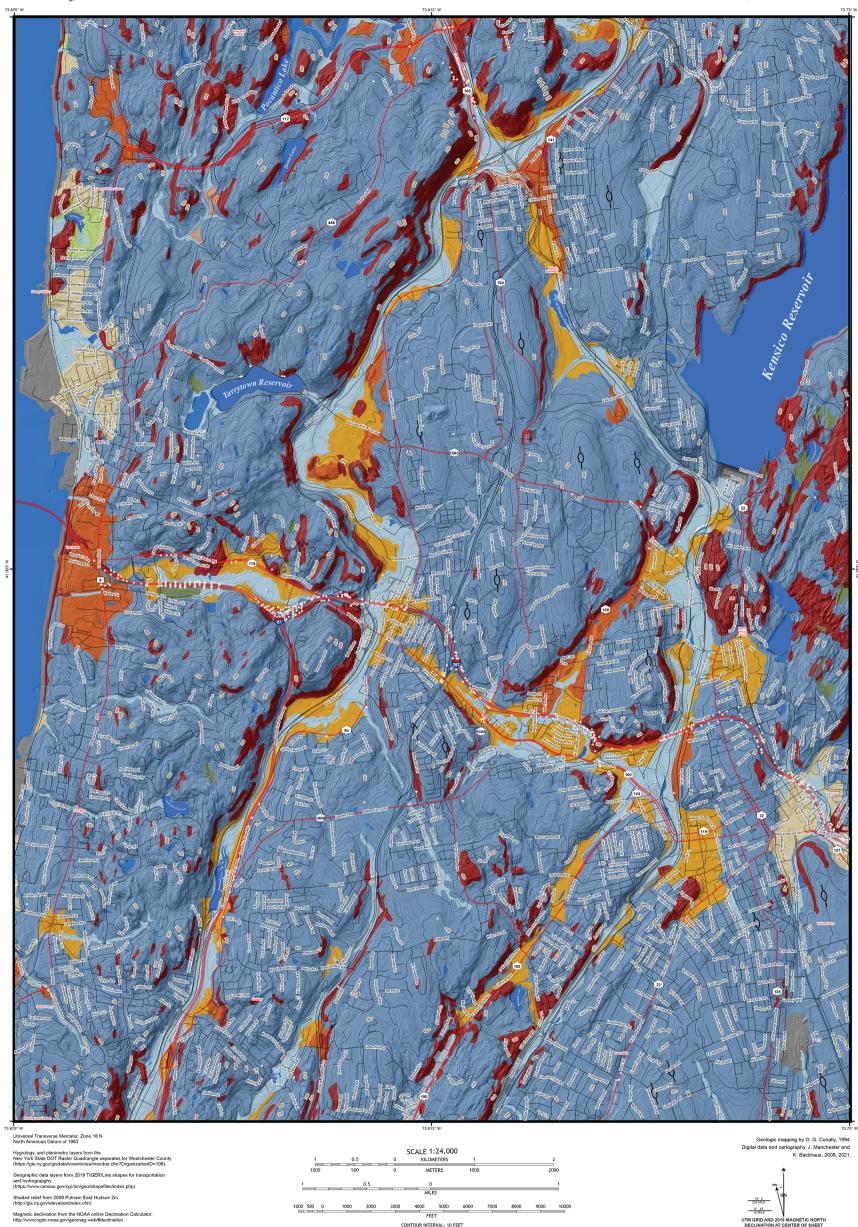
New York State Museum

New York State Geological Survey Dr. Andrew L. Kozlowski, Director



SURFICIAL GEOLOGY OF THE WHITE PLAINS 7.5-MINUTE QUADRANGLE, WESTCHESTER COUNTY, NEW YORK

G. Gordon Connally and Les Sirkin 2009

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prepared by
Janet Manchester and Karl J. Backhaus

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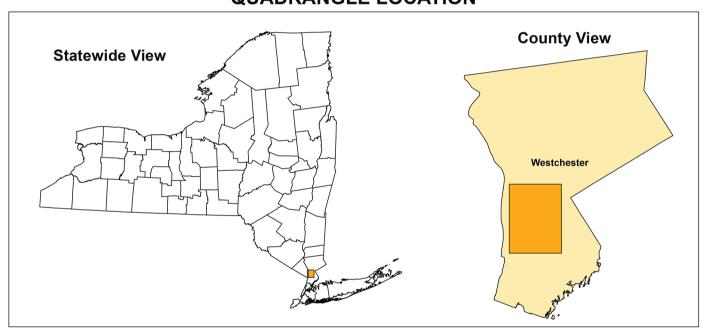
DESCRIPTION OF MAP UNITS

Holocene		
	Af	Artifical Fill (Af) This unit is generally composed consists of coarse/-to-fine, materials such as large cement mounds and/or crushed rock, which have been transported anthropogenically transported and used for construction purposes.
	На	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.
	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 steep hillslopes and cliffs as part of a slump or hillslope failure.
	Hw	Wetland Deposit (Hw) Peat, muck, marl, silt, clay or sand deposited in association with wetland environments. Various sediments can be present at transitional boundaries from one facies to another.
Pleistocene		
	Plsc	Silt and Clay (Plsc) Stratified, fine-grained sediment consisting of fine sand, silt and clay size particles. Inferred to be deposited in mid-shore to deepwater settings of glacial lakes. May include marl, rythmites, and varves.
	Ps	Stratified Sand (Ps) Well-sorted and stratified sand, deposited by fluvial, lacustrine or eolian processes. Inferred as deposits associated with distal glacial environments.
	Psg	Stratified sand and gravel (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.
	Pics	Cobbles to Sand (Pics) Stratified, ice contact deposits, variable coarse-grained sediment consisting of boulders to sand size particles. Inferred to be deposited along an ice margin. May include, interbedded coarse lenses of gravel and clast-supported diamicton (flow till).
	Pd	Diamicton (Pd) An admixture of unsorted sediment ranging from clay to boulders. Generally matrix-supported, massive and clast-rich.

Pre-Pleistocene

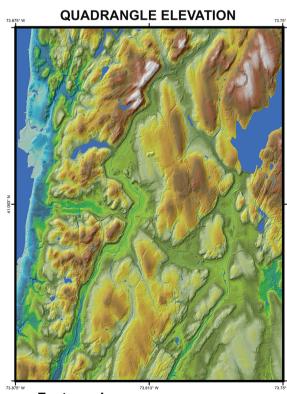
Non-glacially derived, hard rock, pre-pleistocene in age. May be covered up to a meter in diamicton, sand and gravel, or sand and clay in areas marked as Br.

QUADRANGLE LOCATION



ADJOINING QUADRANGLES

SYMBOLS NYSTA Boring Location NYSDEC Water Well Location



1:75,000 scale; 2x vertical exaggeration Shaded relief generated from 2009 Putnam East of Hudson 2m and NYS 10m lidar data sets.