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## Siwei's Individual Contribution Page

### Fall 2011 Contributions - Water Treatment Technology Selection Guide (WTTSG)

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Siwei's contribution towards the development of the WTTSG can be summarized in the following phases:

1. Data Acquisition Stage:
  - a. Jointly researched on the performance of hydraulic-based Unit Treatment Processes for codification within the WTTSG
  - b. Jointly researched on the regulatory standards, and drinking water guidelines for codification within the WTTSG
  - c. Jointly developing the write-up for an introduction to the technologies - targeted for understanding by a layperson.
  - d. Jointly developing a list of 'Top 15 Questions to ask your Technology Vendors'
2. DSS Development Stage:
  - a. Jointly developed a user interface for extracting situational context from the users regarding their drinking water treatment problem.
  - b. Implementing the Multi-Criteria Decision Making (MCDM) methodology within the DSS to provide an optimal solution. In addition, a filtering mechanism was also incorporated to realize an MCDM solution with full resource compliance.



#### Reflections:

This project has been a realization journey that information about water treatment should not be taken for granted. Through the development of an expert-guidance system for technology selection, I feel both fortunate and glad that I have played a role in bringing the layperson closer to understanding the water that they drink everyday.