## **IRA A. FULTON COLLEGE**

## CAPSTONE

**Report Date: 1/14/2019** 

## Project Status Report: CEEn-2018CPST-010 Team Members: Project Title: Asian Clams Report # 10

1) Summary of technical/non-technical challenges encountered 2) Team approaches & resolutions to overcome challenges Technical: Experimental problem Solutions: Tank for experimentation has been built Perform Calculations to design model. Pumps capacity for the experiment has been calculated • Set up experimental system to simulate constant flow and disperse chemical. • Water hydrant are connected to PI system and there are no back up systems Find out more about EarthTec QZ product regarding the residue per gallon. Calculate reservoir dimensions and flow for the model to simulate the system Coordinate with Earth Tec Salesman to get sample EarthTec QZ Non-technical: Set up tank experiment in Lehi. Biology basics about clams (i.e. how to tell whether they're alive or dead) • Figure how much water that will be used for the experiment. Pump with calculated capacity has been purchased . Coordinate the logistics of the experiment in Lehi. Money to get equipments for testing Need to transport tank to site . 3) Status of challenge resolutions & potential project impact 4) Project status & summary Looking for ways to simulate the correct amount of injected chemical to the • Will have to travel to Lehi at least weekly for the experiments Will need to figure out the correct amount of chemical to be injected to the model prototype. to simulate the actual chemical injected to the prototype Plan to setup the model in the field with Dr. Miller. Having communication issues with our mentors and other resources. . Get the Earth Tech sample to start the treatment calculations for the model Getting familiar with the Hach porphyrin ionic copper procedure. . calculations. Coordinating the setup of the model in the field with our clients. Finishing the construction of the control and treatment tanks.