

Waterworks Lake



2009 DATA

Randolph County
Latitude: 39.4162

Longitude: -92.4646

Date	4/24	6/2	6/24	7/13	8/10	8/27	9/15	Mean
Secchi (inches)	25	47	43	44	61	61	59	47
TP (µg/L)	88	50	39	39	30	28	32	41
TN (µg/L)	1000	780	760	840	680	670	730	773
CHL (µg/L)	38.1	7.1	10.1	20.6	9.3	10.0	17.7	13.7
ISS (mg/L)	8.7	1.7	2.6	2.1	1.8	1.5	1.4	2.3

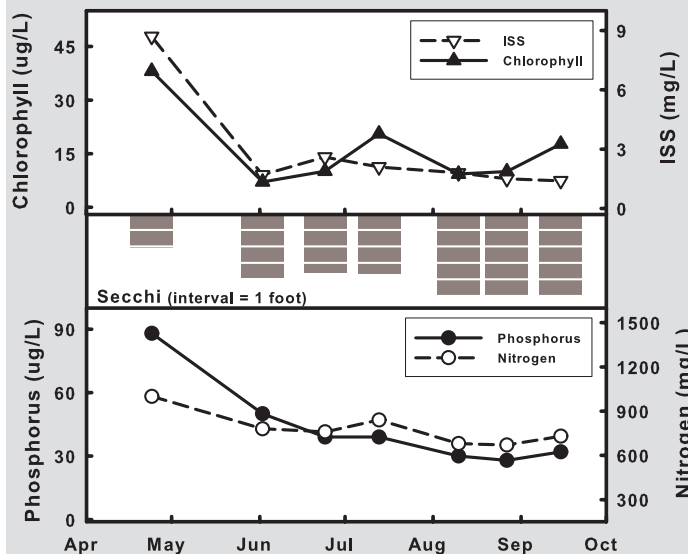
Waterworks and Rothwell lakes are both located in Rothwell Park in the city of Moberly and were each sampled 7 times in 2009.

Aside from the April values, conditions in Waterworks Lake were rather stable in 2009. Likely due to spring rains, the April sample had 5 times more chlorophyll than the season's minimum, 3 times more phosphorus, and 6 times more suspended sediment material. The Secchi transparency value was lowest in April (2 feet), increasing to 5 feet for the last 3 samples.

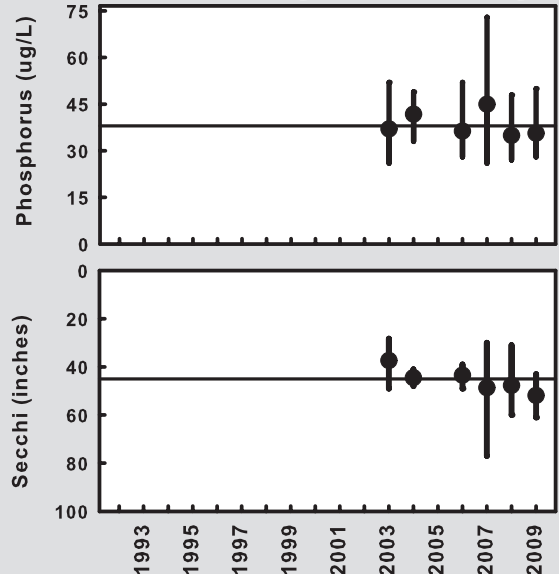
While phosphorus concentrations have been below the long-term mean for the last two years, there is no trend apparent for either

nutrient (nitrogen not shown). Aside from marginally higher values in 2007, phosphorus concentrations have been quite consistent in both range and seasonal average. Chlorophyll concentrations (not shown) have decreased for 4 consecutive years, resulting in modest increases of water clarity (as measured by Secchi transparency).

2009 GRAPHS



TREND GRAPHS



See pages 10-11 for help interpreting graphs