

## Concentrations in the Environment

## What is ppm?

- One part per million is one second in 12 days of your life!
- One part per billion is one second in 32 years of your life!
- One part per million is one penny out of \$10,000!
- One part per billion is one penny out of \$10,000,000!
- One part per million is one pinch of salt on 20 pounds of potato chips!
- One part per billion is one pinch of salt on 10 tons of potato chips!
- One part per trillion is a six inch leap on a journey to the sun!
- One part per billion is one square foot in 36 square miles!
- One part per trillion is a postage stamp on an area the size of Texas!

## What is ppm?

- A unit of measure of an amount of chemical found in air, water or other substance
- Unit of measure for Concentration – ratio of solute compared to solvent

- Dilution – reducing the concentration of a chemical

- Serial Dilution – a way to reduce concentration using distinct steps which dilute with a patterned ratio.

