

Chemical Engineering Thesis Defense

Permeability loss in soil due to Ferrous Iron precipitation

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Abstract

This study primarily aims to understand the scope and feasibility of iron precipitation in ground improvement applications. In that regard, the permeability loss of the sand column upon treatment with iron chemicals and precipitation over the period of ten to fourteen days is studied. Also, the various physical and chemical changes of the precipitated sand is studied through microscopy, pH changes. Amount of soluble iron unprecipitated is calculated with mass balance and ferrozine assays.



April 15, 2021; 2 PM;

Zoom Link: <https://asu.zoom.us/j/87683415680>