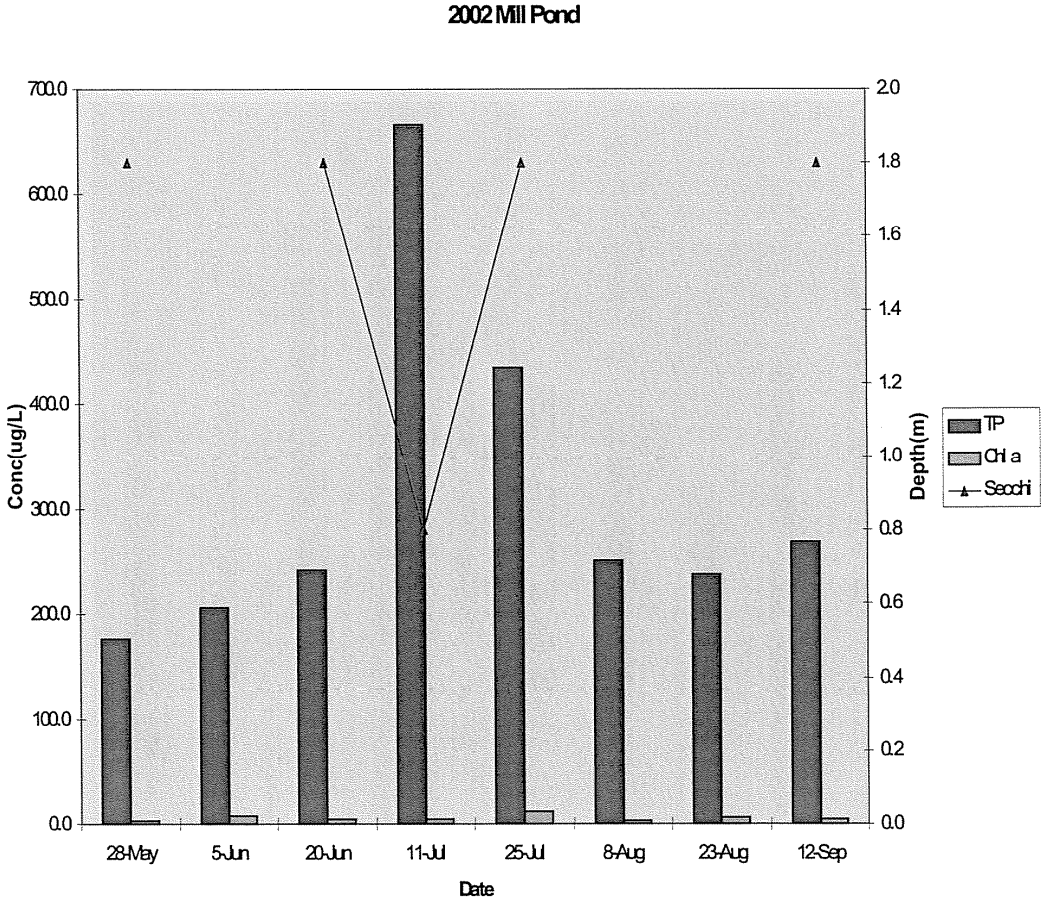
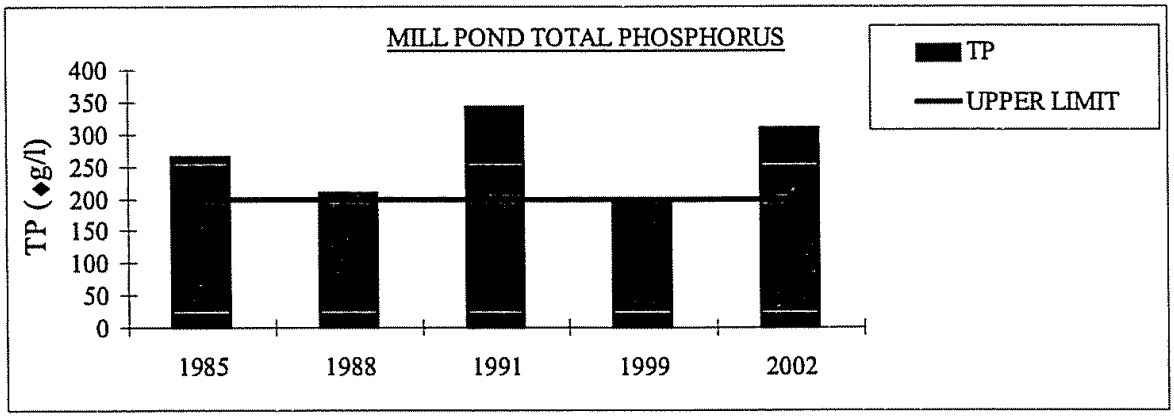
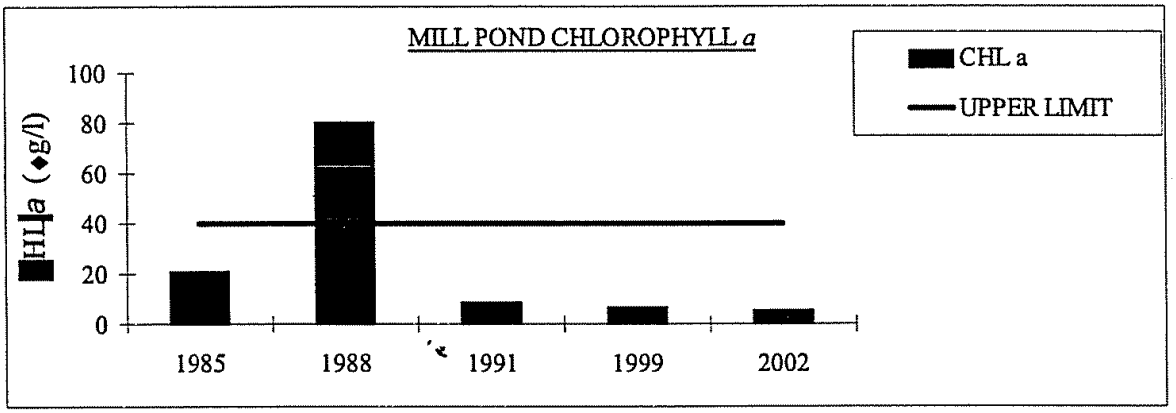
Mill Pond.

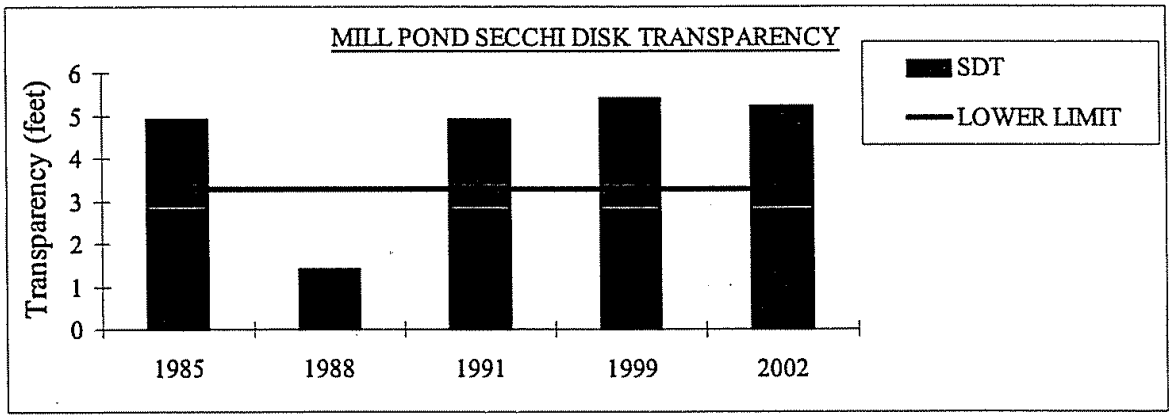
The mean TP concentration in the Mill Pond in 2002 was 310 µg/L, much higher than Fish and Weaver Lakes. However, the chlorophyll a concentration in the Mill Pond was much lower than in the other two lakes. The high amount of runoff flowing through the Mill Pond from Elm Creek washed the algae out of the Pond, resulting in clear water despite very high TP concentrations. Although there was very little algae in the water, the clarity was poor, (summer average of 1.6 m), because of sediment induced turbidity. The data suggest the quality of the Mill Pond can only be managed by managing the quality of Elm Creek.

Sample Id	Sample Date	Secchi m	Temp °C	DO mg/L	DO %	Cond µS/cm	pH	TP µg/L	SRP µg/L	TN mg/L	Chl-a µg/L
MILL POND	5/28/2002	1.80						176.6		0.00	2.23
MILL POND	6/5/2002							205.9		0.99	7.02
MILL POND	6/20/2002	1.80	21.57	6.29	71.40	0.47	7.56	241.1		1.56	3.86
MILL POND	7/11/2002	0.80	27.39	8.28	104.70	0.00	7.71	665.7	380.09	1.48	4.44
MILL POND	7/25/2002	1.80	21.03	2.55	28.70	0.39	7.36	434.1	244.63	1.45	11.17
MILL POND	8/8/2002		22.84	3.46	40.20	0.36	7.12	250.8		1.80	3.44
MILL POND	8/23/2002		20.10	3.07	33.80	0.18	7.61	237.8	150.89	1.22	5.93
MILL POND	9/12/2002	1.80	22.00	4.20		0.35		268.1	172.42	1.13	4.20
	Mean	1.60		4.64	55.76	0.29	7.47	310.0	237.01	1.20	5.29
	Std.Dev.	0.45		2.21	32.00	0.17	0.23	162.9	103.47	0.55	2.80
	Summer Mean (June-Sept)	0.50		2.21	32.00	0.17	0.23	166.1	103.47	0.28	2.71




MILL POND TOTAL PHOSPHORUS
TP
UPPER LIMIT
TP (◆g/l)
400
350
300
250
200
150
100
50
0
1985
1988
1991
1999
2002


MILL POND CHLOROPHYLL *a*
CHL a
UPPER LIMIT
CHL a (◆g/l)
100
80
60
40
20
0
1985
1988
1991
1999
2002


MILL POND SECCHI DISK TRANSPARENCY
SDT
LOWER LIMIT
Transparency (feet)
6
5
4
3
2
1
0
1985
1988
1991
1999
2002