Progress Report #2

For Progress Report #2 you will primarily be reporting on your results from Part 2 of the project. Your report should be a complete and concise summary of your work on the project to date. Specific questions and items to include are noted below. If your group does not yet have all data or information outlined below, you should explain the issue or issues your group is currently working out so that you CAN get the plots and analysis completed. All plots should have a title, short caption, correctly labeled axes, and printed with only a WHITE background.

1. Summarize in a few sentences the primary reasons you chose either the Malachite Green or the Ascorbic Acid method to analyze your lake samples. Be sure you use quantitative reasoning. Include the final calibration plot you used for the sample analysis.

2. What quality control measures did your group use to verify the accuracy and precision of your sample measurements?

3. Describe how your group compensated for matrix effects in your lake water sample. Report the concentration of P in the lake sample and describe in the context of Fig. 3 of the "Analysis of Phosphorus Concentrations in Lake Mendota", which fraction of the sample you analyzed.

4. In Part 3 of the project, you are asked to design and perform an experiment in which you use one of the methods of analysis to answer a question about concentrations of phosphorus in freshwater systems. What variable will you investigate? How will you set up your experiments? What equipment will you need? Will you need to measure the concentrations of other substances besides phosphorus? If so, how will you do it? The answer to this question should be no longer than one page long.

Please staple the notebook pages to one of the progress reports. The notebook pages should be from one group member; that is, don't hand in pages with the same information from everyone in the group. We do not expect your notebook pages to be works of art, so no worries if there are mistakes, things crossed out, or incomplete analysis.