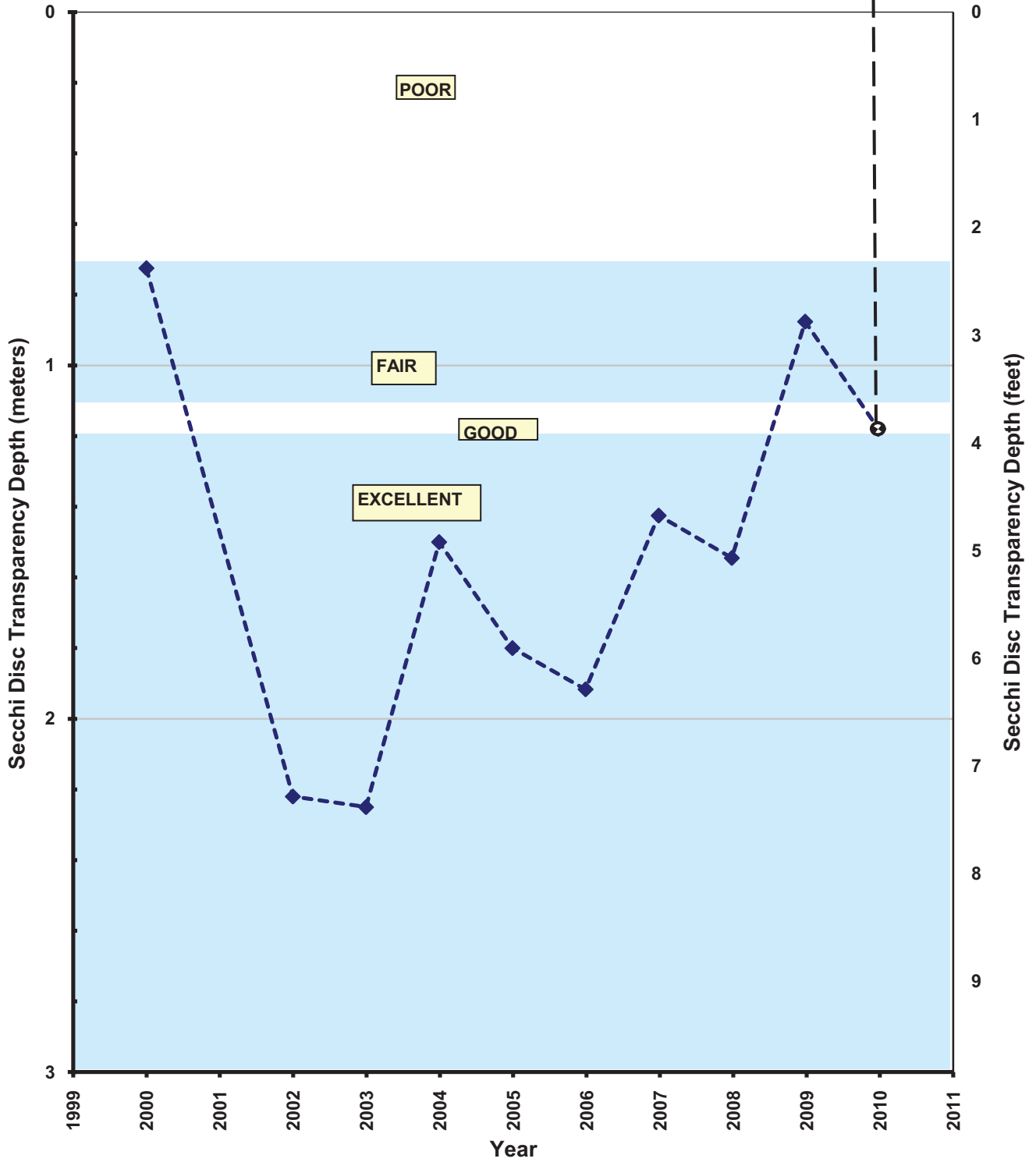
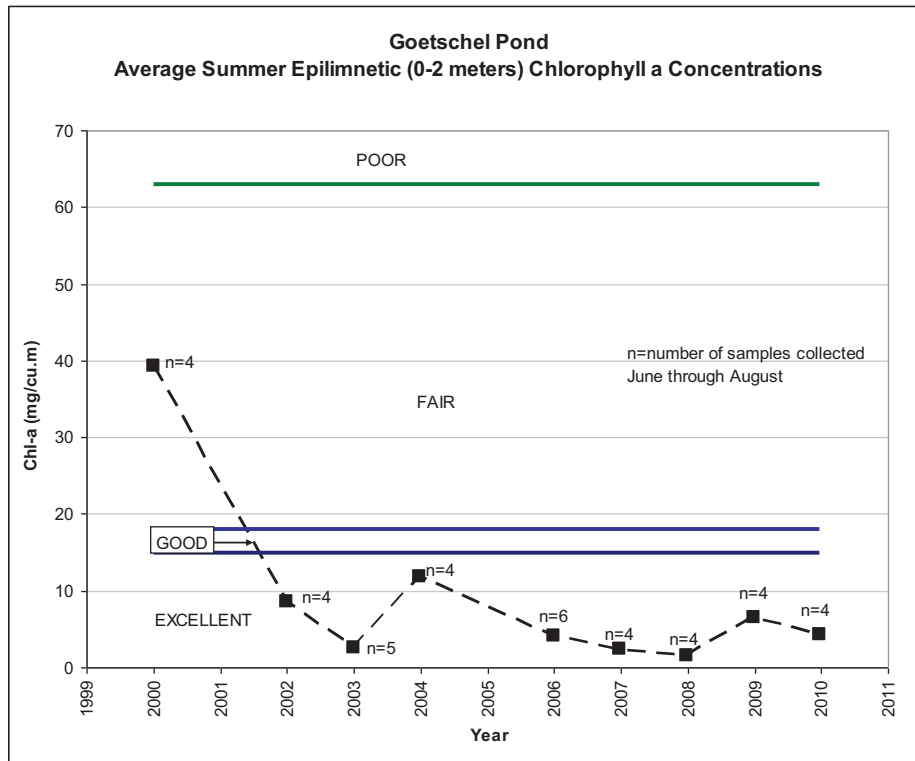
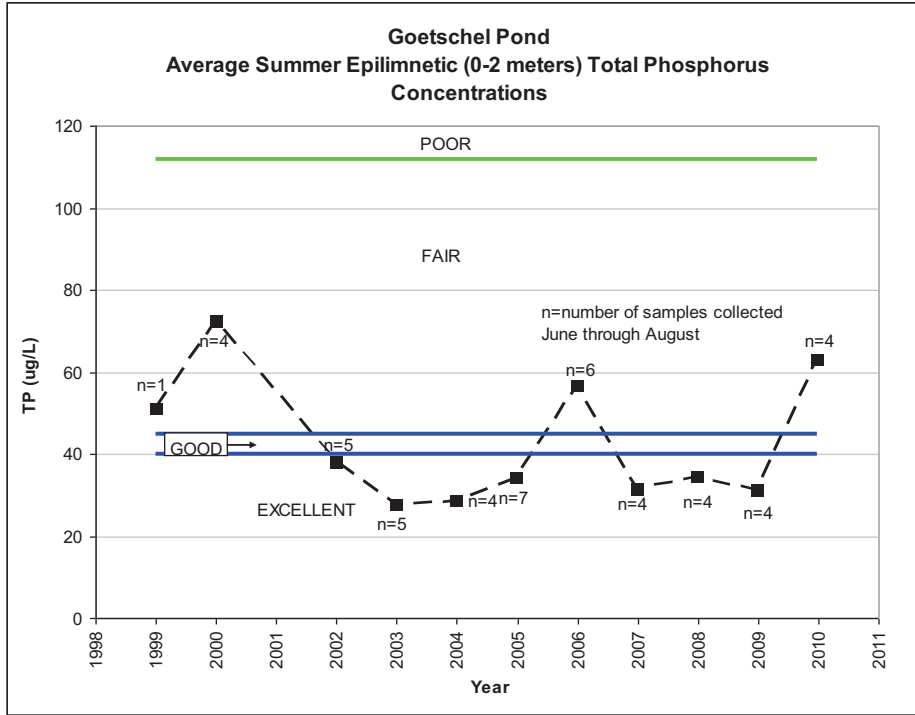


Goetschel Pond



**GOETSCHEL POND
SUMMER AVERAGE WATER CLARITY
Valley Branch Watershed District**



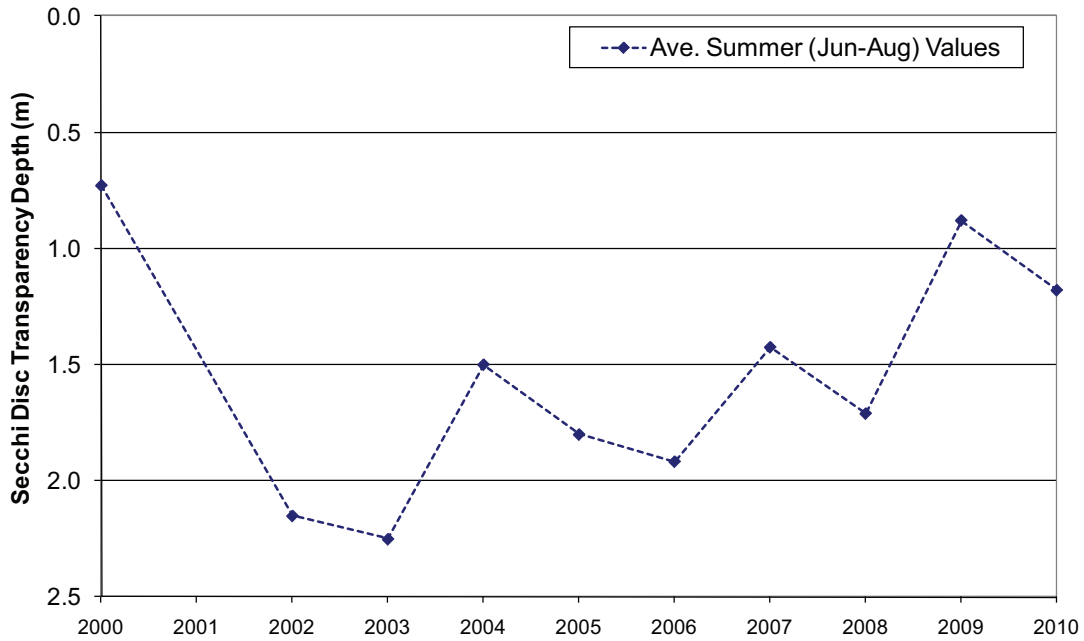
**GOETSCHEL POND
HISTORIC WATER QUALITY DATA
Valley Branch Watershed District**

**Goetschel Pond
Carlson TSI Index Based on Summer Average Water Clarity**



**GOETSCHEL POND
HISTORIC WATER QUALITY DATA
Valley Branch Watershed District**

**Goetschel Pond
Secchi Disc Transparency Depths**



**Mann-Kendall/Sen's Slope Trend Test
(Test Period – 2001 to 2010)**

Confidence Level	Test Statistic = -22	
	Test	Significance
99%	-22 > -25	Not Significant
95%	-22 < -10	Significant (Declining)
90%	-22 < -17	Significant (Declining)
80%	-22 < -14	Significant (Declining)
Sen's Slope	-0.142 meters/year	

Notes:

1. Points shown in the graph are the summer average (June-August) Secchi disc transparency depths. Only years with a calculated summer average based on at least 4 measured values are plotted. At least 5 data points were required to complete the trend test.

**GOETSCHEL POND
MANN-KENDALL TREND ANALYSIS
OF SECCHI DISC TRANSPARENCY
Valley Branch Watershed District**