

Project Status Report: CEE-2019CPST-002**Report Date: 3/2/2020****Team****Javen Ivins (Team Focal), Nathan Jensen, Masen Putnam****Members:****Project Title:****Spanish Fork City Water Demand Peak Shaving Project Description****1) Summary of technical/non-technical challenges encountered**

As we performed the cost analysis for creating a new storage facility a question that came up was "what amount should we design for?" In order to get a reasonable and accurate cost estimate we will need to make sure that we have an adequate amount of storage planned for.

2) Team approaches & resolutions to overcome challenges

We will need to dig into the Spanish Fork records and coordinate with Spanish Fork to determine a reasonable design capacity and design year. The peak shaving data from our previous analysis was used to determine different times that the storage would need to be upgraded if the peak was shaved by different amounts.

3) Status of challenge resolutions & potential project impact

Now that we have a rough cost estimate completed we will need to verify our data with Dr. Williams and Spanish Fork to make sure all of the necessary components were covered.

4) Project status & summary

We were able to complete a cost analysis for the new storage facility and determine the present value of costs using different scenarios. The different scenarios were based on our peak shaving data and the current amount of storage available to Spanish Fork.