CE 326 Principles of Environmental Engineering Field Trip Ames Water Treatment Plant

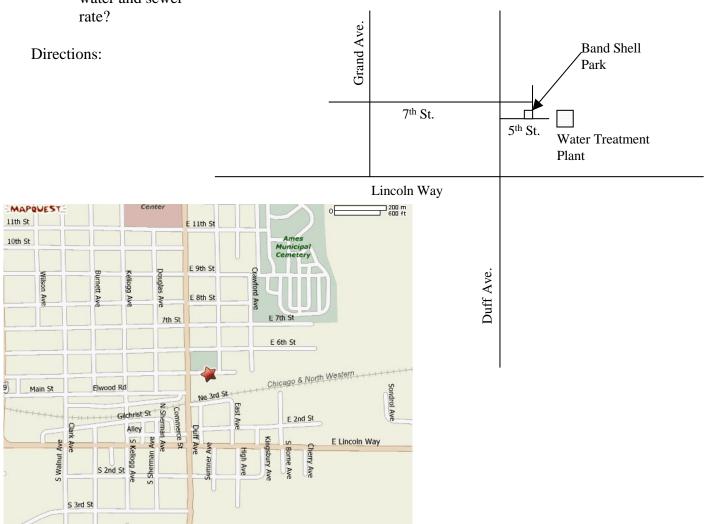
Meet at the main entrance of the Ames Water Treatment Plant at half past the hour of your regularly scheduled lab period. There is additional parking behind the building.

Based on your visit to the plant, write a report (about 1 to 1½ pages) on the operation of the facility (due next lab period). Briefly discuss the processes used to treat the water. Include in your discussion answers to the following:

1. What is the source water for the plant?

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- 2. What is the treatment objective for the unit processes?
- 2. What treatment chemicals are used in processing the water?
- 3. What residues are produced in treating the water and how are they disposed?
- 4. Draw a flow diagram. Indicate where the chemicals are added and where residues are removed.
- 5. Based on the tour and/or published information from the plant, how much water does the average family of three use per year? At what cost? What would be their combined water and sewer



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