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U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the

Manhasset-Lakeville Water District
New York State Department of Environmental Conservation
Sands Point Water Department
Suffolk County Water Authority
Town of Shelter Island

Nassau County Department of Public Works
Port Washington Water District
Suffolk County Department of Health Services
Town of North Hempstead
Water Authority of Great Neck North

Scientific Investigations Map 3398
Sheet 1 of 4
Pamphlet accompanies map

NEW YORK
CONNECTICUT
NEW JERSEY
Long Island
Inset A
ATLANTIC OCEAN
20 0 20 MILES
20 0 20 KILOMETERS
USGS 404757073440401 N 9099
USGS 404553073351201 N 1616
USGS 404958073085001 S 1812
USGS 405149072532201 S 5517
USGS 405743072425701 S 4271
USGS 405756072173502 S 8833
Altitude, in feet relative to NGVD 29
Date
Oct 2015
Nov 2015
Dec 2015
Jan 2016
Feb 2016
Mar 2016
Apr 2016
May 2016
Jun 2016
Jul 2016
Aug 2016
Sep 2016
NO DATA
EXPLANATION
Daily mean altitude (NGVD 29)
Water level shown on map (NGVD 29)
BRONX COUNTY
NEW YORK COUNTY
QUEENS COUNTY
KINGS COUNTY
RICHMOND COUNTY
NASSAU COUNTY
SUFFOLK COUNTY
No data
LONG ISLAND SOUND
BLOCK ISLAND SOUND
ATLANTIC OCEAN
UPPER NEW YORK BAY
LOWER NEW YORK BAY
JAMAICA BAY
GREAT SOUTH BAY
GREAT PECONIC BAY
LITTLE PECONIC BAY
GARDINERS BAY
SMITHTOWN BAY
Plum Island
Gardiners Island
Fishers Island
No data SUFFOLK COUNTY
1 0 1 2 3 4 5 MILES
1 0 1 2 3 4 5 KILOMETERS
2 0 2 4 6 8 10 MILES
2 0 2 4 6 8 10 KILOMETERS
SCALE 1:125 000
-74°
-73°30'
-73°
-72°30'
-72°
40°50'
40°40'
40°30'
41°
41°10'

EXPLANATION

Land surface topography—Shows land surface altitude in feet, NAVD 88

400 feet
300
200
100
0 feet

Water-table contour—Shows altitude of water table, April–May 2016. Solid where approximately known; dashed where inferred. Contour interval is variable. Datum is NGVD 29

Water-table groundwater divide—Shows approximate location of the regional groundwater divide for the water table. Conditions will vary locally due to variations in geology

● S 58922
● 2.55
●

Monitoring well—Green circle indicates observation well screened in the upper glacial aquifer; green circle with thick border indicates supply well screened in the upper glacial aquifer; red circle indicates observation well screened in the Magothy aquifer. Upper number is well number assigned by the New York State Department of Environmental Conservation; lower number is water-table altitude in feet, NGVD 29

▲ 01305000
19.25
▲

Streamgage or Lake level—Black triangle indicates streamgage; green triangle with black border indicates lake level gage. Upper number is downstream order number assigned by the U.S. Geological Survey; lower number is altitude of water in the stream or lake in feet, NGVD 29

Base modified from U.S. Geological Survey digital data 1:100,000 series
Coordinate reference system: NAD_1983_StatePlane_New_York_Long_Island_FIPS_3104_Feet
WKID: 2263 Authority: EPSG. Horizontal datum is North American Datum of 1983

Hydrology by Michael Como and Ronald Busciolano

Water-Table and Potentiometric-Surface Altitudes in the Upper Glacial, Magothy, and Lloyd Aquifers of Long Island, New York, April–May 2016

By
Michael D. Como, Jason S. Finkelstein, Simonette L. Rivera, Jack Monti, Jr., and Ronald Busciolano
2018

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If this map is printed on an electronic plotter directly from digital files, dimensional calibration may vary between X and Y directions on the same plotter, and paper may change size due to atmospheric conditions; therefore, scale and proportions may not be true on plots of this map.

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