Hydrogeologic Cross Sections

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CROSS SECTION EXPLANATION

Trinitium age

Darker color in small vertical format (red square symbol) indicates trinitium age of water sampled in well. The color in the surrounding area indicates interpolated age of water in aquifer.

Recent: water entered the ground since about 1953 (0 to 15 trinitium and Tritium)

Mixed: water in mixture of recent and vintage waters (greater than 15 to less than 5 Tritium)

Vintage: water contained the ground before 1953 (less than or equal to 5 Tritium)

Well was not sampled for tritium.

Symbols and labels

\* Shown, chloride concentration equals or exceeds 5 parts per million

\* Shown, nitrate-nitrogen concentration equals or exceeds 1 part per million

\* Shown, groundwater residence time in years, estimated by carbon-14 (14C) isotope analysis

Groundwater flow direction

Geologic contact

Land or floodplain surface

Water table

Aquifer and aquitards grouped by stratigraphy

Confined

Bedrock

Color overlay indicates tritium age

Buried sand and gravel

Geologic unit code

Recent: water entered the ground since about 1953

Mixed: water is a mixture of recent and vintage waters (greater than 1 TU to less than 8 TU)

Vintage: water contained the ground before 1953 (less than or equal to 5 TU)

Quaternary aquifers

Unconfined

Percent sand

Enhanced-permeability zone

Groundwater condition

Groundwater moves from an underlying aquifer to a buried aquifer

Groundwater moves from an underlying buried aquifer to an underlying buried aquifer

Groundwater discharge from a buried aquifer to surface water

Groundwater exchange

Groundwater flowpath is unknown (deep groundwater with recent or mixed tritium age)

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The data is available in digital format for research.

Geologic atlas of Blue Earth County, Minnesota

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The DNR Information Center

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