Reading Guide

CEEG 340–Introduction to Environmental Engineering Instructor: Deborah Sills

Reading assigned for Monday 10/7: Textbook pp.392–399

After completing the reading, you should be able to:

- 1. Describe coagulation and flocculation in one or two sentences.
- 2. Describe the mechanisms of coagulation and flocculation: compression of the electrical double layer, charge neutralization, adsorption, and precipitation and enmeshment.
- 3. Name two common coagulants.
- 4. Describe factors that influence the choice of coagulant.
- 5. Describe why alkalinity is required when alum is used as a coagulant.
- 6. Define the term \overline{G} (root mean square velocity gradient).
- 7. Given, \overline{G} , Q, θ , and temperature, calculate the volume and power requirement for a mechanical rapid-mix tank.