

Project Status Report: CEEEn-2019CPST-007

Report Date: 2/18/2020

Team

Craig Goff, Grant Moss, Nathaniel Flores, Rachel Anderson

Members:

Project Title:

UDWR Dam Structures Damage-Remedial Project

1) Summary of technical/non-technical challenges encountered

Challenge: Finalizing blueprints for scaling test model

Challenge: Artificially creating a rodent burrow in compacted soil

Challenge: Finalizing material and lab costs

2) Team approaches & resolutions to overcome challenges

Challenge: Finalizing blueprints for scaling test model
Resolution: We have consulted with the lab manager on our final design and materials. We have met with our faculty mentor to finalize materials and dimensions. Dimensions have been finalized.

Challenge: Artificially creating a rodent burrow in compacted soil
Resolution: Using section of linear pvc piping, downsizing original dimensions

Challenge: Finalizing materials and lab costs
Resolution: Come up with materials list to determine cost. Consult lab manager to determine lab costs.

3) Status of challenge resolutions & potential project impact

Challenge: Finalizing blueprints for scaling test model
Status: Met with faculty advisor, dimensions and materials finalized

Challenge: Artificially creating a rodent burrow in compacted soil
Status: Using in series vertical & horizontal pvc pipes to create U shape while soil is being compacted

Challenge: Finalizing materials and lab costs
Status: Materials list completed. We will be consulting the lab manager later in the week.

4) Project status & summary

Calculations have been run to determine final dimensions of the experiment. The experiment is significantly smaller than the initial design dimensions. We are finalizing all materials, costs, and procedures. We have determined a material list, and the cost estimate is pending. The procedure is determined and understood by group members. We hope to begin construction of the experiment in the next two weeks to obtain our final results to see if seepage rate change occurs when adding grout to burrow holes.

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

Member #1: 4.5

Member #2: 7.5

Member #3: 6.5

Member #4: 5