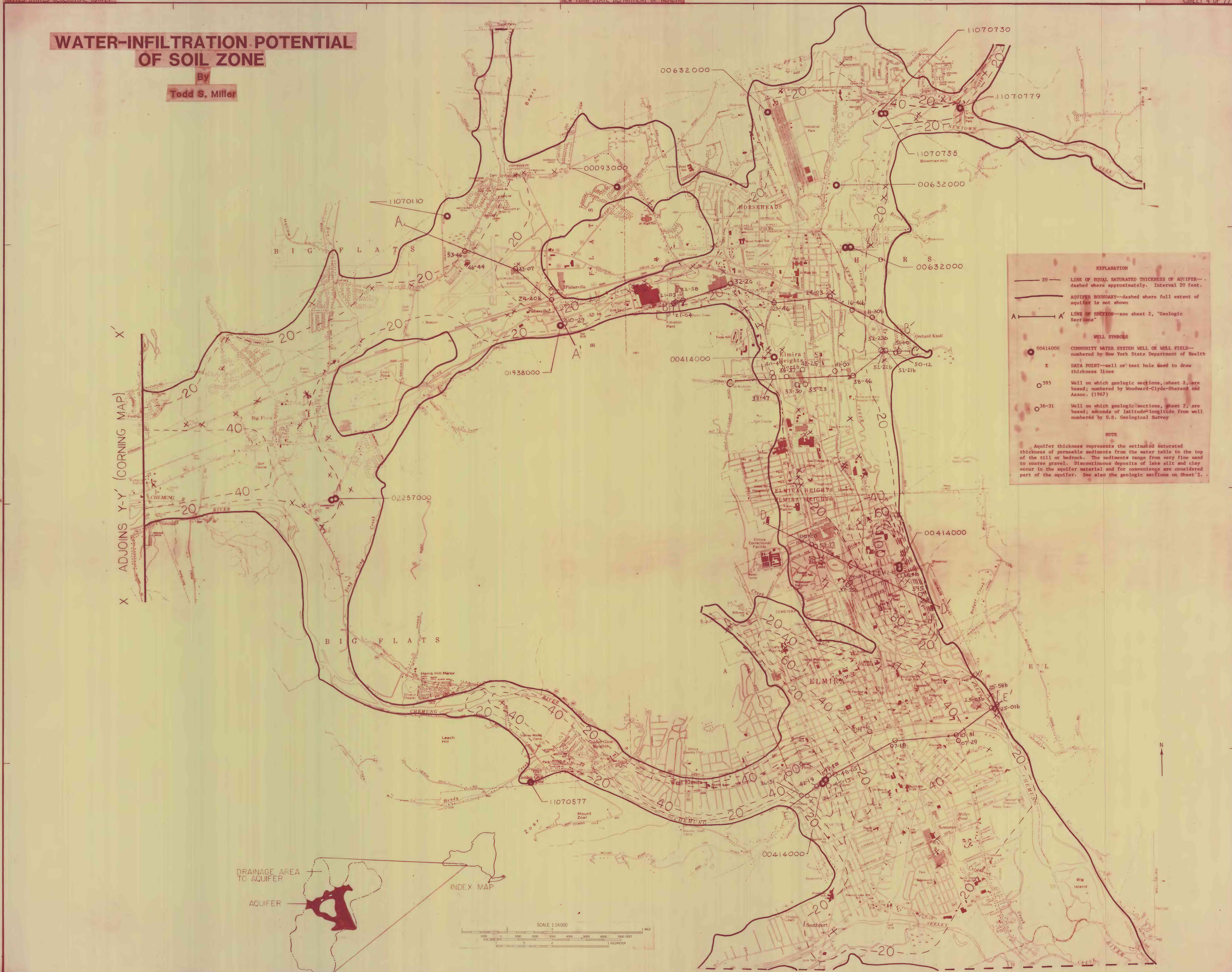
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW YORK STATE DEPARTMENT OF HEALTH

OPEN-FILE REPORT 82-110
(SHEET 4 OF 7)

WATER-INFILTRATION POTENTIAL OF SOIL ZONE

By
Todd S. Miller



EXPLANATION

—— 20 —— LINE OF EQUAL SATURATED THICKNESS OF AQUIFER--dashed where approximately. Interval 20 feet.

AQUIFER BOUNDARY--dashed where full extent of aquifer is not shown

A —— A' LINE OF SECTION--see sheet 2, "Geologic Sections"

WELL SYMBOLS

00414000 COMMUNITY WATER SYSTEM WELL OR WELL FIELD--numbered by New York State Department of Health

X DATA POINT--well or test hole used to draw thickness lines

595 Well on which geologic sections, sheet 2, are based; numbered by Woodward-Clyde-Sherard and Assoc. (1967)

36-31 Well on which geologic sections, sheet 2, are based; seconds of latitude-longitude from well numbered by U.S. Geological Survey

NOTE

Aquifer thickness represents the estimated saturated thickness of permeable sediments from the water table to the top of the till or bedrock. The sediments range from very fine sand to coarse gravel. Discontinuous deposits of lake silt and clay occur in the aquifer material and for convenience are considered part of the aquifer. See also the geologic sections on Sheet 2.

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION
BIG FLATS, N.Y., 1978; ELMIRA, N.Y., 1978; SEELEY CREEK, N.Y.-PA., 1978; HORSEHEADS, N.Y., 1978. 1:24,000

GEOHYDROLOGY OF THE VALLEY-FILL AQUIFER IN THE ELMIRA AREA, CHEMUNG COUNTY, NEW YORK

1982

HYDROLOGY MAPPED IN 1981