

Appendix E

Geologic Data Sources

Table E-1. Geologic data sources used in construction of model

Study	Description of Data
Geologic atlas of Carver County (Mossler and Chandler, 2009) ¹	Digital elevation models of bedrock surfaces, bedrock geology contacts
Geologic atlas of Scott County (Runkel and Tipping, 2006)	Digital elevation models of bedrock surfaces, bedrock geology contacts
Geologic atlas of Chisago County (Runkel and Boerboom, 2010) ¹	Digital elevation models of bedrock surfaces, bedrock geology contacts
Geologic atlas of Nicollet County (Mossler and Chandler, 2011) ¹	Digital elevation models of bedrock surfaces, bedrock geology contacts
Geologic atlas of Sibley County (Mossler and Chandler, 2011) ¹	Digital elevation models of bedrock surfaces, bedrock geology contacts
Digital elevation models for bedrock surfaces within the seven-county metropolitan area (Tipping and Mossler, 1996);	Digital elevation models for the tops of the St. Peter Sandstone, Prairie du Chien Group, Jordan Sandstone, and St. Lawrence Formation within the seven-county metropolitan area
Geology in support of groundwater management for the northwestern Twin Cities Metropolitan Area (Runkel and others, 2003b)	Digital elevation models for the top of the Eau Claire Formation, Ironton-Galesville Sandstone, Mt. Simon Sandstone, and Precambrian crystalline bedrock in the northwest metro area
Geologic Atlas of Anoka County (Mossler, 2011) ¹	Bedrock contacts
Minnesota County Well Index (CWI) (Minnesota Department of Health, 2012) ¹	Geologic stratigraphy
Bedrock geology and structure of the seven-county Twin Cities metropolitan area (Mossler, and Tipping, 2000)	Bedrock contacts, bedrock structure
Bedrock geology of the Hastings Quadrangle, Dakota, Goodhue, and Washington Counties (Mossler, 2006)	Bedrock contacts, bedrock structure, elevation contours for the top of the Jordan Sandstone.
Bedrock geology of the Vermillion Quadrangle, Dakota County (Mossler, 2006)	Bedrock contacts, bedrock structure, elevation contours for the top of the Jordan Sandstone.
Bedrock geology of the Prescott Quadrangle, Washington and Dakota Counties (Mossler, 2006)	Bedrock contacts, bedrock structure, elevation contours for the top of the Jordan Sandstone.
Bedrock geology of the St. Paul Park Quadrangle, Washington and Dakota Counties (Mossler, 2006)	Bedrock contacts, bedrock structure, elevation contours for the top of the Jordan Sandstone.
Bedrock geology of the Hudson Quadrangle, Washington County (Mossler, 2005)	Bedrock contacts, bedrock structure, elevation contours for the top of the Jordan Sandstone.
Bedrock geology of the Stillwater Quadrangle, Washington County (Mossler, 2005)	Bedrock contacts, bedrock structure, elevation contours for the top of the Jordan Sandstone.
Geologic contact models for Dakota County (excluding the Hastings area) (Olsen, 2008) ¹	Elevation contours for the top of the Jordan Sandstone and top of the Prairie du Chien Group
Digital elevation models of bedrock units in Goodhue, Rice, Le Sueur, and Isanti counties, (Metropolitan Council, 2011) ¹	Digital elevation models of bedrock units in Goodhue, Rice, Le Sueur, and Isanti counties, MN
A hydrogeologic and mapping investigation of the St. Lawrence Formation in the Twin Cities metropolitan area. (Runkel, and others 2006)	Bedrock contacts
Geologic map of Minnesota, bedrock geology (Jirsa and others 2011) ¹	Bedrock contacts, fault locations

¹Data included in Metro Model 3 that was not part of Metro Model 2.1.