

Project Status Report: CEEEn-2018CPST-010

Report Date: 10/27/2018

Team
Members: Los Hermanos
Project Title: Asian Clams Report # 4

1) Summary of technical/non-technical challenges encountered

Technical: Experimental problem

- Collecting, Handling and Disposing Clams - Need authorization from UT invasive Species Specialist.
- Water hydrant are connected to PI system and there are no back up systems
- Need to find out locations with highest concentrations of clams

Non-technical:

- Communication with Lehi staff (i.e. map of system)
- Biology basics about clams (i.e. how to tell whether they're alive or dead)
- Getting permission of Invasive Species with Nate Owens

2) Team approaches & resolutions to overcome challenges

Solutions:

- Study for any cities that have similar issues where they cannot drain their waterway on a yearly basis
- Study research provided by HA&L Engineer
- Study research provided by Dr. Miller
- Obtain historical pressure data from city of Lehi
- Create a protocol to handle clam samples and dispose them.
- Get in contact with the UT invasive species specialist to discuss specifics about collecting, handling and disposing clams

3) Status of challenge resolutions & potential project impact

- Unique situation as most cities have separate systems for irrigation and culinary water.
- Very Specific Days for system flushing. Will need to work around those days
- Chemicals to be injected into the system when the flow is low (i.e. during the winter)
- Historical pressure data may not be very helpful as pressure loss over time is mostly due to structural failure in the system

4) Project status & summary

- Completed a scoreboard to celebrate amount of hours worked per week
- Looking for ways to detect high population density locations in the pipe
- Will get authorization to collect, store, and dispose clams
- Visit Dr. Miller and talk about Lehi's condition and personal opinion of solution