



**Map Explanation**

**Water sample and aquifer symbols**  
Symbol color indicates tritium age of water sample. See Figure 5 in the report for geologic unit correlation.

**Unconsolidated aquifers**

- csa
- ✕ csr
- ▲ cse
- ⊕ rs
- ⊕ bsg
- ◆ os
- ⊕ ds
- dg
- ⊕ scs

**Bedrock**

- Hinckley
- Fond du Lac
- ◆ Precambrian crystalline

**Tritium age**  
Symbol color indicates tritium age of water sample.

- Recent: water entered the ground since about 1953 (8 to 15 tritium units [TU]).
- Mixed: water is a mixture of recent and vintage (greater than 1 TU to less than 8 TU).
- Vintage: water entered the ground before 1953 (less than or equal to 1 TU).
- Not sampled for tritium.

**Symbols and labels**

- 17.6 Chloride: if shown, concentration is ≥5 ppm. (\* source unknown)
- 15.6 Arsenic: if shown, concentration is ≥2 ppb.
- 209 Manganese: if shown, concentration is ≥100 ppb.
- 1.97 Nitrate: if shown, concentration is ≥1 ppm.
- 1100 Carbon-14 (<sup>14</sup>C): estimated groundwater residence time in years.
- Surface water
- E Groundwater sample with evaporative signature
- A—A' Line of cross section (Part B)
- Body of water

**Groundwater conditions**

- ① Water from the surface moves through a thin layer of overlying fine-grained material to an underlying aquifer.
- ② Groundwater moves from an overlying surficial aquifer to a buried aquifer.
- ③ Groundwater moves from an overlying buried aquifer to an underlying buried aquifer.
- ④ Groundwater flows laterally.
- ⑤ Tritium concentrations can be artificially elevated by high volume pumping.
- ⑥ Groundwater flowpath is unknown.

SCALE 1:100 000

1 0 1 2 3 4 5 MILES

1 0 1 2 3 4 5 KILOMETERS

This map was compiled and generated in a geographic information system. Digital data products are available from at DNR Groundwater Atlas Program page (mndnr.gov/groundwatermapping).

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Base modified from Minnesota Geological Survey, Geologic Atlas of Kanabec County, 2016. Universal Transverse Mercator projection, zone 15N, North American Datum of 1983. North American Vertical Datum of 1988.

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