Chloride content of water from wells screened in the Lloyd sand member of the Raritan formation on Long Island, New York

By

C. M. Roberts

Prepared in cooperation with the

New York Water Power and Control Commission
Nassau County Department of Public Works
Suffolk County Board of Supervisors
Suffolk County Water Authority

Mineola, New York
December 1950
$0.95
Since 1932 the United States Geological Survey, in cooperation with the New York Water Power and Control Commission, the Nassau County Department of Public Works, the Suffolk County Board of Supervisors, and later also with the Suffolk County Water Authority, has been making general and specific studies dealing with the occurrence, movement, quantity, quality, and temperature of ground water found in the several water-bearing formations on Long Island. In the first years most of the emphasis was placed on studying the shallow water-table beds, although geologic and hydrologic information was obtained for the Lloyd sand member of the Raritan formation, the deepest water-bearing beds on Long Island, as well as for other shallower artesian formations.

However in 1945 it seemed necessary to begin a detailed and well-rounded program for a more complete study of the Lloyd sand member. Such a plan was endorsed and supported by all cooperating and interested parties. The following principal objectives were outlines:

(1) Compilation of long-term records of the fluctuation and trend of water levels at selected wells on at least a monthly basis, and collection of water-level data about once a year at nearly all measurable wells that tap the Lloyd sand member.

(2) Determination of the hydraulic characteristics of the Lloyd sand member (the coefficients of permeability and storage) at as many locations as possible.
(3) Assembly of a complete set of data on the chloride content and other chemical characteristics of water pumped from the Lloyd sand member.

(4) Collection of data on the amounts of water withdrawn from the Lloyd sand member.

(5) Accumulation of geologic data for use in delineating the position, extent, and thickness of the Lloyd sand member, and the overlying confining clay member of the Raritan formation.

The present tabulation on 16 sheets indicates the progress made in the collection of data on the chloride content of ground water pumped from the Lloyd sand member on Long Island. It is a supplement to the typewritten report released on March 27, 1945, under the title "Ground-water chloride data for Long Island, N. Y." In the main, the present tabulation of chloride data includes most of the information obtained from 1944 through the winter of 1948-49. It also contains information for a few old wells that were not listed previously, and for wells recently drilled and screened in the Lloyd sand member.

The opportunity to collect water samples at wells tapping the Lloyd sand member was made possible through the kindness and courtesy of many water districts and private companies; municipal, county, State, and Federal agencies; and numerous well owners. All these permitted members of the U. S. Geological Survey access to their wells, started the operation of pumping stations, quite often to their own inconvenience, and frequently gave physical assistance. Many furnished well data and earlier records of chemical analyses.
Determinations of the chloride content of water at wells listed in this release were made by the Mount Prospect Laboratory of the City of New York Department of Water Supply, Gas and Electricity, the New York State Department of Health, the Nassau County Department of Health, and the U. S. Geological Survey.

The cooperation of all those who participated in one way or another, directly or indirectly, in making possible the assemblage of the data is gratefully acknowledged.

Detailed geologic information for most of the wells covered by this report is available in bulletins published by the New York State Water Power and Control Commission, Bulletins GW-3, GW-5, GW-6, GW-8, GW-9, GW-10, GW-11, GW-13, and GW-17.

The data included in this release may be consulted at the following places:

U. S. Geological Survey
230 Old Country Road
Mineola, N. Y.

U. S. Geological Survey
Ground Water Branch
2209 General Services Bldg.
Washington, D. C.

N. Y. State Water Power & Control Comm.
147-09 Archer Avenue
Jamaica, N. Y.

Nassau County Dept. of Public Works
County Court House
Mineola, N. Y.

Suffolk County Board of Supervisors, and
Suffolk County Water Authority
Riverhead, N. Y.

Suffolk County Dept. of Highways
Port Jefferson, N. Y.

N. Y. City Dept. of Water Supply,
Gas & Electricity
Municipal Bldg.
New York, N. Y.
Chloride content of water from wells screened in the Lloyd sand member of the Parian Formation on Long Island, New York

(Results in parts per million)

K-161 Up-to-date Silk and Yarn Dyeing Co., Strickland and Mill Avenues, Flatlands.<br>Depth: 194 feet. Industrial well.<br>

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<th>Chloride content</th>
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K-521 Flatbush Water Corp., Utica Ave. and Beverly Road.<br>Depth: 418 feet. Abandoned Water Supply Well.<br>

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**K-619**

Kings County Ice and Fuel Company, 601 Van Sinderen Avenue, East New York.

Depth: 132 feet. Well used during summer only for production of ice.

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[Stamp]
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<tr>
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<table>
<thead>
<tr>
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<th>Citizens Water Supply Company. Well 1. Wildwood Road and Cherry Lane, Kings Point.</th>
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<tbody>
<tr>
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<tr>
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<table>
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<table>
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<tbody>
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<td>700 ppm.</td>
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**N-36**

Village of Sands Point, Round Hill Lane, Sands Point.
深度: 209 英尺。氯化物的测定结果是从从井 N-36 和 N-37 中取出的复合样本中得出的。一个不穿透洛伊德砂的浅井。公共水供应井。

7/7/48 6.8

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**N-40**

City of Long Beach. Well 2. Park Place and Riverside Boulevard, Long Beach.
深度: 1300 英尺。井在地面流。公共水供应井。

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**N-41**

City of Long Beach. Well 3. Park Place and Riverside Boulevard, Long Beach.
深度: 1186 英尺。井在地面流。公共水供应井。

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**N-42**

City of Long Beach. Well 4. Park Place and Riverside Boulevard, Long Beach.
深度: 1184 英尺。井在地面流。公共水供应井。

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### N-43 City of Long Beach, Well 5. Magnolia Boulevard and Water Street, Long Beach.
**Depth:** 1064 feet. Well flows at land surface. Public Water Supply well.

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<tr>
<td>5/21/44</td>
<td>2.0</td>
</tr>
<tr>
<td>11/28/44</td>
<td>7.0</td>
</tr>
<tr>
<td>2/28/45</td>
<td>10</td>
</tr>
<tr>
<td>9/6/46</td>
<td>4.0</td>
</tr>
<tr>
<td>8/14/46</td>
<td>7.0</td>
</tr>
<tr>
<td>1/12/49</td>
<td>6.6</td>
</tr>
</tbody>
</table>

### N-44 City of Long Beach, Well 6. Laurelton Boulevard and Pine Street, Long Beach.
**Depth:** 1289 feet. Well flows at land surface. Public Water Supply well.

<table>
<thead>
<tr>
<th>Date</th>
<th>Flow (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/30/44</td>
<td>5.0</td>
</tr>
<tr>
<td>9/1/44</td>
<td>8.0</td>
</tr>
<tr>
<td>12/28/44</td>
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</tr>
<tr>
<td>2/28/46</td>
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<tr>
<td>5/31/46</td>
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<tr>
<td>9/6/46</td>
<td>7.0</td>
</tr>
<tr>
<td>1/12/49</td>
<td>6.4</td>
</tr>
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</table>

### N-45 City of Long Beach, Well 7. West Park and Indiana Avenues, Long Beach.
**Depth:** 1122 feet. Water flows at land surface. Public Water Supply well.

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<thead>
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<tr>
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<tr>
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<tr>
<td>12/18/46</td>
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<tr>
<td>1/7/47</td>
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<tr>
<td>5/27/47</td>
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<tr>
<td>12/16/47</td>
<td>9.5</td>
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</tbody>
</table>

### N-46 Channel Management Corporation, Jade Boulevard, Point Lookout.
**Depth:** 1260 feet. Well flows at land surface. Public Water Supply well.

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>12/15/47</td>
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<tr>
<td>4/19/48</td>
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<tr>
<td>Well</td>
<td>Location</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
</tr>
<tr>
<td>N-67</td>
<td>Village of Freeport, Sunrise Highway, Freeport</td>
</tr>
<tr>
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<tr>
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</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>N-172</td>
<td>Arthur B. Davis, Clets Road, Mill Neck.</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td>Number</td>
<td>Location</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>K-176</td>
<td>Thurston Smith, Centre Island Road, Centre Island</td>
</tr>
<tr>
<td>K-202</td>
<td>Oyster Bay Water District, West Shore Road, Oyster Bay</td>
</tr>
<tr>
<td></td>
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<tr>
<td>K-204</td>
<td>Village of Centre Island, Centre Island Road, Centre Island</td>
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<tr>
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<tr>
<td></td>
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</tr>
<tr>
<td>K-501</td>
<td>Stein Estate, Centre Island</td>
</tr>
<tr>
<td>K-502</td>
<td>G. N. Fletcher, Centre Island</td>
</tr>
<tr>
<td>K-506</td>
<td>G. W. Wetmore, Centre Island</td>
</tr>
<tr>
<td>K-507</td>
<td>Dr. C. L. Jones, Bayville</td>
</tr>
</tbody>
</table>
N-511 Irving Cove, Will Neck.  

4/21/48  3.8

N-599 Flamboro Golf Club, Stonington Road, Flamboro.  
Depth: 354 feet. Used for irrigation.

7/4/48  3.2

N-656 Metropolitan Sand and Gravel Company, West Shore Road, Far Beach.  
Depth: 400 feet. Well flows at land surface. Industrial well.

7/16/46  40

N-657 Town of North Hempstead. Far Beach, West Shore Road.  

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>11/17/38</td>
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<tr>
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<td>890</td>
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<tr>
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<td>210</td>
</tr>
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<tr>
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<td>1010</td>
</tr>
<tr>
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</tr>
<tr>
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<td>1040</td>
</tr>
<tr>
<td>2/9/40</td>
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</tr>
<tr>
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</tr>
<tr>
<td>4/12/40</td>
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<tr>
<td>12/31/40</td>
<td>1220</td>
</tr>
</tbody>
</table>

N-660 Chemco Inc. New Street and The Place, Glen Cove. Industrial well.  
Depth: About 404 feet.

10/10/45  6.0

2/3/49    4.0
**N-661**  Chance Inc., Hew Street and The Place, Glen Cove. Industrial well.  
Depth: 396 feet  

<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
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</thead>
<tbody>
<tr>
<td>10/10/45</td>
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</table>

**N-675**  Fort Washington Sewer District, Sunset Park, Port Washington  
Depth: 266 feet. Industrial well.  

<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16/46</td>
<td>10</td>
</tr>
<tr>
<td>7/1/48</td>
<td>3.8</td>
</tr>
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</table>


<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/ 9/43</td>
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<tr>
<td>10/19/44</td>
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</tr>
<tr>
<td>10/31/44</td>
<td>7.0</td>
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</tbody>
</table>

**N-625**  Fort Washington Water District. Deep Well #2. Between Sandy Hollow Road and Bayview Avenue, Port Washington.  

<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/ 9/43</td>
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</tr>
<tr>
<td>10/23/43</td>
<td>6.0</td>
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<tr>
<td>7/18/44</td>
<td>8.0</td>
</tr>
<tr>
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</tr>
<tr>
<td>11/28/44</td>
<td>28</td>
</tr>
<tr>
<td>1/ 2/45</td>
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</tbody>
</table>

**N-626**  Fort Washington Water District. Deep well #3. Between Sandy Hollow Road and Bayview Avenue, Port Washington.  

<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/ 9/43</td>
<td>69</td>
</tr>
<tr>
<td>4/20/43</td>
<td>18</td>
</tr>
<tr>
<td>7/18/44</td>
<td>27</td>
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<td>10/19/44</td>
<td>105</td>
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H-826 (continued)

<table>
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<th>Date</th>
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<tbody>
<tr>
<td>10/30/44</td>
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<td>107</td>
</tr>
<tr>
<td>11/13/44</td>
<td>109</td>
<td>1/2/45</td>
<td>93</td>
</tr>
</tbody>
</table>


7/14/46 15 ft. 1/17/49 4.0 ft.


6/21/46 9.0 ft.

H-1228 Manhasset-Lakeville Water District. Shelter Rock Road, Manhasset.
Depth: 742 feet. Public Water Supply well.

7/1/48 3.4 ft.

H-1616 Manhasset-Lakeville Water District. West side of New Hyde Park Road, Manhasset.

10/27/42 5.0 ft. 1/17/49 3.6 ft.


1/11/49 4.8 ft.
<table>
<thead>
<tr>
<th>Well No.</th>
<th>Location</th>
<th>Status</th>
<th>Depth</th>
<th>Flow Rate (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-1802</td>
<td>Manhasset-Lakeville Water District, Lakeville Road and Union Turnpike, Lake Success.</td>
<td>Public Water Supply well</td>
<td>691 ft.</td>
<td>4.0 gpm</td>
</tr>
<tr>
<td>N-1877</td>
<td>Roslyn Water District, west Shore road and Mott Avenue Roslyn</td>
<td>Well flows at land surface. Public Water Supply well</td>
<td>556 ft.</td>
<td>4.6 gpm</td>
</tr>
<tr>
<td>N-1917</td>
<td>Wah Chang Trading Corp., 83 Herbill Road, Glen Cove.</td>
<td>Industrial well</td>
<td>308 ft.</td>
<td>4.0 gpm</td>
</tr>
<tr>
<td>N-1926</td>
<td>U. S. Merchant Marine Academy, Kings Point.</td>
<td>Industrial well</td>
<td>278 ft.</td>
<td>6.4 gpm</td>
</tr>
<tr>
<td>N-1927</td>
<td>City of Long Beach. Well E. Park Avenue and Curley Street, Long Beach.</td>
<td>Well flows at land surface. Public Water Supply well</td>
<td>1230 ft.</td>
<td>5.0 gpm</td>
</tr>
<tr>
<td>N-1956</td>
<td>Jamaica Water Supply Company, East 4th Street and Hillsdale Avenue, New Hyde Park.</td>
<td>Public Water Supply well</td>
<td>727 ft.</td>
<td>4.2 gpm</td>
</tr>
</tbody>
</table>
N-2002  Long Island Lighting Company, Shore Road, Glenwood Landing.  
Depth: 407 feet. Industrial well.  
9/4/46 10 gal.  4/15/46 4.8 gal.

N-2071  Appleby Estate, Herb Hill Road, Glen Cove.  
Depth: 253 feet. Used by U.S.O.S. as observation well. Well flows.  
4/16/46 3.4 gal.

N-2116  Junius Morgan. Well No. 1. Lattingtown Road and Dosoris Lane, Dosoris Island.  
Depth: 220 feet. Used for domestic purposes.  
7/25/46 10 gal.  8/8/46 10 gal.

N-2117  Junius Morgan. Well No. 2. Lattingtown Road and Dosoris Lane, Dosoris Island. Used for domestic purposes.  
Depth: 226 feet.  
8/8/46 10 gal.

N-2697  City of Long Beach, Westbury Dr. and Lafayette Blvd., Long Beach.  
Depth: 1235 feet. Public Water Supply well.  
1/12/49 4.2 cfs.

Q-27  Durkee Famous Foods, Incorporated, 94th Street and 45th Avenue, Corona.  
Depth: 256 feet. Industrial well.  
10/9/44 11 gal.  4/16/48 9.6 gal.
6/26/47 11 gal.

4/15/46 5.2 ft.

Q-34. Knickerbocker Ice Company, Wall 2, Collins Place and 35th Avenue, Flushing. Depth: 345 feet. Used for ice production but has not been operated for several years. Salinity apparently affected by variations in public supply pumping in northern Queens rather than variations in pumping in well Q-34.

6/9/46 70

Q-64. Knickerbocker Ice Company, 93rd Street and 45th Avenue. Depth: About 560 feet. Industrial well.

<table>
<thead>
<tr>
<th>Date</th>
<th>Dk</th>
<th>Date</th>
<th>Dk</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>6/25/37</td>
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</tr>
<tr>
<td>9/30/37</td>
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</table>


<table>
<thead>
<tr>
<th>Date</th>
<th>Dk</th>
<th>Date</th>
<th>Dk</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/7/32</td>
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</tr>
<tr>
<td>7/18/39</td>
<td>14</td>
<td>4/19/48</td>
<td>14</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
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<th>Dk</th>
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</thead>
<tbody>
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<tr>
<td>3/36</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>Dk</th>
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<tbody>
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<td>Well Number</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Q-286</td>
<td>Murray Ice Co., Bench Channel Drive and Bench 96th Street</td>
</tr>
<tr>
<td>Q-290</td>
<td>Rockaway Operating Company, Inc., Rockaway Point</td>
</tr>
<tr>
<td>Q-351</td>
<td>Jamaica Water Supply Company, Well 6 C, 108th Avenue and 167th Street</td>
</tr>
<tr>
<td>Q-357</td>
<td>Jamaica Water Supply Company, Well 19 A, 164 Street and 84th Avenue</td>
</tr>
<tr>
<td>Q-387</td>
<td>I. E. Kleinert Rubber Company, 20-09 127th Street, College Point</td>
</tr>
<tr>
<td>8-8</td>
<td>New York Water Service Corporation, Hill Street, Huntington</td>
</tr>
<tr>
<td>8-49</td>
<td>U. S. Veteran's Hospital, Well 1, Middleville Road, Northport</td>
</tr>
</tbody>
</table>
Depth: 728 feet. Used for domestic, irrigation and cooling.  
3/27/48  5.0

S-239  Catholic Seminary, West Neck Avenue, West Neck, Huntington.  
Depth: About 565 feet. Used for domestic and irrigation.  
4/15/48  4.4

Depth: About 377 feet. Used for domestic purposes.  
4/15/48  3.3