***Original Research Article***

**Validating Visual Modflow Numerical Model To Predict Future Impact Of Brine Disposal On Groundwater**

**ABSTRACT**

The aim of this research was to simulate the brine disposal fate within an aquifer. The Visual MODFLOW numerical code was used to predict the salt concentration emigration over time in an aquifer. The model was calibrated using laboratory experiment data. The model results revealed that there is an acceptable agreement between the observed and simulated data.

Keywords: Desalination; Injection well; discharge well; salt concentration; aquifer