

# GENG5505 – Practical class WK 9

## UNDERSTANDING ETHICAL VALUES AND PROBLEMS

### **Engineering Values:**

Develop a LIST OF VALUES that you think are NECESSARY to becoming a successful Engineer. This list will probably include things such as engineering knowledge and technical skills that are not ethical in nature. For the values that are ethical, as a team, discuss WHY such values are so important to achieve a successful career.

### **Engineering Cases:**

As a group, reflect on the following real world case studies from both an engineer's professional and ethical perspective.

#### **A) Billing**

a) The budget for a large project is subdivided into task accounts. The report preparation task has \$135,000.

**Scenario 1:** You have only spent \$125,000. What are the options with the \$10,000 and what do you do?

**Scenario 2:** A situation similar to the previous example, but you have spent \$145,000. What are your options and what action would you take?

#### **B) Customer Relations**

a) Your company has been asked to recommend one of 5 potential sites for a landfill location. All 5 sites have significant problems. What are the options and what recommendations would you make?

b) You are monitoring drilling of pier holes for a deep foundation (200 feet). You notice that the water draining from the muck has an oily sheen, smells strongly of hydrocarbons and has stained the soil black. What would you do?

Adapted from M. P. Santos, 2008