

# Stacked Rapid Sand Filter Theory

[[ Purpose and summary of this presentation. Where to find more information ]]



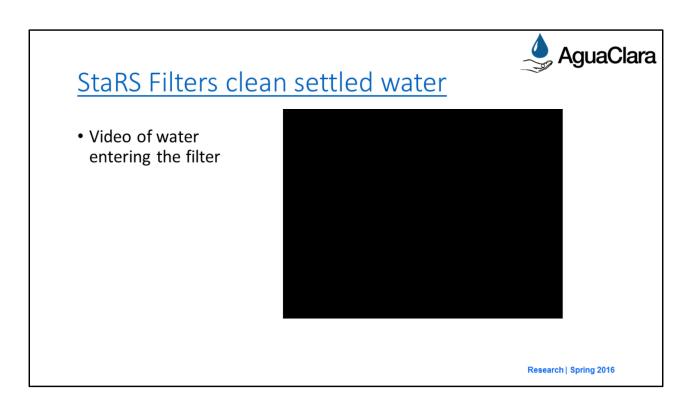
Research | Spring 2016



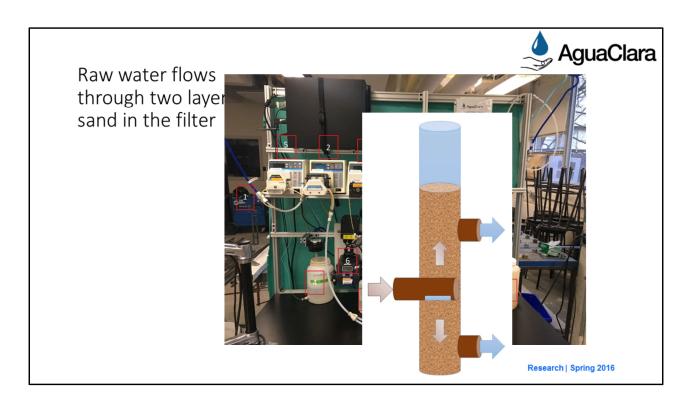
#### StaRS Filters clean settled water

• Schematic (Monroe's)

Team Type | Semester Year









### Clay alone never causes filter failure

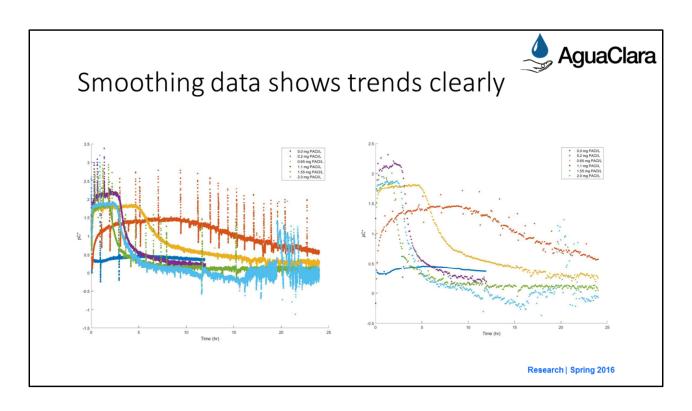
• Plot of clay turbidity

Research | Spring 2016

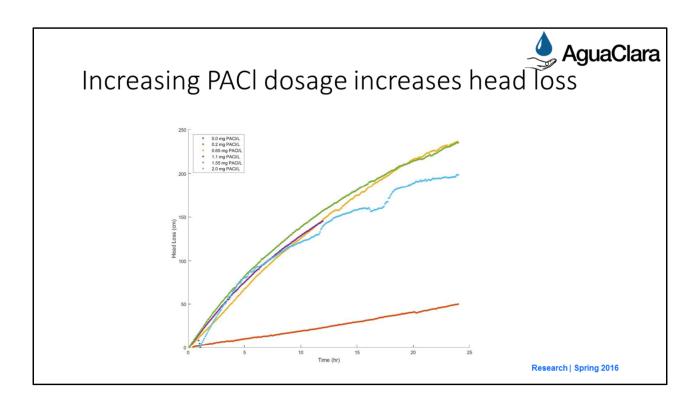


Research | Spring 2016

Experimental conditions 24 hours Theresa

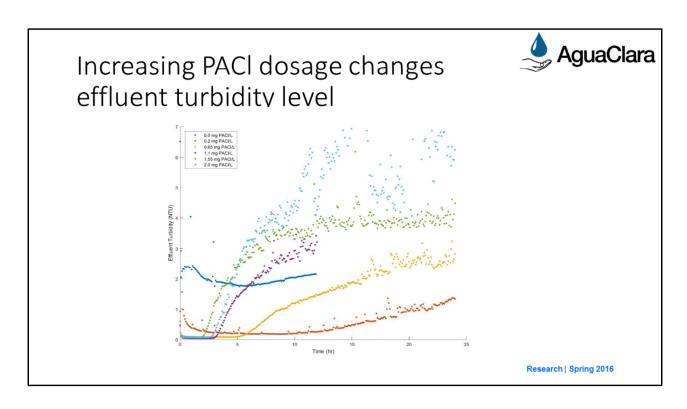


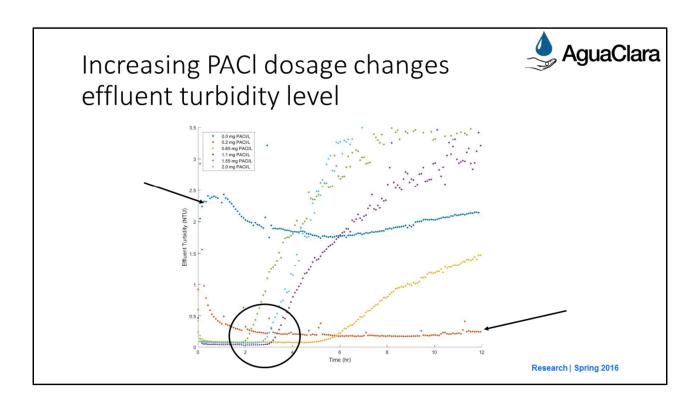
Theresa

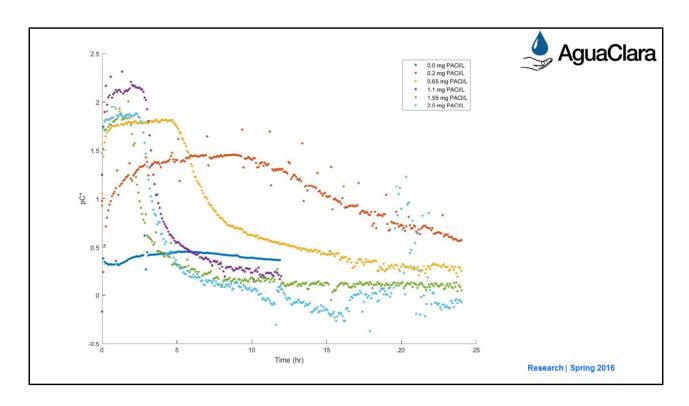


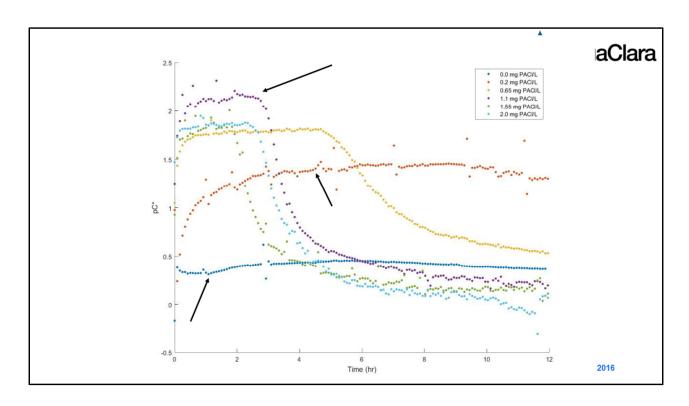


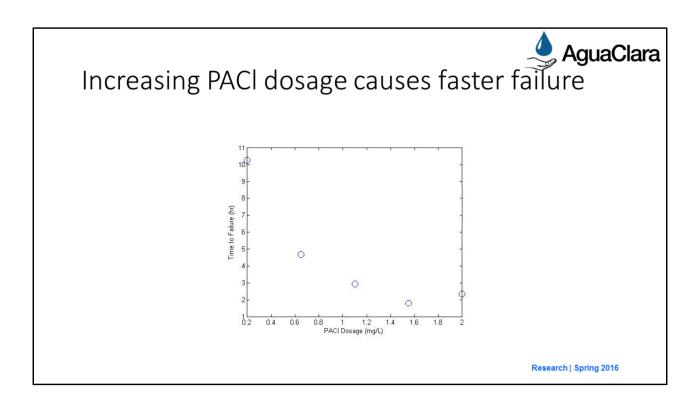
Research | Spring 2016











Theresa

### Explore the effect of different influent AguaClara conditions



Research | Spring 2016

Coagulant sticks to walls of filter, making backwash difficult Flocs settles in cuvette of turbidimeter measuring influent water Theresa





## Questions and Recommendations



[[Team Member Name]] [[Degree Pursuing]] [[Email Address]] [[Team Member Name]] [[Degree Pursuing]] [[Email Address]]

[[Team Member Name]] [[Degree Pursuing]] [[Email Address]]

Research | Spring 2016





## Appendix Slides

Team Type | Semester Year



### Steps used to test the filter

Research | Spring 2016

Procedure and experimental conditions PID



Research | Spring 2016



### **Experimental Apparatus**

Research | Spring 2016