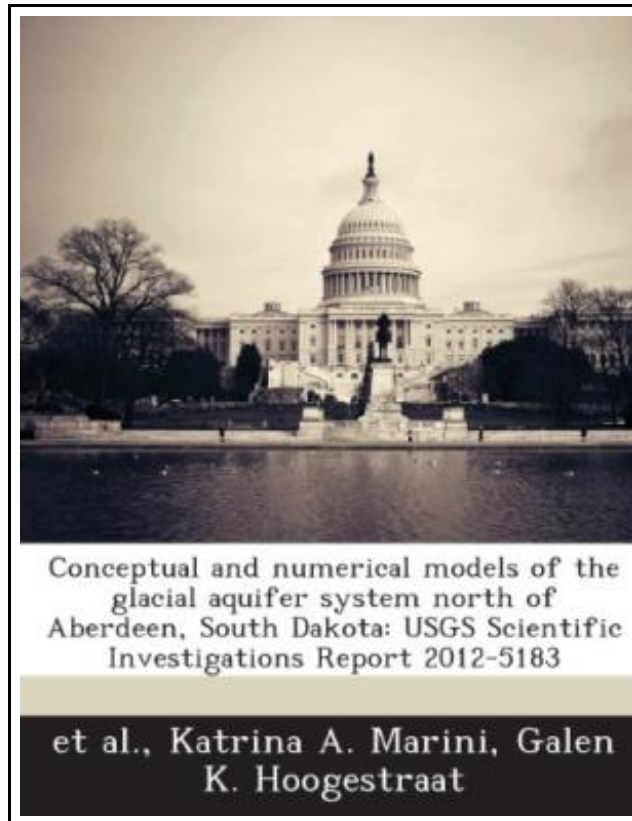# Conceptual and Numerical Models of the Glacial Aquifer System North of Aberdeen, South Dakota: Usgs Scientific Investigations Report 2012-5183

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CONCEPTUAL AND NUMERICAL MODELS OF THE GLACIAL AQUIFER SYSTEM NORTH OF ABERDEEN, SOUTH DAKOTA: USGS SCIENTIFIC INVESTIGATIONS REPORT 2012-5183

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 116 pages. Dimensions: 9.7in. x 7.4in. x 0.2in.This U. S. Geological Survey report documents a conceptual and numerical model of the glacial aquifer system north of Aberdeen, South Dakota, that can be used to evaluate and manage the city of Aberdeens water resources. The glacial aquifer system in the model area includes the Elm, Middle James, and Deep James aquifers, with intervening confining units composed of glacial till. The Elm aquifer ranged in thickness from less than 1 to about 95 feet (ft), with an average thickness of about 24 ft; the Middle James aquifer ranged in thickness from less than 1 to 91 ft, with an average thickness of 13 ft; and the Deep James aquifer ranged in thickness from less than 1 to 165 ft, with an average thickness of 23 ft. The confining units between the aquifers consisted of glacial till and ranged in thickness from 0 to 280 ft. The general direction of groundwater flow in the Elm aquifer in the model area was from northwest to southeast following the topography. Groundwater flow in the Middle James aquifer was to the southeast. Sparse data indicated a fairly flat potentiometric surface for the Deep James aquifer. Horizontal hydraulic conductivity for the Elm aquifer determined from aquifer tests ranged from 97 to 418 feet per day (ftd), and a confined storage coefficient was determined to be 2. 4x10-5. Estimates of the vertical hydraulic conductivity of the sediments separating the Elm River from the Elm aquifer, determined from the analysis of temperature gradients, ranged from 0. 14 to 2. 48 ftd. Average annual precipitation in the model area was 19. 6 inches per year (inyr), and agriculture was the primary land use. Recharge to the Elm aquifer...

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