

Data and Results Tables

Data Table Part A

Molarity, Methyl Orange Solution _____ M

	Well #1	Well #2	Well #3	Well #4	Average
Drops of Methyl Orange Solution					—
Drops of 0.5 M HCl					—
Drops of Pool Water					—
Chlorine Concentration, M					
Chlorine Concentration, ppm					

Data Table Part B

Molarity, Methyl Orange Solution _____ M

	Well #1	Well #2	Well #3	Well #4	Average
Drops of Methyl Orange Solution					—
Drops of 0.5 M HCl					—
Drops of Pool Water					—
Drops of 1.0 M Urea Solution					—
Chlorine Concentration, M					
Chlorine Concentration, ppm					

Post-Lab Calculations *(Show all work on a separate sheet of paper.)*

- For each titration, calculate the concentration of chlorine in the simulated pool water, in units of molarity, M, and parts per million chlorine, ppm. Enter values in the Data Tables.
- Average the free residual chlorine concentration values for each pool water sample. Enter these averages in the Data Tables.
- Submit your Part B data to the instructor. When all student data are turned in, take the class data and plot, on graph paper, the chlorine concentration, in ppm, versus the drops of urea solution added. Place free residual chlorine concentration on the y-axis and drops of urea solution added on the x-axis.