Preliminary Report Team: XX-NMSU-6D

## Selenium Removal

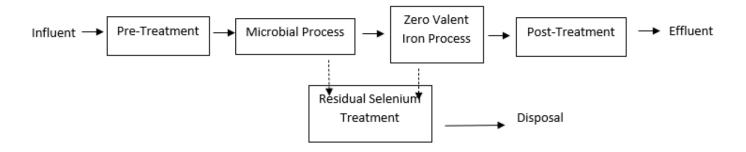
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## Objective:

This goal of this project is to develop a cost-effective treatment technique to Lower levels of selenate and selenite in water.

## Approaches:

- Use a combination of microbial and zero valent iron methods to achieve desired selenium levels.
- Utilize microbial process to remove majority of selenium at a lower cost before using ZVI to remove any further selenium necessary.
- Attempt to recover as much selenium as possible for external use.



## Test Plan:

The selenium before and after treatments will be analyzed by Inductively Coupled
Plasma Mass Spectrometry (ICP-MS).