SURFICIAL GEOLOGY OF THE WEST GROTON 7.5-MINUTE QUADRANGLE, CAYUGA AND TOMPKINS COUNTIES, NEW YORK

Holocene

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 to pre-glacial alluvium and includes modern channel, overbank and fan deposits.

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

Pics-hw
Ice Contact Silt and Clay (Pics-hw)
Stratified, fine-grained sediment consisting of fine sand, silt and clay-size particles. Constrained to isolated pockets, inferred to be deposited in circular depressions within or on former ice sheets.

Ps
Well-sorted and stratified sand, deposited by fluvial, lacustrine or eolian processes. Inferred as deposits associated with distal-glacial environments.

Psdg
Stratified sand and gravel (Psdg)
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 ice margins.

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

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

Pre-Pleistocene

Br
Bedrock (Br)
Non-glacially derived, hard rock, pre-pleistocene in age. May be covered up to a meter in diamict, sand, and gravel, or sand and clay in swales, mapped as Br.

DESCRIPTION OF MAP UNITS

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program. A award number 30976-0015 in the year 2018.

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