

25 January 2013

Department of Civil Engineering
2012 Autumn Semester
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Water Quality Dynamics

Outline #10: Sediment

1. Report of the last exercise (Ex8-3)
 - Presentation (Terao, Aleks, Ran, and Nga)
 - Discussion
 2. Eutrophication of Lakes
 - Mass balance of total phosphorus in lakes
 - Dynamic ecosystem models
 3. Equilibrium Chemical Model
 - Activity corrections
 - Equilibrium constant and temperature
 4. Sediment
 - Sediment transport overview
 - Simple solids budgets
 - Bottom sediments as a distributed system
 5. Exercise (Ex9-1 to Ex9-4)
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