

Cross Section Explanation

**Aquifers and aquitards**  
Interpreted tritium age is indicated by background color.

**Quaternary unconsolidated**  
See Figure 2 in the report for geologic unit correlation.

lk	ht
al	hl2
lc	ht2
ou	hs3
iwl	ht3
rpt	scs
rt0	sct
rls	sct2
rlt	mls
gss	mlt
gst	shs
nhi	sht
nht	urt
ons	qsu
ht0	qu
hs	

**Bedrock**  
bdrk

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

Geologic unit code	Percent sand
ht0, ht, ht2, ht3, ont, urt	>50% and ≤60%
nhi, nht, sct, sct2, sht	>30% and ≤40%
gst, hl2, iwl, lc, mlt, rt0, rt, rpt	≤30%

**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.

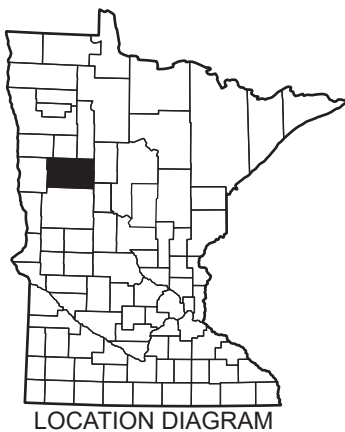
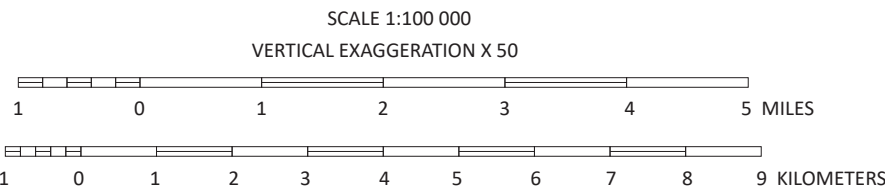
- Modern: water entered the ground after 1953.
- Mixed: water is a mixture of modern and premodern waters.
- Mostly premodern\*: water likely entered the ground before 1953 but may contain a small amount of modern water.
- Well not sampled for tritium.

\*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

- 9.22\* Chloride: if shown, concentration is ≥5 ppm. (\* naturally sourced, \*source not determined)
- 3.70 Arsenic: if shown, concentration is ≥2 ppb.
- 689 Manganese: if shown, concentration is ≥100 ppb.
- 1.27 Nitrate: if shown, concentration is >1 ppm.
- <100 Carbon-14 (14C): estimated groundwater residence time in years
- E Groundwater sample with evaporative signature
- General groundwater flow direction
- Approximate equipotential contour; contour interval 25 feet
- Geologic contact
- Land or bedrock surface
- Water table
- Flowing well

**Groundwater conditions**  
Lateral flow: aquifer may have received lateral recharge from upgradient areas of higher pollution sensitivity.  
Discharge: older water upwelled from deep aquifers and discharged to shallow aquifers.



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

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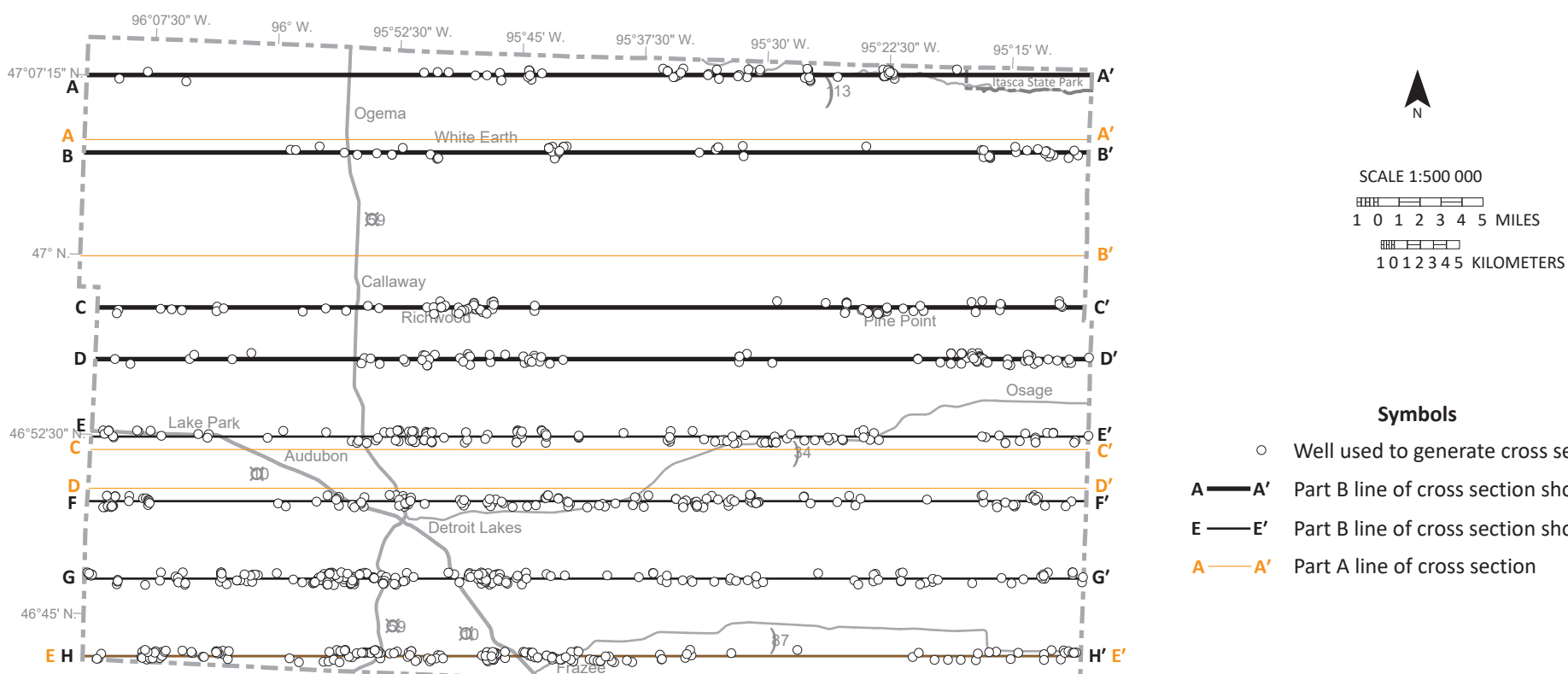
Base modified from Minnesota Geological Survey, Geologic Atlas of Becker County, 2016. Universal Transverse Mercator projection, zone 15N, North American Datum of 1983. North American Vertical Datum of 1988.

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SCALE 1:500,000  
1 0 1 2 3 4 5 MILES  
1 0 1 2 3 4 5 KILOMETERS

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