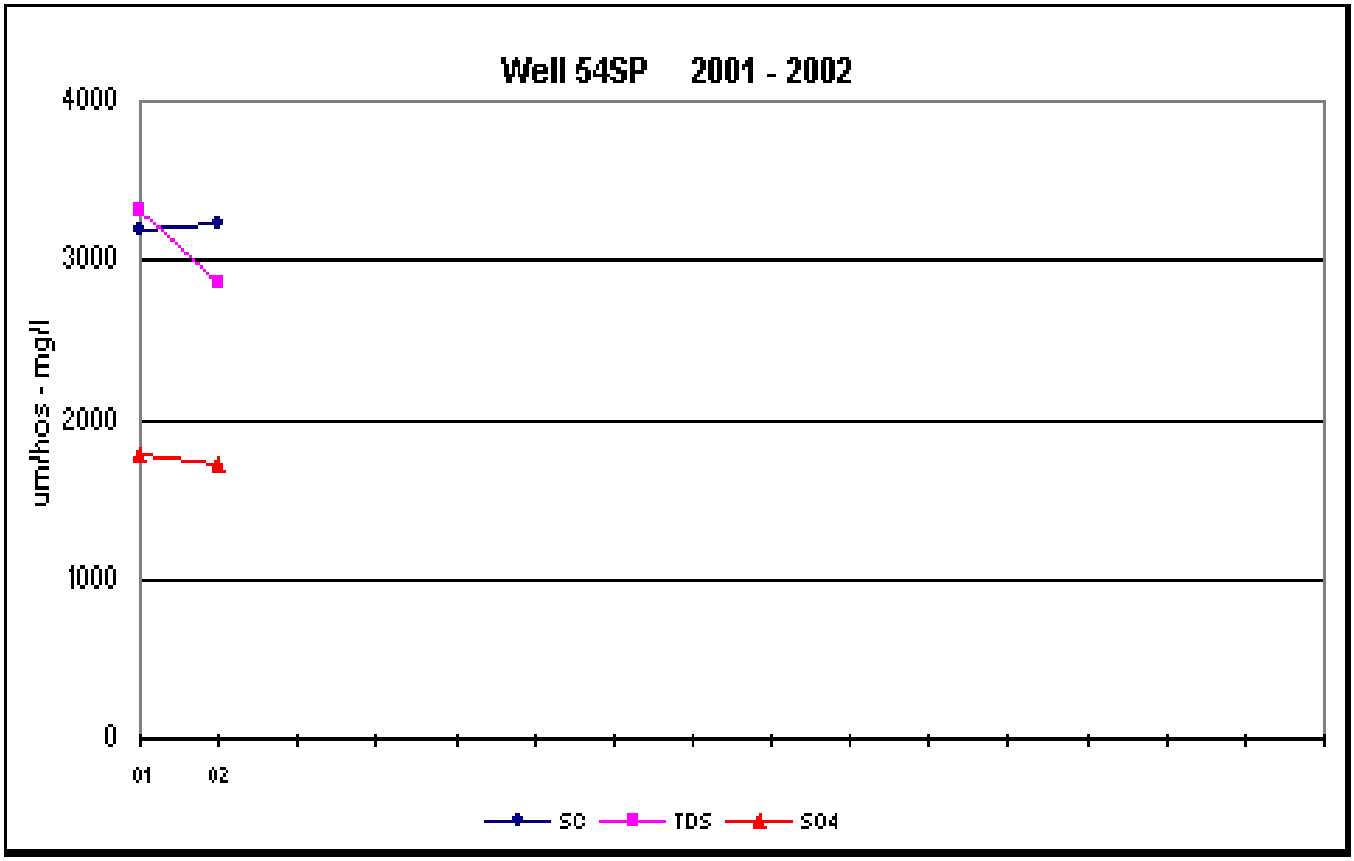
0
mg/l
01
Cl

54S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umhos - mg/l
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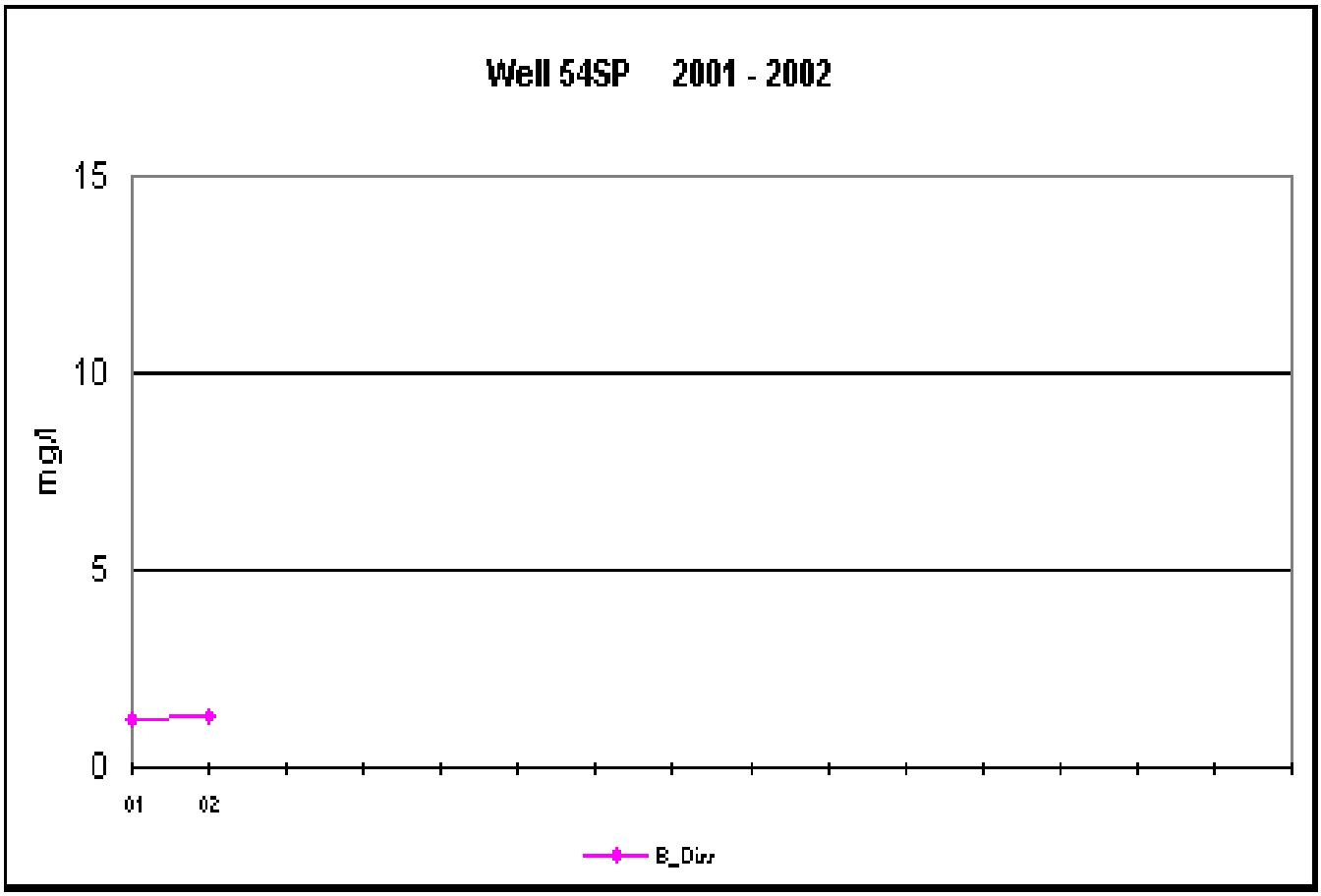
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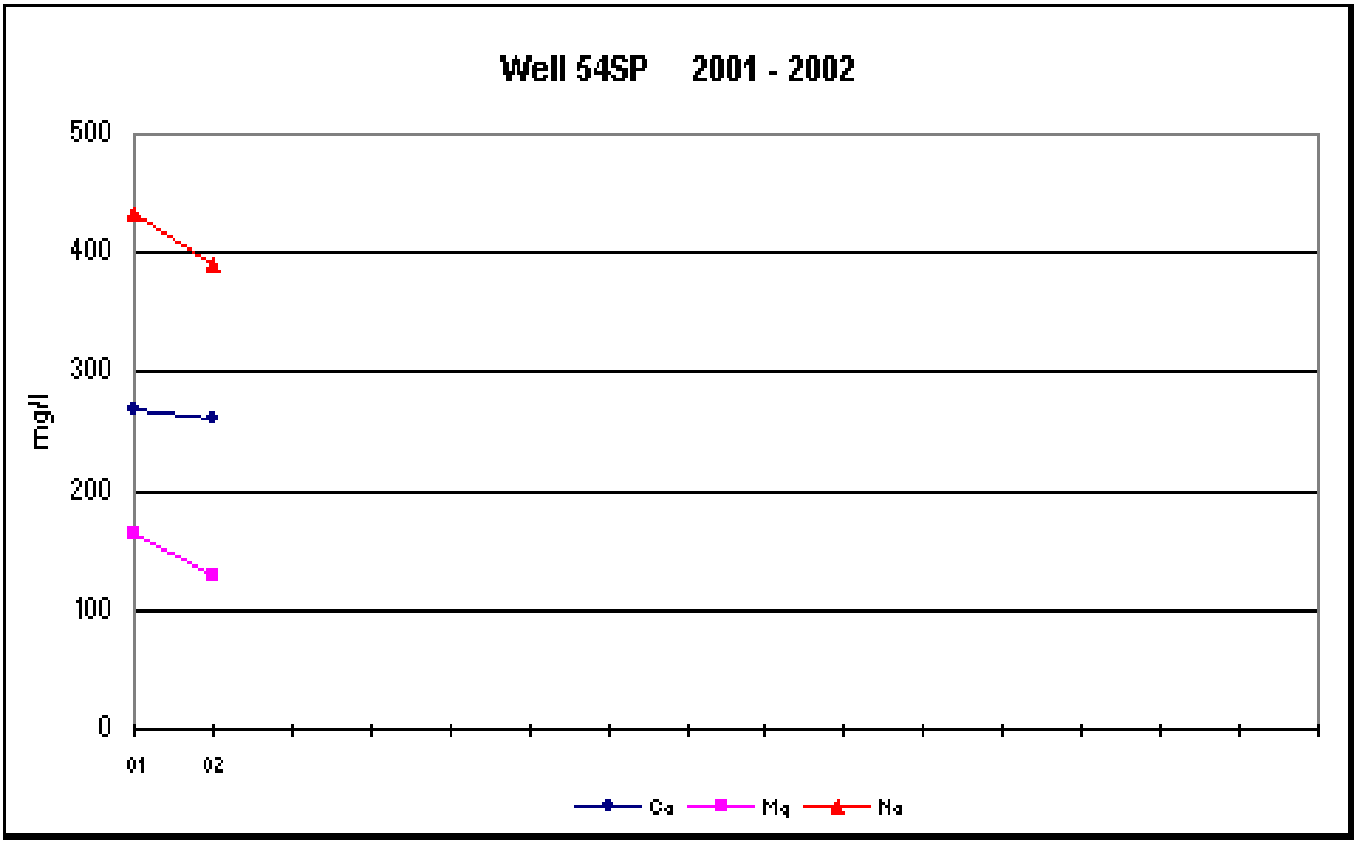
mg/l
01
02
B_Diss

54S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mg/l
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02
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Mg
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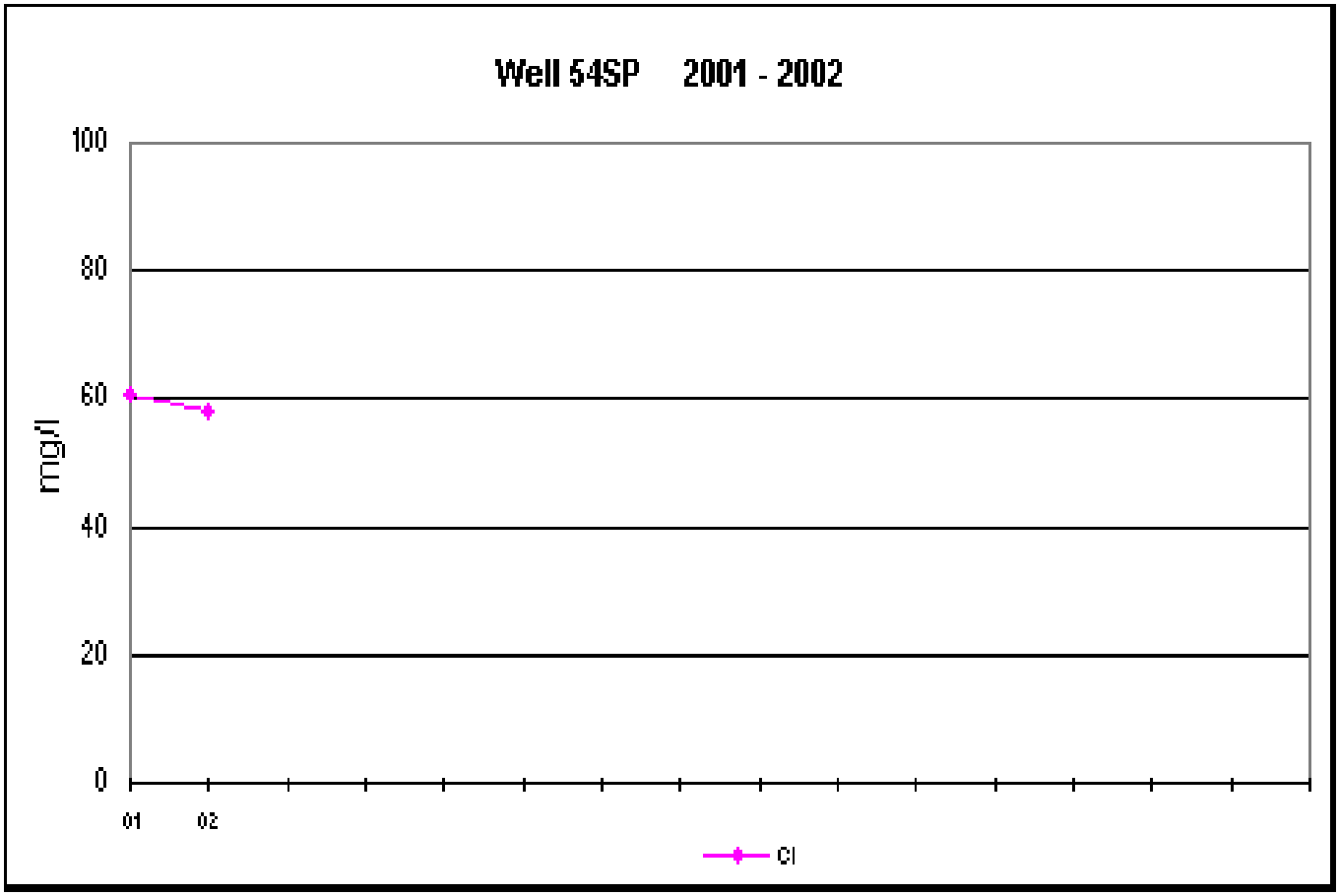
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