

(200)
 T67W
 no. 805

| System | Series | Formation | Approximate thickness (feet) | Physical character | Hydrologic Comments |
|----------------|------------------------------|--|------------------------------|--|---|
| Quaternary | Recent and Upper Pleistocene | undifferentiated | 0-300 | Fine to coarse stratified sand and gravel, glacial tills consisting of unstratified mixtures of boulders and clay, terminal moraines and outwash deposits. Includes Recent beach sands and some clays and silts. | Sand and gravel portions are highly permeable. Contain unconfined aquifer, and deposits influence the natural, shallow ground-water circulation. |
| | Pleistocene | Gardiners clay | 0-140 | Gray or green clay and silt, and some lenses of sand and gravel. | Normally lies at least 50 feet below sea level. Relatively impermeable and forms a confining layer above the Jameco gravel. |
| | | Jameco gravel | 0-150 | Fine to coarse, dark gray and brown sand and gravel. | Generally coarse grained and highly permeable. Contains water under artesian pressure. |
| Cretaceous | Upper Cretaceous | Magothy (?) | 0-1000 | Fine to medium gray sand inter-fingered with lenses of coarse sand, sandy clay, and solid clay. | Widely used as an aquifer through most of Long Island. Water generally of excellent quality except where contaminated by salty water. |
| | | Raritan (clay member) | 50-300 | Laminated silty and solid clays with subordinate sand layers. Clays are commonly red, yellow, and white, but black carbonaceous clays are locally present. | Relatively impermeable. Forms a confining zone between overlying Magothy (?) and underlying Lloyd sand. Retards but does not prevent movement of water. |
| | | Raritan (Lloyd sand member) | 20-350 | Fine to coarse gray and white sand and gravel. Contains thin layers of clay. | Generally relatively permeable. Yields large amounts of good-quality artesian water in most parts of the Island. |
| Pre-Cretaceous | | igneous and metamorphic, or "basement rocks" | | | |

PLEASE REPLACE IN POCKET
 IN BACK OF BOUND VOLUME

Table 4. GENERALIZED DESCRIPTION OF FORMATIONS AND THEIR HYDROLOGIC CHARACTERISTICS IN LONG ISLAND

