

Cross Section Explanation

**Aquifers and aquitards**  
**Quaternary unconsolidated**  
Interpreted tritium age is indicated by background color. See Figure 2 in the report for geologic unit correlation.

- fi
- al
- pe
- sc
- co
- te
- lo
- no
- mt
- bu
- bs
- bl
- rs
- rc
- es
- eu
- rg
- eb
- us

**Bedrock**  
Interpreted tritium age is indicated by pattern color. See Figure 4 in the report for geologic unit correlation.

- Odu Dubuque Formation\*
- Ogs Stewartville
- Opc Prosser
- Ogc Cummingsville
- Ocl Decarah Shale\*
- Opg Platteville and Glenwood formations\*
- Opl St. Peter
- Ope Shakopee
- Opo Oneota Dolomite\*
- Oj Jordan
- Cs St. Lawrence Formation\*

\*aquitard

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

- | Geologic unit code | Percent sand  |
|--------------------|---------------|
| mt                 | >50% and ≤60% |
| rc                 | >40% and ≤50% |
| bl, bu, eb, eu     | >30% and ≤40% |

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

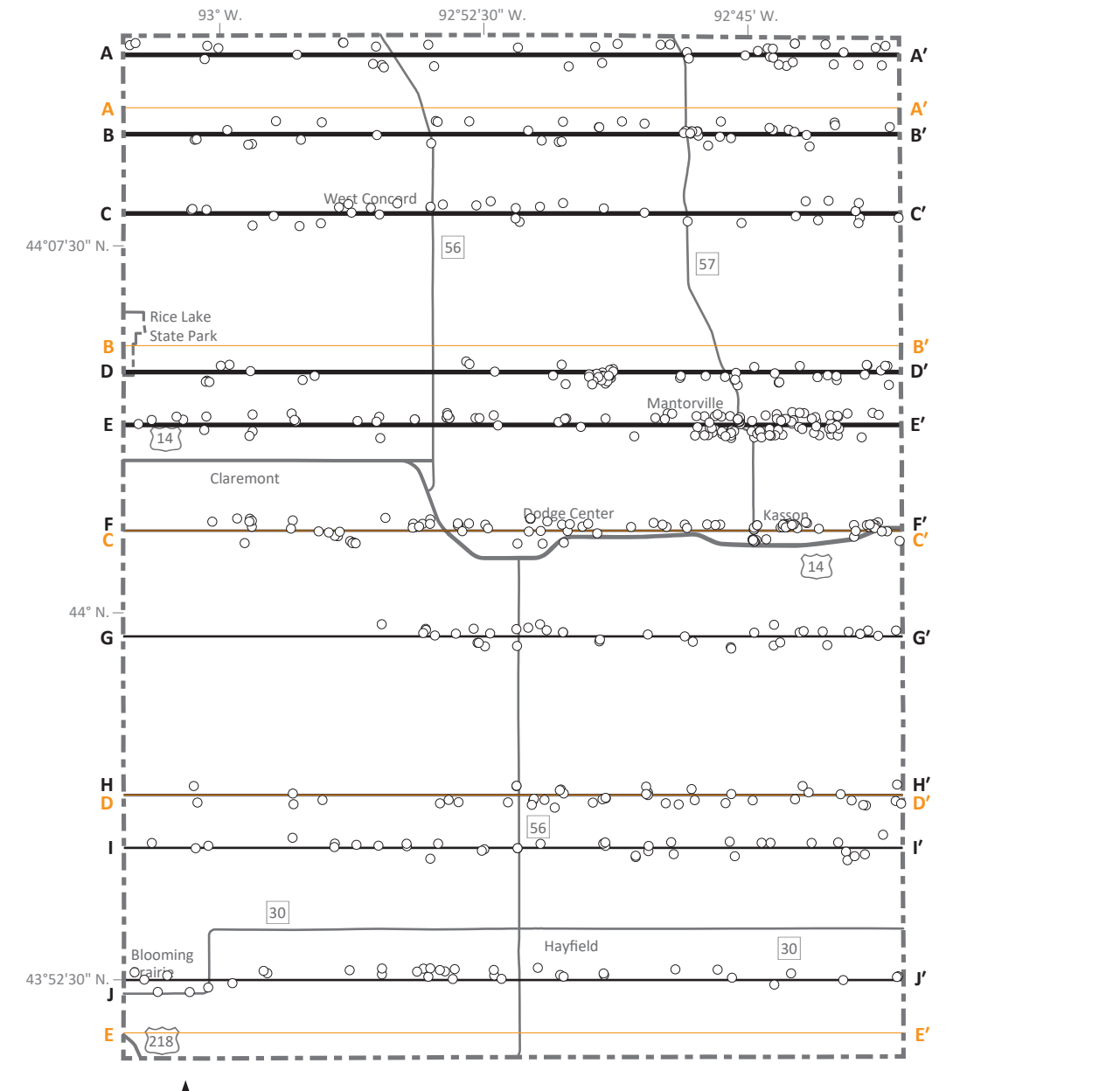
- Modern: water entered the ground after 1953.
- Mixed: water is a mixture of modern and premodern waters.
- Mostly premodern\*: water entered the ground before 1953 but may contain a small amount of modern water.
- Well not sampled for tritium.

\*These samples are referred to as "premodern" in the report. Both "mostly premodern" and "premodern" are shown on plates and figures for consistency with the dataset.

- Symbols and labels**
- 25.8 Chloride: if shown, concentration is ≥5 ppm. (\*naturally elevated)
  - 3.64 Nitrate: if shown, concentration is >1 ppm.
  - 600 Carbon-14 (14C): estimated groundwater residence time in years
  - General groundwater flow direction
  - Approximate equipotential contour; contour interval 50 feet
  - Geologic contact
  - Land or bedrock surface
  - Enhanced-permeability zone

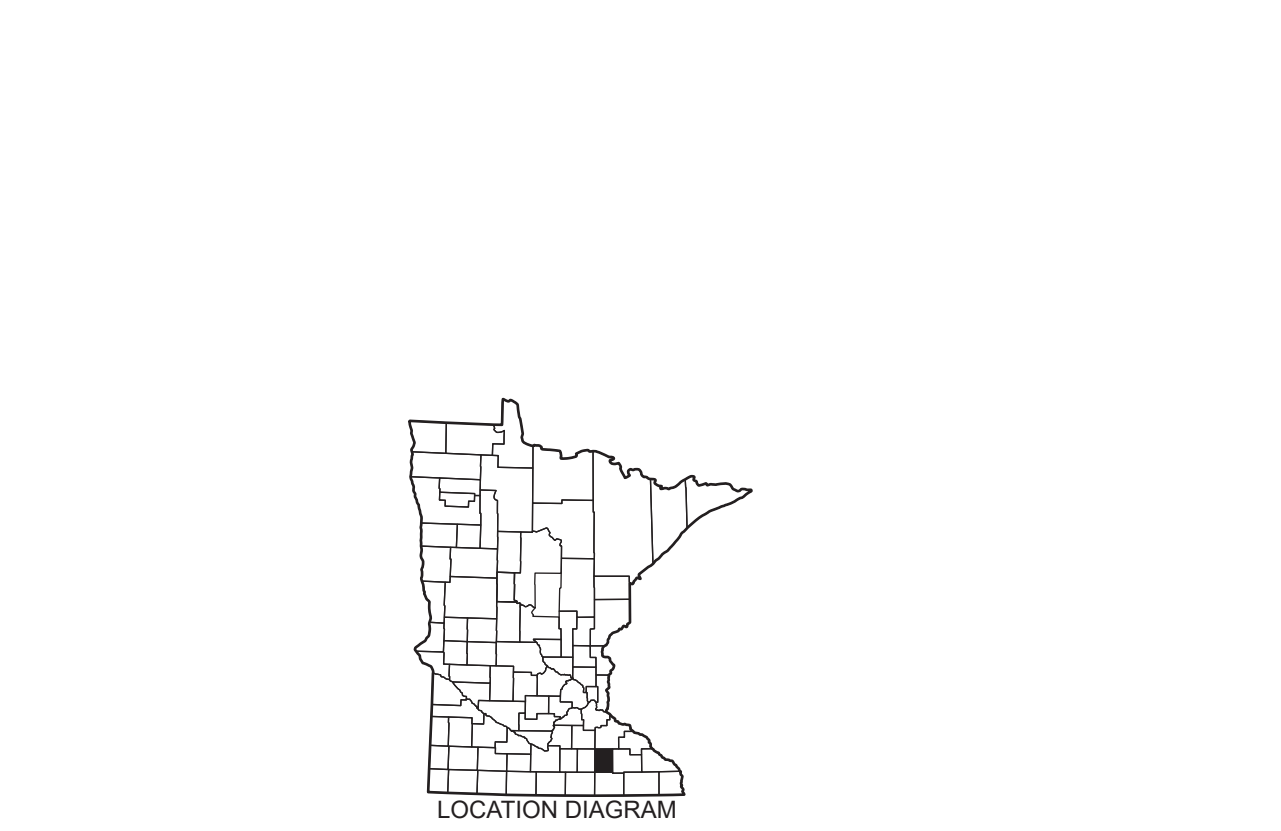
**Groundwater conditions**

- Lateral flow: aquifer may have received lateral recharge from upgradient areas of higher pollution sensitivity.



**Symbols**

- Well used to generate cross section
- A-A' Part B line of cross section shown on this plate
- F-F' Part B line of cross section shown on Plate 9
- A-A' Part A line of cross section



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