

Reading Guide

CEEG 340–Introduction to Environmental Engineering

Instructor: Deborah Sills

Reading assigned for Wednesday 10/30: Textbook pp.216–224

After completing the reading, you should be able to do the following:

1. Given a plot of CBOD exerted over time, determine the amount of CBOD remaining and exerted at any time, t .
2. Given a plot of CBOD remaining over time, determine the amount of CBOD remaining (L) and exerted (y) at any time, t .
3. Write the differential form of the rate equation for CBOD remaining, L .
4. Given the differential form of the rate equation for CBOD remaining, L , write an expression for CBOD remaining, L , as a function of time.
5. Given the differential form of the rate equation for CBOD remaining, L , write an expression for CBOD exerted, y , as a function of time.
6. Describe a BOD test.
7. Use data obtained from a BOD test to report BOD_5 .
8. Determine the sample size for a BOD test.