

Project Status Report: CPST-0 16

Weekly Mtg: 03-18-24 EB 407 – 4:00p.m.

Team Members: Dylan Fitt(1), Bennett Price(2), Ian Mathews(3), Bryan Williams(4)

Project Title: Project 16

1) Summary of technical/non-technical challenges encountered

- We had a technical issue with our final data collection. We fortunately found that if the desired variables are selected in a different order when acquiring data from the sewer, the output data csv will order the columns differently so the analysis code we wrote was not working properly.
- We also had a challenge with documentation for the infiltration analysis. We didn't have the information readily available that was used for different variables which made labeling tables and figures difficult in the design, analysis, and results section of the report.

2) Team approaches & resolutions to overcome challenges

- To resolve the column issue in excel and with our code. We readapted the code to reorganize the columns no matter how they are output from the FLO-DAR sensor. This will make analyzing data more streamlined so that the columns don't need to be reorganized manually.
- For the information documentation, we have been able to go back and find the sources that were used. It took a little more time than anticipated, but needed to be done.

3) Status of challenge resolutions & potential project impact

- The status of the challenge resolutions are nearly complete. The code is fixed but documenting what was done for infiltration is being done as needed for figures and tables put into the report.
- Unrelated to the challenges, we still need to make a map from ArcGIS for the water basin delineation.

4) Project status & summary

- As a team, it is our estimate that we are 90% complete with the scope of our project. The remaining 10% largely includes completing our final report which we will also be submitting to Lane Pierce, our sponsor for this project and representative for the city of Provo, Utah. We will additionally be submitting a spreadsheet file deliverable to the city of Provo that utilizes VBA code within Microsoft Excel for future sewer audits. We have made an effort to follow the schedule for the project that we laid out in our scope of work from the previous semester (Fall 2023).

Please enter # of hours spent on project this last week for each team member in the order listed above

3/25/2024

Member #1: 1.5

Member #2: 4.5

Member #3: 7.5

Member #4: 2.5

Member #5: