

Date: Tuesday, October 22, 2019

Topic(s): Drinking Water Treatment Plant Tour

Report: Individual lab assignment due at the beginning of next lab (10/29)

Preparation: Read lab handout and be prepared with question to complete assignment

Objectives: The objectives of this lab are to:

1. learn more about the drinking water treatment processes
2. visit a full-scale water treatment plant to see how the processes are configured and how they work to produce safe, potable drinking water.

Deliverables. Due next lab period as an individual assignment

For this assignment:

1. Draw a process flow diagram (PFD) of the main treatment process at the Milton Drinking Water Treatment Plant. This should be drawn using a computer program (for example, Powerpoint or Autocad) and plotted in landscape view where each process is labelled. The PFD should also include:
 - a. operational information such as plant flow rates, filtration rates, and types of media in the filters
 - b. what chemicals area added and where.
2. Describe the purpose of each chemical used in the process, i.e., what are they used for.
3. Describe how solids are disposed of after treatment.