**The College of New Jersey**

**Civil Engineering Department**

**Thailand Water Supply System Senior Project**

Meeting 14: Minutes

Date: Wednesday, February 15, 2012 11:00 AM

Attendance: Dr. Horst, Advisor

Ian Burton, Project Manager

Jayme Lynch

Amanda Feeley

Summary:

The group discussed the conference occurring in March. The application to request money from the school is due one month prior to travel so the three groups planned the application.

Amanda then reviewed the calculations she performed. She attempted to calculate the pressure at the outlet point of the distribution system. She used Bernioulli’s Equation with the change in elevation known. She calculated the velocity based on an assumed flow (which had to meet the standards). The pressure was found but significantly larger than the maxium. This was shown to Dr. Horst and he remined the group that the pressure at the outlet is zero, only atmospheric. The velocity should be calculated through an irrative process and the velocity head will represent the pressure when the outlet is closed.

Amanda also had difficulty using the WaterCAD program so Dr. Horst suggested that either a personal laptop be used if he could not install the program with his administrator access. Ian had difficulty finding information for Schedule 20 PVC so Warm Heart will have to be contacted to request more information. Jayme tried to find more Turbine manufactures. Dr. Horst suggested the company the group used previously and suggested she call pump manufactures because they might be able to suggest turbines.