

# mjh97

## Matthew Higgins' Individual Contribution Page

### Summer 2011 Contributions

I have continued work with the CDC system through this summer. My current research is largely aimed at altering the physical structure of the CDC system to eliminate sources of minor head loss. After implementing several of these alterations in our lab apparatus, we are beginning to see reductions in the presence of minor head loss sources which has greatly improved the CDC system's accuracy, as evidenced by a decrease in the system's maximum percent error during experimental trials.

### Spring 2011 Contributions

I began the Spring 2011 semester as the sub-team leader for the Chemical Dose Controller and Linear Flow Orifice Meter (CDC/LFOM) team. Our group quickly assembled a linear chemical dosing lab apparatus to begin experimentation to find the upper-flow limit of the linear CDC system. Early on in the semester, we realized that the system was not producing the chemical flow rates that our theoretical calculations predicted. We attributed this to the presence of unanticipated minor head losses through the system. The remainder of our time was spent investigating the sources and magnitudes of these minor head losses.

### Content Created

<b>Content created by Anonymous</b>
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There are no pages at the moment.
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