Reading Guide

CEEG 340–Introduction to Environmental Engineering Instructor: Deborah Sills

Reading assigned for Friday 8/30: Textbook, pp.40-52

After completing the reading, you should be able to:

- 1. Define ppm_v and differentiate between ppm_m and ppm_v .
- 2. Use the ideal gas law to convert from units mole fraction to units of partial pressure (ex. 2.4).
- 3. Use the ideal gas law to convert from units of ppm_v or ppb_v to mass per volume.
- 4. Convert from units of concentrations of mg/L NH_3 , mg/L NH_4^+ , and mg/L NO_3^- to units of mg/L "as N" (see example 2.13 on p.51).
- 5. List the three major greenhouse gases, and describe qualitatively changes in their concentrations since preindustrial times (you don't need to memorize any numbers).