GEOHYDROLOGY OF THE IRONDEQUOIT CREEK BASIN NEAR ROCHESTER, NEW YORK

GROUND-WATER RECHARGE AREAS

Ground water occurs in the surficial deposits nearly everywhere in theIrondequoit Creek basin. However, the quantities recoverable and the areas of maximum recovery vary considerably in different parts of the basin. The recharge areas shown on the map illustrate where the surficial aquifers and their associated ground water are sufficiently permeable to allow the percolation of recharge to move essentially unimpeded to the underlying highly water-saturated areas of the basin. The recharge areas shown on the map are nearly impermeable or are in discharge areas.

A significant amount of ground water is transmitted through the northern part of the Irondequoit Creek basin, which occupies the least part of the basin adjacent to the north. The basin area is well known for its abundant recharge areas and its relatively high water table. The recharge areas shown on the map are nearly impermeable or are in discharge areas.

REFERENCES


REFERENCES


EXPLANATION

GROUND-WATER RECHARGE AREAS

- HORIZONTAL WELL
- PERCOLATION: PERCOLATION VALLEY—location approximate
- RECHARGE AREA: recharge area largely covered by surficial deposits

Recharge Areas and Relative Recharge Rates

- SURFACE WATER AND STREAMS: increase in surface and stream recharge
- GROUNDWATER: recharge area — high
- GROUNDWATER: discharge area — moderate
- GROUNDWATER: discharge area — low