SURFICIAL GEOLOGY OF THE HOPEWELL JUNCTION 7.5-MINUTE QUADRANGLE,
DUTCHESS AND PUTNAM COUNTIES, NEW YORK

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DESCRIPTION OF MAP UNITS

Holocene

Af  Artificial Fill (Art)
Surface sediment composed of cobbles and 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 sediments and includes modern channel, over-bank and fan deposits.

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

Pleistocene

Pysc  Silt and Clay (Pyc)
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, silts, and clays.

Pics  Cobbles to Sand (Pics)
Stratified ice-contacted 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 clay deposit associated with ice-crevasse formations.

Psqg  Stratified sand and gravel (Psq)
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  Diamicton (Pd)
An admixture of unsorted sediment ranging from clay to boulders. Generally matrix 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 diamicton, sand and gravel, or sand and clay in areas marked as Br.

QUADRANGLE LOCATION

SYMBOLS

- Streets
- Highways
- Railroads
- Contours
- Ice Margins
- Wells
- NYDEC Water Well Location
- Water Bodies

ADJOINING QUADRANGLES

QUADRANGLE ELEVATION

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