SURFICIAL GEOLOGY OF THE WILLSEYVILLE 7.5-MINUTE QUADRANGLE, TIOGA AND TOMPKINS COUNTIES, NEW YORK

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National Cooperative Geologic Mapping Program (STATEMAP)

DESCRIPTION OF MAP UNITS

Holocene

Af Artificial Fill (Af)
Surface sediment composed of c Cassel fill and or crushed rock anthropogenically transported and used for construction purposes.

Ha Stratified silt, sand and gravel (Ha)
Sorted and stratified silt, sand, and gravel, deposited by rivers and streams. May include cobbles and boulders. Inferred as post-glacial alluvium and includes modern channel, over-bank, and fan deposits.

Hw Wetland Deposit (Hw)
Peat, mud, silt, clay or sand deposited in association with wetland environments. Various sediments can be present at transitional boundaries from one facies to another.

Hdc Diamict Colluvium (Hdc)
Unsorted and unstratified deposit of gravel, sand, silt, clay, with boulders/cobbles possible. Described as a mass-wasting deposit at the base of deep hillslopes and cliffs as part of a slump or hillside failure.

Pleistocene

Pls Silty and Clayey Sediment (Pis)
Stratified, fine-grained sediment consisting of fine sand, silt and clay-size particles. Inferred to be deposited in mid-shore to deeper settings of glacial lakes. May include marl, rythmites, and varves.

Psg Well-sorted and stratified sand and gravel. May include cobbles and boulders. Inferred to be delta, fan or lag deposits in glacial channels or near former ice margins.

Pd Diamict (Pd)
An admixture of unsorted sediment ranging from clay to boulders. Generally matrix-supported, massive and clay-rich.

Pdcs Diamict (Pdcs)
An admixture of unsorted sediment ranging from clay to boulders. Generally clay-supported, massive and clay-rich.

Pre-Pleistocene

Sediments (Sr)
Non-glaciotectonic derived, hard rock, pre-paleocontinental in age. May be covered up to a meter in diameter, sand and gravel, or sand and clay lenses marked as Sr.

1:75,000 scale; 2x vertical exaggeration

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Surveys, maps, and data were collected, compiled, and interpreted by the New York State Department of Environmental Conservation, State Soil and Water Conservation Districts, and others.

Streams, highways, county lines, and roads are shown in black, typically 1/8" wide. 1 inch = 1 mile. Green lines are 1/16" wide. 1 inch = 1/2 mile. Blue lines are 1/32" wide. 1 inch = 1 mile. These data were used to produce the map as a final product. All information on this map is derived by the New York State Department of Environmental Conservation and is believed to be accurate as of its publication date. However, due to the nature of the subject matter, no warranty is made, expressed or implied, concerning the accuracy or completeness of the data on this map. This map is not a substitute for the entire New York State Environmental Conservation Law and regulations. This map is intended for general informational use only and should not be regarded as a substitute for or a replacement of any existing or authorized data source. Use of this map is at your own risk. The user assumes all risk and liability for using this map. The New York State Department of Environmental Conservation will not be liable for any damages resulting from the use of this map. The New York State Department of Environmental Conservation makes no representation or warranty, expressed or implied, with respect to its accuracy, completeness, or usefulness for any particular purpose or scale.