



ses

school of environmental sciences

The Research Seminar Presentation by

Ashley Garland

will be held on

Tuesday March 13, 2018

At 2:00 pm

ALEXANDER HALL 265

Title: The characterization of solidified industrial sediment for use in agriculture

Abstract

This proposed greenhouse and lab study will provide insight into the potential re-use of liquid waste streams with the application of solidification reagents. Solidified sediments will be examined, water holding capacity, nutrient retention, drought tolerance and crop quality will be observed. The raw liquid waste streams that will be focused on are generated from: resource extraction, pipeline construction, dredging and conservation, as well as municipal applications. By solidifying and reusing these wastes, not only will the waste treatment costs for these projects decrease significantly, it will also play a role in realizing a circular economy. Soil re-use improves safety and reduces environmental impact of greenhouse gases from transportation, builds sustainable communities, protects natural resources, and protects the health of humans and the environment.

Everyone is welcome to attend

(This is a Research Proposal presentation by students in ENVS*6900)