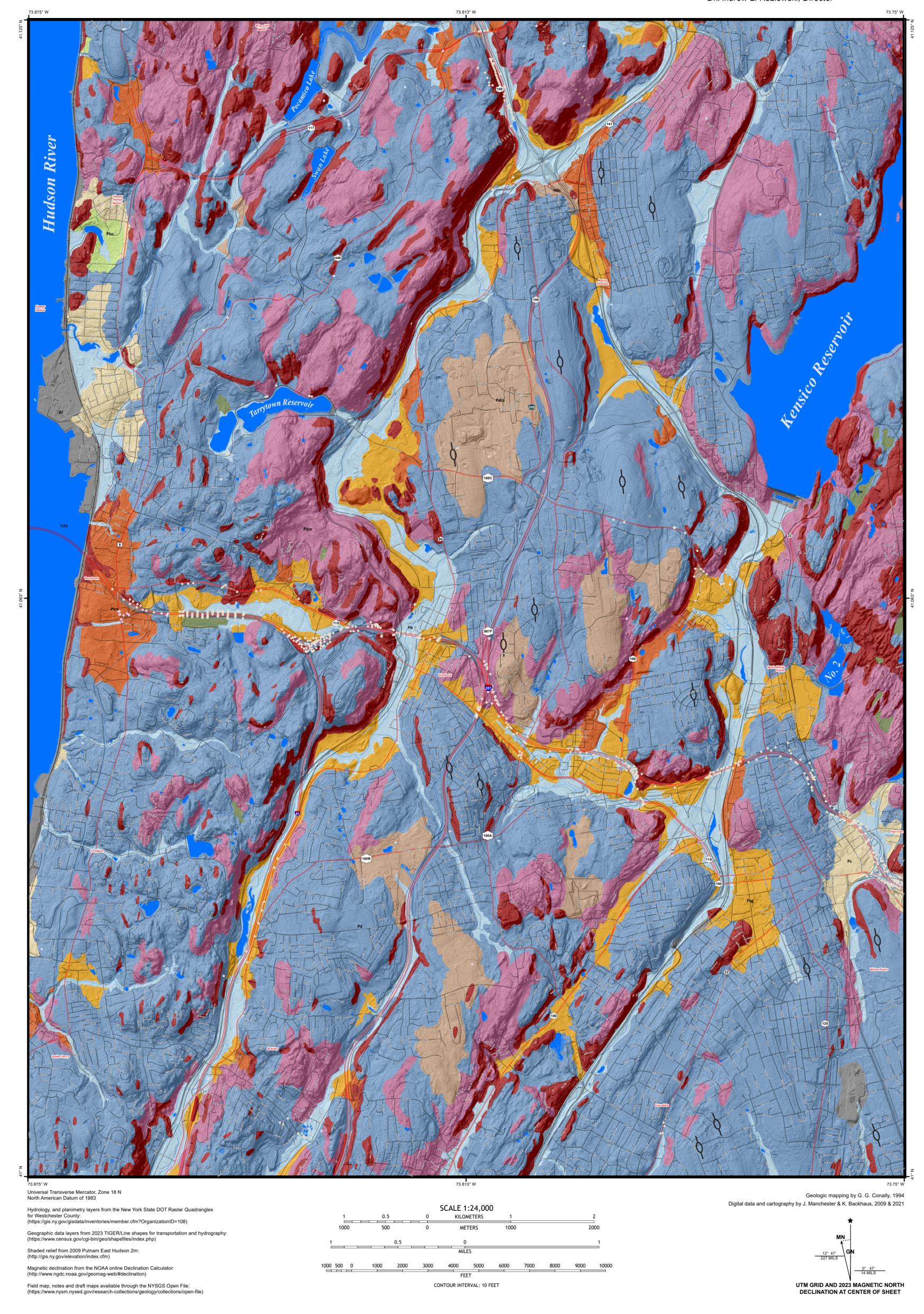
New York State Museum & Science Service

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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

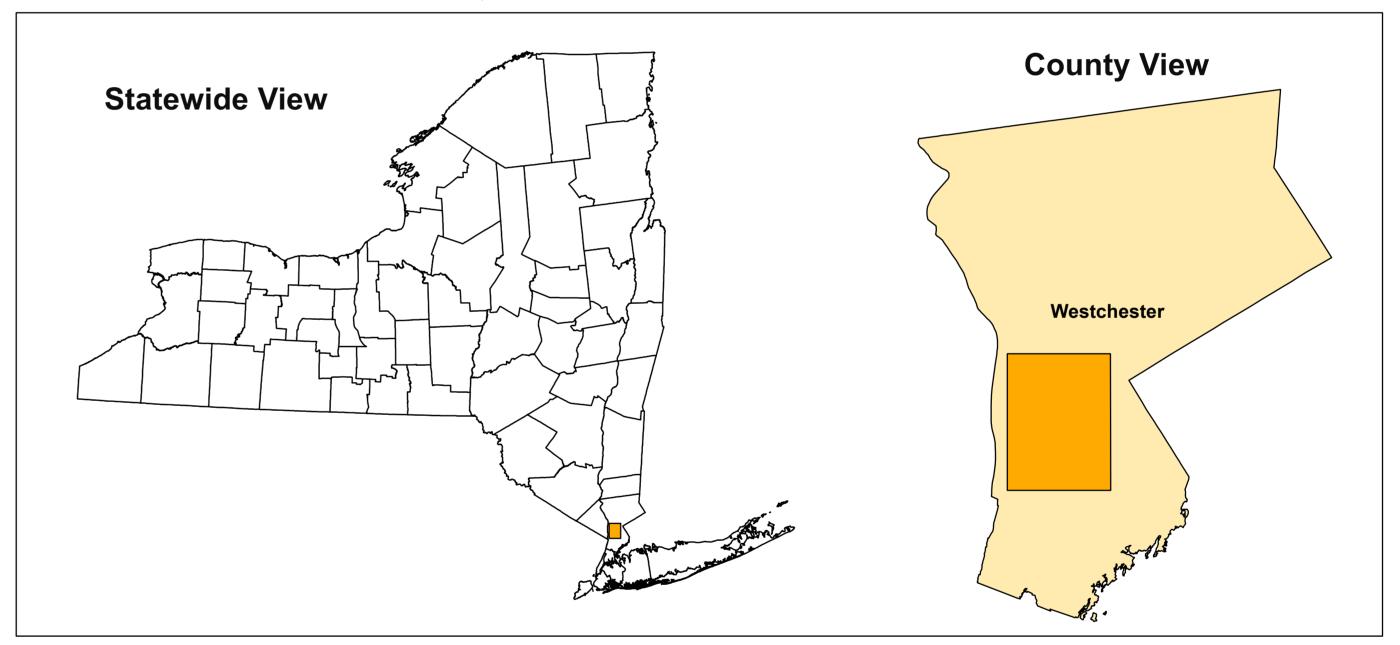
Supported in part by the U.S Geological Survey Cooperative Agreement Number 1434-93-A-1164 National Cooperative Geologic Mapping Program (STATEMAP)

DESCRIPTION OF MAP UNITS

Holocen	e
Af	Artifical fill (Af) This unit is generally comprised of coarse-to-fine materials, such as large cement mounds and/or crushed rock, which have been 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.
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.
Hdc	Diamict colluvium (Hdc) Unsorted and unstratified deposit of gravel, sand, silt, and clay, with boulders/cobbles possible. Described as a mass-wasting deposit at the base of steep hillslopes and cliffs that was formed as part of a slump or hillslope failure.
Pleistoc	ene
Plsc	Silt and clay (Plsc) Stratified, fine-grained sediment consisting of fine sand, silt, and clay-size particles. Inferred to have been deposited in mid-shore to deep water settings of glacial lakes. May include marl, rhythmites, and varves.
Ps	Stratified sand (Ps) Well-sorted and -stratified sand deposited by fluvial, lacustrine, or eolian processes. Inferred to be 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 have been deposited along an ice margin. May include interbedded coarse lenses of gravel and clast-supported diamicton (flow till).
Pd	Matrix-supported diamicton (Pd) An admixture of unsorted sediment ranging from clay to boulders. Generally matrix-supported, massive and clast-rich.
Pdcs	Clast-supported diamicton (Pdcs) An admixture of unsorted sediment ranging from clay to boulders. Generally clast-supported, massive and clast-rich.
Pdor	Thin diamicton over rock (Pdor) Predominantly matrix- or clast-supported diamicton that is less than 2 to 3 meters thick overlying bedrock. In some areas there may be bedrock outcrops but they are very small and localized and are otherwise surrounded by diamicton.

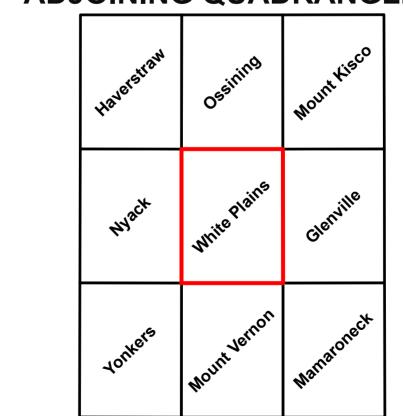
QUADRANGLE LOCATION

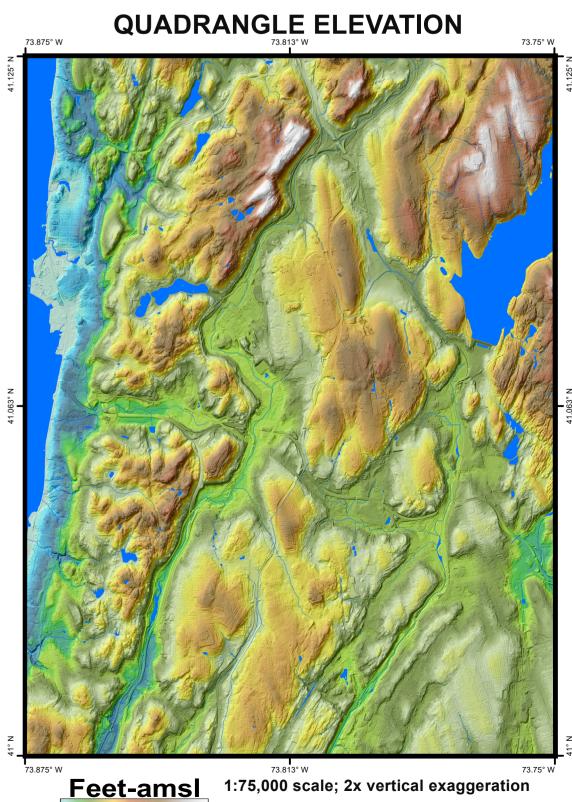
Non-glacially derived hard rock, pre-Pleistocene in age. May be covered by up to a meter with diamicton, sand and gravel, or sand and clay in areas marked as Br.



ADJOINING QUADRANGLES

SYMBOLS Street NYSDOT Boring Location Stream NYSTA Boring Location Contour Railroad NYSDEC Oil & Gas Well Location NYSDEC Water Well Location Drumlin





NOTICE

This geologic map was funded in part by the USGS National Cooperative Geologic Mapping Program STATEMAP award number 1434-93-A-1164 in the year 1994.

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Shaded relief generated from 2019 FEMA

1-meter lidar data set.