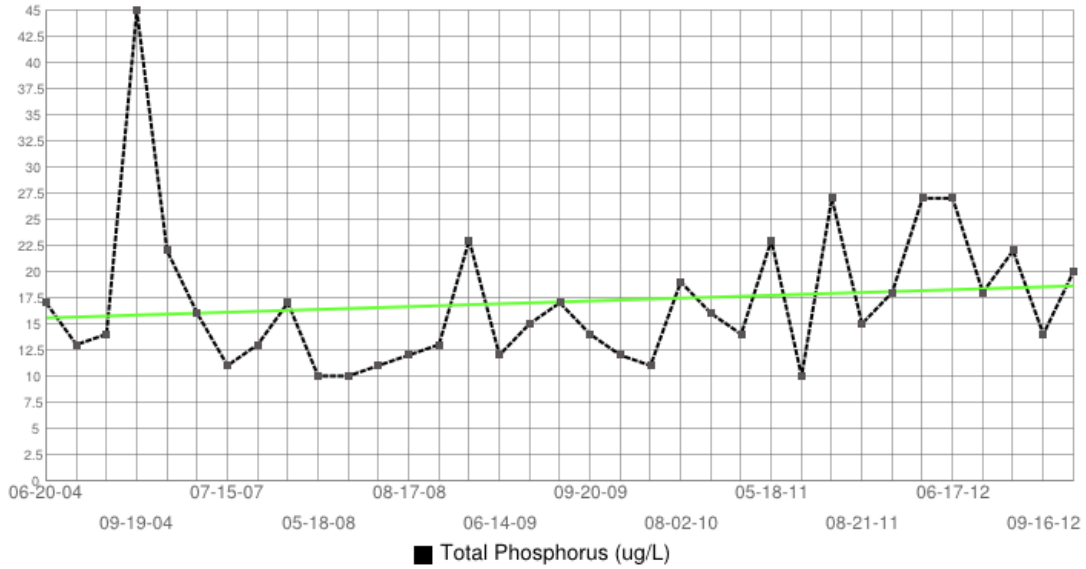


Trend Analysis Report

County	MN Lake ID	Lake	Site	Data Evaluated	Date Range	Data Source
Wright	86-0011-00	Charlotte	101	Phosphorus	06-20-2004 - 05-19-2013	RMB

**Total Phosphorus concentration is increasing,
which indicates declining water quality (90% confidence)**

Charlotte (ID#86-0011-00) Phosphorus Values



Mann-Kendall Statistic for Trend Significance

Sample Count (n) = 35

Mann-Kendall Statistic = 126

Z = 1.7752

Probability of True Trend	Probability of Type 1 Error (alpha)	Z Critical
99.9%	0.001	3.27
99%	0.01	2.575
95%	0.05	1.96
*90%	0.1	1.645
80%	0.2	1.29

* Minimum probability used by the MPCA