

## Wastewater Review Course

**Course Outline:** This is a two-day, twelve-hour course that will cover the proper operation, maintenance, and procedures for the following wastewater topics. Mathematical calculations associated with each topic will also be covered.

*Preliminary treatment:* Grit & Rag removal

*Primary treatment:* Primary clarifier operation, settling rates, sludge pumping, and detention times

*Secondary Treatment:* Activated Sludge, RBC's, Trickling Filters, Oxidation Ditches, and Secondary Clarifiers

*Solids Treatment & Disposal:* Aerobic Digesters, Anaerobic Digesters, and Land Application of Sludge

*Laboratory Operations:* Suspended Solids, BOD, Phosphorous, pH, Dissolved Oxygen, QAQC

### Agenda: Day One

8:30am Registration

9am – Noon Wastewater Math

Noon – 1pm Lunch (provided)

1pm – 4:30pm Wastewater Math

### Agenda: Day Two

8:30am Registration

9am – 9:45am: Preliminary Treatment

10am – 11am: Primary Treatment

11am – Noon: Secondary Treatment

Noon – 1:00 pm Lunch (provided)

1pm – 2:45pm: Secondary Treatment Activated Sludge, RBC's and Trickling Filters

3pm – 3:45pm: Solids Treatment & Disposal

3:45pm – 4:30pm: Laboratory Operations