

Task List

1. Build and design apparatus

- Design sedimentation tank
- Design inlet injection systems and flocculator
- Acquire materials
- Build set-up and check for potential points of failure

2. Experimenting with continuous plates (plan to submerge plates in floc blanket (2.5 cm))

- design 1: normal plate settlers in floc blanket at 60 degree angle
- design 2: normal plate settlers but one plate every (#?) plates extends further into floc blanket
- design 3: zigzag design that extends vertically upward
 - figure out constraints of angle, length of section, and height
- other geometries??

3. Experimenting with porous plates

- Design 1: Normal plate settlers with pores
 - Figure out design constraints of pores
- Design 2: Zigzag plate settlers with pores
 - Figure out geometry and pore layout

4. Experimenting with a combination of plates depending on the effects each have on the floc path.

Team Roles

Team Coordinator: Albert. The Team Coordinator is responsible for facilitating Team meetings and keeping track of progress over the course of the semester to ensure that goals are completed in a timely manner. Additionally, the Team Coordinator is the point person for communication between their team and their faculty or student advisor, as well as between their team and the entire AguaClara leadership team.

Materials Coordinator: Lishan. This individual is responsible for ordering materials (through Cristina) for their team, as well as keeping track of and organizing materials previously ordered.

Data Coordinator: Yuqi. The Data Coordinator is responsible for ensuring that data from experiments is saved in an appropriate place on the server and with an appropriate name. The Data Coordinator could also be responsible for doing a preliminary review of data collected to lead discussions about experimental results in meetings.

Report Coordinator: Sidney. The Report Coordinator is responsible for making sure all information is added when new research and experiments have been done. They are the one

responsible for making sure all assignments are completed before submitting. Some responsibilities include taking pictures and adding them to the necessary sections of the report.

