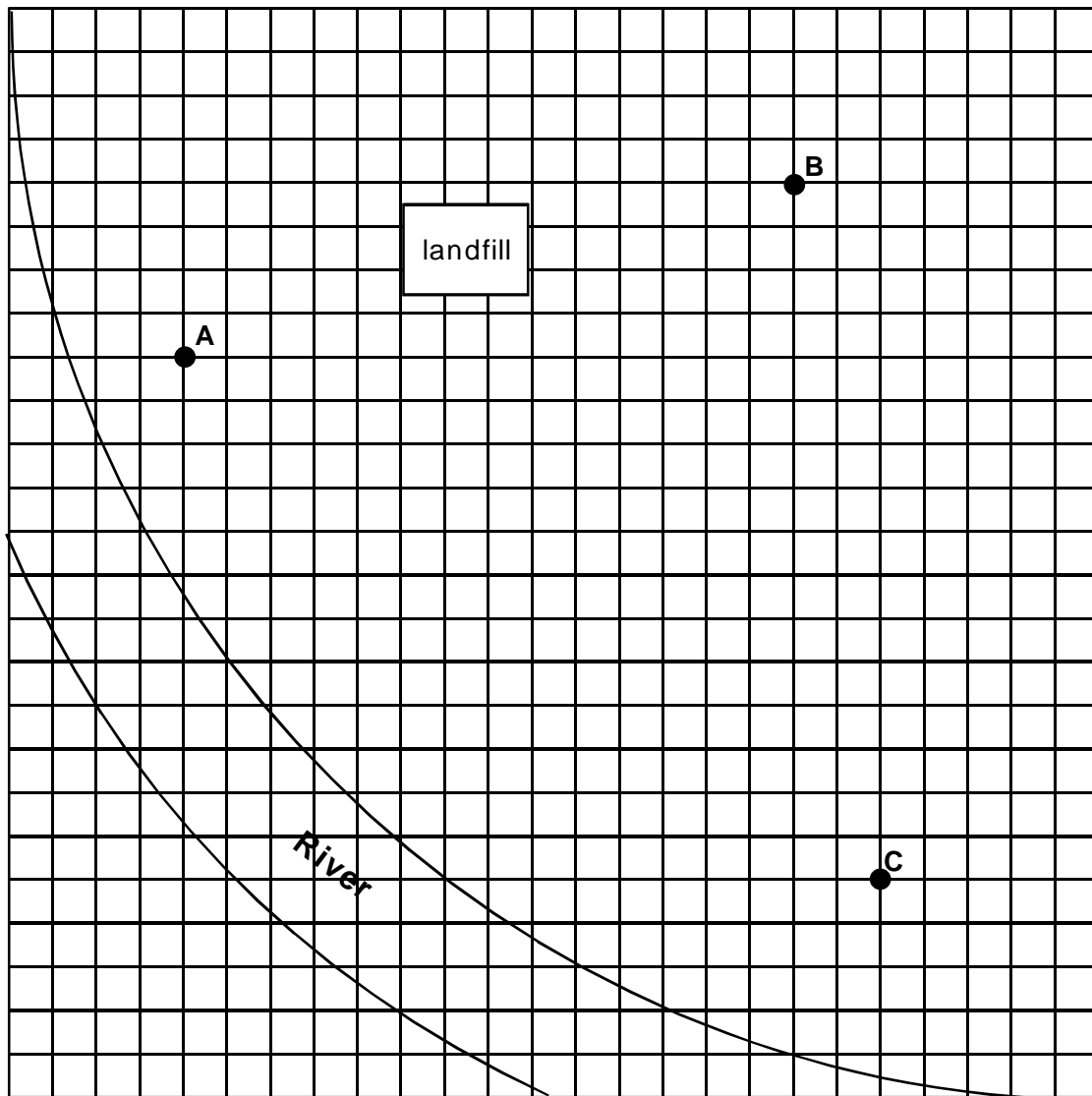


Name: \_\_\_\_\_  
January 17, 2000

## Introduction to Ground-Water Modeling 15-040-602

### Second exercise



The map above shows the locations of three piezometers drilled to a confined aquifer having a porosity of 23% and a hydraulic conductivity of 155 ft/day. Each grid square on the map is 100 feet per side. The well-head elevations of A, B, and C are 155.3, 163.98, and 148.3 feet respectively. The measured depths to water are 23.2, 33.8, and 18.6 feet respectively. Assuming that both the river and landfill penetrate to the aquifer how quickly will it take leachate from the landfill to reach the river. Show all work