**The College of New Jersey**

**Civil Engineering Department**

**Thailand Water Supply System Senior Project**

Meeting 4: Minutes

Date: Wednesday, September 21, 2011, 10:00 AM

Attendance: Dr. Horst, Advisor

Ian Burton, Project Manager

Jayme Lynch

Amanda Feeley

Summary:

At this meeting, the calculations performed were reviewed. The flow was determined using the weir data collected in May. The critical depth, base width and gravity were used to solve the flow and was found to be 1.1735 m3/s. Thus, the tanks holding the needed 64 m3 of water would fill in approximately a minute with that flow. Therefore, the stream holds enough water for their demand. Jayme showed Dr. Horst the calculations for the change in head and the time needed to fill the tanks. It was performed at various times (2, 10, 12, 15 hours) and the head that would be needed. We discussed approximately the change in elevation from the tank location. The villagers wanted to tanks at one location on top of a hill but a larger head was needed so the hill elevation was estimated to be 6-8 meters. From here, the preliminary designs will be reviewed and final calculations will be completed determining the values we will use.