

Progress Report #1

For Progress Report #1 you will primarily be reporting on your results from Part 1 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. Provide the absorption spectra resulting from each of the phosphorus analysis methods. Overlay them on one plot. Point out the wavelengths you chose for each method, and defend your choices in the context of the data in this plot.
2. Provide the curves for your standards for both methods. Comment on the initial impressions your group has regarding the linear and dynamic ranges for both methods. It is fine to include more than one plot of each method, if that helps to make your points. Note that your FINAL report should only show one plot.
3. What is the method detection limit (MDL) for each method? Explain your choice of the phosphorus concentration used to determine the detection limit.
4. Explain what quality assurance measures your group is taking to ensure your results remain sufficiently accurate and precise.
5. How will your group evaluate any matrix effects in your lake water sample? If there are matrix effects present, how will you compensate for them?

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.