tdm28

Content created by Anonymous

There are no pages at the moment.

End of Semester Update

My work in the second half of the semester has revolved around the design and construction of the sludge blanket tank. Working with Kevin and Sara, I redesigned the tank 3 or 4 times to account for vaious issues we encountered with construction, hydraulics and water treatment. I then finalized a new layout for the sed tank that would allow for the eventual inclusion of a lamella tank. I also helped with the construction phase of the project, as well as the additions we had to make during the first few days of operation (the hopper support structure). I also helped Sara with adding to and editing the sedimentation wiki page.

Mid-Term Semester Update

So far this semester I have spent a majority of my time so far at the water treatment plant making modifications on the Pilot Plant. Work this semester has been particularly challenging as the pilot plant required many repairs. The first thing we did was drain the tank of the excess sludge that has been building up over the last year and a half. Then I worked on resizing the section holes and refitting all of the baffle connections. Then I designed and installed the added pressure device for the turbidity meters. My next work involved the new construction on the flow meter as well as installation of Leah's automated flow device. My recent work has been on designing and laying out the plan for the sedimentation tank. This has been difficult since the layout of the pilot plant is severely restricting our design options. I was involved in getting the plant up and running this week, and I hope to finalize our design plan this week, so that we can begin construction after spring break and get into data analysis.

Gantt Chart for David Mcevoy

Gantt Chart	Feb			March				April					Мау		
Week:	11	18	25	3	10	17	24	1	7	14	21	28	5	12	
Channel Hole reconstruction	work														
Sludge Removal	work	work													
Baffle Re-fitting		work	work												
Run Data Collection							work	work	work	work	work	work	work	work	Т
Build Tube Settler support device					work										Г
Re-rout turbidity inflow and out flow tubes			work	work											\Box
Install Pressure head device to fix O2 saturation			work												\Box
Do write up on pressure head design/construction			work												\Box
Install Auto flow device to front end of the floc tank			work	work	work										
Design Sed Tank					work		work	work							
Incorporate Auto. Chem Feed into Pilot Plant		work	work	work	work										
Incorporate Sed Tank into Pilot Plant					work		work	work	work	work	work	work	work	work	
Add Obstruction to Flow Channels								work	work	work	work	work	work	work	1
Improve testing procedure								work	work	work	work	work	work	work	1
Assist with Data Analysis								work	work	work	work	work	work	work	1
Write Sedimentation Report													work	work	wo k
Write Report on Tapered Flocculation													work	work	wo k
Write Report on Obstructions													work	work	w k