

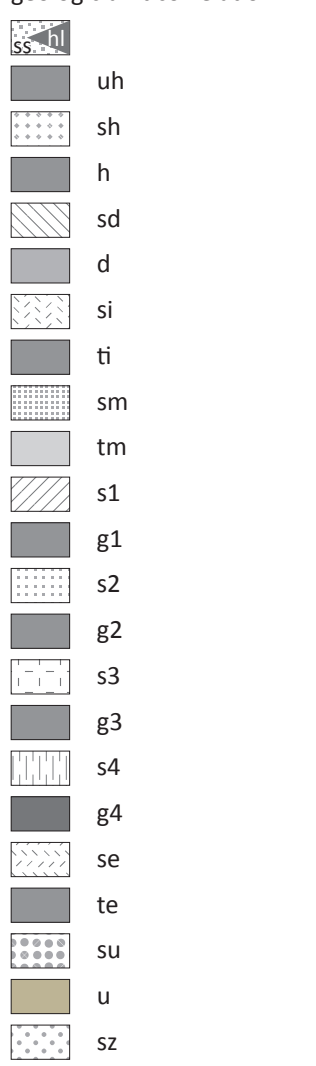
### Cross Section Explanation

## Aquifers and aquitards

Interpreted tritium age is indicated by background color.

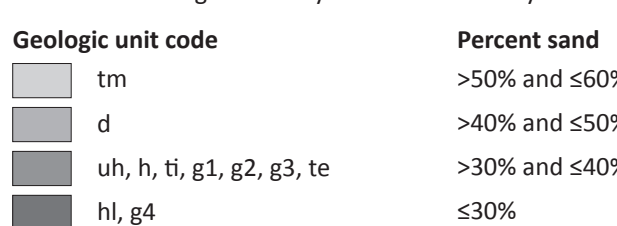
**Quaternary unconsolidated**

See Figure 5 in the report for geologic unit correlation.



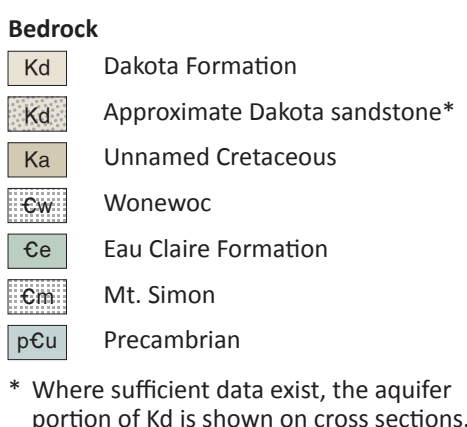
### Quaternary aquitards

Grouped by texture ranging from highest to lowest sand content indicating relative hydraulic conductivity.



bedrock

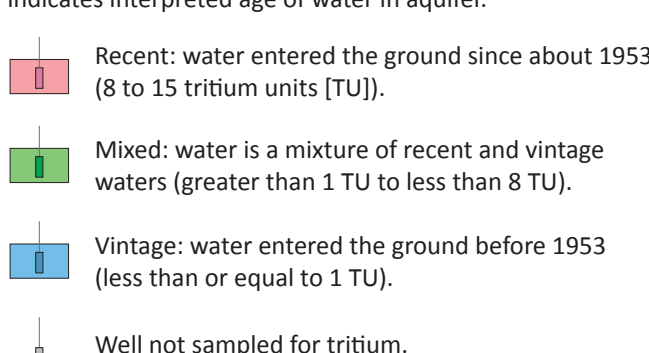
Interpreted tritium age is indicated by pattern color.



Where sufficient data exist, the aquifer portion of  $K_d$  is shown on cross sections.

## Tritium age

Darker color in small vertical rectangle (well screen symbol) indicates tritium age of water sampled in well. Lighter color indicates interpreted age of water in aquifer.



Well not sampled for tritium.

## Symbols and labels

- 12.2\* Chloride: if shown, concentration is  $\geq 5$  ppm.  
(\* naturally elevated, \* source unknown)
- 18.8 Arsenic: if shown, concentration is  $\geq 2$  ppb.
- 9.34 Manganese: if shown, concentration is  $\geq 100$  ppb.
- 135 Nitrate: if shown, concentration is  $\geq 1$  ppm.
- 6000 Carbon-14 ( $^{14}\text{C}$ ): estimated groundwater residence time in years
- General groundwater flow direction
- Approximate equipotential contour;  
contour interval 20 feet
- Geologic contact
- Land or bedrock surface
- Water table

### 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 Groundwater flowpath is unknown.
- ⑥ Groundwater discharges to a surface-water body.

### Symbols

- Well used to generate cross section
- $A'$  Part B line of cross section
- $A'$  Part A line of cross section



This map was compiled and generated in a geographic information system. Digital data products are available from the DNR County Atlas Program [page](http://mndnr.gov/groundwatermapping) ([mndnr.gov/groundwatermapping](http://mndnr.gov/groundwatermapping)).

This map was prepared from publicly available information. Every reasonable effort has been made to ensure the accuracy of the factual data on which this map interpretation is based. However, the DNR does not warrant the accuracy, completeness, or any implied uses of these data. Users may wish to verify critical information; sources include both the references in the report and information on file in the offices of the Minnesota Geological Survey and the DNR. Every effort has been made to ensure the interpretation shown conforms to sound geologic and cartographic principles. This map should not be used to establish legal title, boundaries, or locations of improvements.

Base modified from Minnesota Geological Survey,  
Brown County Geologic Atlas, Part A, 2016.

Universal Transverse Mercator projection, zone 15N,  
North American Datum of 1983. North American  
Vertical Datum of 1988.



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