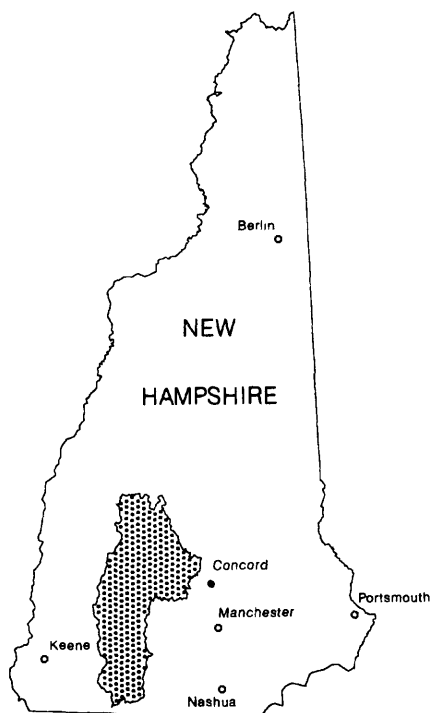


# Geohydrology and Water Quality of Stratified-Drift Aquifers in the Contoocook River Basin, South-Central New Hampshire

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U.S. Geological Survey

Water-Resources Investigations Report 92-4154



Prepared in cooperation with the  
NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES,  
WATER RESOURCES DIVISION



**GEOHYDROLOGY AND WATER QUALITY OF STRATIFIED-DRIFT AQUIFERS IN  
THE CONTOOCCOOK RIVER BASIN, SOUTH-CENTRAL NEW HAMPSHIRE**

*By Philip T. Harte and William Johnson*

*With a section on Geohydrologic Setting by Richard Bridge Moore*

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Bow, New Hampshire  
1995



**U.S. DEPARTMENT OF THE INTERIOR**

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# CONTENTS

|   | Page |
|---|------|
| Abstract .....  | 1    |
| Introduction .....  | 2    |
| Purpose and scope .....   | 2    |
| Approach and methods .....  | 2    |
| Description of study area .....   | 8    |
| Previous investigations .....   | 8    |
| Acknowledgments .....   | 10   |
| Geohydrologic setting, by Richard Bridge Moore <sup>1</sup> .....                 | 10   |
| Stratified drift .....  | 10   |
| Lakes dammed by glacial ice in the Contoocook valley during<br>deglaciation ..... | 10   |
| Depositional environment .....  | 14   |
| Till .....  | 14   |
| Bedrock .....   | 15   |
| Availability and use of water .....   | 15   |
| Surface water .....   | 15   |
| Ground water .....  | 16   |
| Geohydrology of stratified-drift aquifers .....                                   | 16   |
| Areal extent .....  | 18   |
| Saturated thickness .....   | 19   |
| Ground-water recharge and discharge .....   | 19   |
| Ground-water flow and water-level fluctuations .....                              | 20   |
| Hydraulic characteristics .....   | 25   |
| Aquifer descriptions, by subbasin .....   | 31   |
| Main Stem South subbasin .....  | 37   |
| Nubanusit subbasin .....  | 38   |
| North Branch subbasin .....   | 38   |
| Beards Brook subbasin .....   | 39   |
| Main Stem South-Central subbasin .....  | 39   |
| Main Stem North-Central subbasin .....  | 41   |
| Warner subbasin .....   | 42   |
| Blackwater subbasin .....   | 43   |
| Main Stem North subbasin .....  | 43   |
| Estimation of aquifer yield for selected aquifers .....                           | 45   |
| Greenfield-Otter Brook aquifer .....  | 47   |
| Hillsborough-Contoocook River aquifer .....                                       | 50   |
| Henniker-Contoocook River aquifer .....   | 50   |
| Andover-Blackwater River aquifer .....  | 53   |
| Water quality .....   | 53   |
| Surface water .....   | 56   |
| Ground water .....  | 56   |
| Summary and conclusions .....   | 61   |
| Selected references .....   | 63   |
| Glossary .....  | 68   |

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<sup>1</sup> U.S. Geological Survey.

## Contents (continued)

|   | Page |
|---|------|
| <b>Appendixes:</b>  |      |
| A. Description of wells and borings .....   | A-1  |
| B. Stratigraphic logs of selected wells and borings.....  | B-1  |
| C. Chemical analyses of ground-water samples from U.S. Geological Survey<br>observation wells in the Contoocook River basin ..... | C-1  |
| D. Chemical analyses of ground-water samples from municipal wells in the<br>Contoocook River basin .....                          | D-1  |
| E1-17. Geohydrologic sections interpreted from seismic-refraction, well, and<br>boring data .....                                 | E-1  |

## ILLUSTRATIONS

[Plates are in report envelope]

- Plates 1-2. Maps showing altitude of water table, data-collection locations, and surficial geology for stratified-drift aquifers in the Contoocook River basin, south-central New Hampshire:
1. Northern subbasins.
  2. Southern subbasins.
- 3-4. Maps showing saturated thickness and transmissivity of stratified drift in the Contoocook River basin, south-central New Hampshire,:
3. Northern subbasins.
  4. Southern subbasins.

|        |   | Page |
|--------|---|------|
| Figure | 1. Index map showing location of the Contoocook River basin and other stratified-drift aquifer studies in New Hampshire .....                             | 3    |
|        | 2. Index map showing location of subbasins, counties, towns, and areas in the Contoocook River basin shown on plates 1-4 .....                            | 4    |
|        | 3-6. Maps showing:  |      |
|        | 3. Location of stratified-drift aquifers, subbasins, streams, streamflow-gaging stations, and climatological stations in the Contoocook River basin ..... | 9    |
|        | 4. History of successive lake stages and outlets of glacial Lake Contoocook .....   | 12   |
|        | 5. Outlets for stage 5 of glacial Lake Contoocook .....   | 13   |
|        | 6. Location of primary municipal surface- and ground-water supplies .....   | 17   |
|        | 7. Histogram showing distribution of well yields from stratified-drift aquifers in the Contoocook River basin .....                                       | 19   |
|        | 8. Block diagram showing generalized hydrologic cycle and ground-water-flow patterns in a typical stratified-drift, river-valley aquifer .....            | 25   |
|        | 9. Hydrographs of ground-water levels at wells WCW-1 in Warner, NLW-1 in New London, and CVW-4 in Concord .....   | 26   |
|        | 10. Conceptual diagram of a ground-water system in a subbasin .....   | 33   |
|        | 11. Graph showing base-flow recessions at selected streamflow-gaging stations in the Contoocook River basin .....   | 34   |

## ILLUSTRATIONS (continued)

|   | Page |
|---|------|
| 12. Graph showing streamflow-duration curves for gaging stations in the Contoocook River basin .....  | 35   |
| 13. Map showing location of analytical models of aquifer yield .....  | 46   |
| 14. Sketch showing the effects of a recharge boundary on the cone of depression of a pumped well .....  | 48   |
| 15. Sketch showing the effects of a barrier boundary on the cone of depression of a pumped well .....   | 48   |
| 16-19. Maps showing location of analytical model used to predict yield for the:   |      |
| 16. Greenfield-Otter Brook aquifer .....  | 49   |
| 17. Hillsborough-Contoocook River aquifer .....   | 51   |
| 18. Henniker-Contoocook River aquifer .....   | 52   |
| 19. Andover-Blackwater River aquifer .....  | 54   |
| 20. Map showing location of U.S. Geological Survey water-quality sampling wells, state of New Hampshire water-quality sampling wells, stream water-quality classification, and Resource Conservation and Recovery Act sites ..... | 55   |
| 21. Trilinear diagram showing major-ion chemistry of water samples from U.S. Geological Survey wells .....  | 62   |
| Appendix E1-17. Geohydrologic sections interpreted from seismic-refraction, well, and boring data for:  |      |
| E1. Jaffrey A-A' and B-B', and Rindge A-A' and B-B' .....   | E-2  |
| E2. Sharon A-A', B-B', and C-C' .....   | E-3  |
| E3. Dublin A-A', Harrisville A-A', and Nelson A-A' .....  | E-4  |
| E4. Antrim A-A', and Bennington A-A' and B-B' .....   | E-5  |
| E5. Deering A-A', B-B', C-C', and D-D' .....  | E-6  |
| E6. Greenfield A-A', B-B', C-C', and D-D' .....   | E-7  |
| E7. Greenfield E-E', and Hancock A-A', B-B', and C-C' .....   | E-8  |
| E8. Peterborough A-A', B-B', and C-C' .....   | E-9  |
| E9. Windsor B-B' and C-C' .....   | E-10 |
| E10. Bradford A-A', Hillsborough A-A' and B-B', and Windsor A-A' .....  | E-11 |
| E11. Henniker A-A' and B-B', and Hopkinton A-A' .....   | E-12 |
| E12. Bradford B-B', C-C', D-D', and E-E' .....  | E-13 |
| E13. Newbury A-A', and Sutton A-A', B-B', and C-C' .....  | E-14 |
| E14. Warner A-A' and B-B' .....   | E-15 |
| E15. Andover A-A', and Danbury A-A' and B-B' .....  | E-16 |
| E16. Hill A-A', and Sutton C-C' and D-D' .....  | E-17 |
| E17. Boscawen A-A', Webster D-D' and E-E', and Hopkinton B-B' .....   | E-18 |

## TABLES

|   | Page |
|---|------|
| Table 1. Town codes used in the numbering system for wells and borings .....                                      | 5    |
| 2. Municipal surface-water withdrawals by towns in the Contoocook River basin .....                               | 16   |
| 3. Municipal ground-water withdrawals from stratified-drift aquifers by towns in the Contoocook River basin ..... | 18   |
| 4. Low-flow data from streamflow-measurement sites in the Contoocook River basin .....                            | 21   |

## TABLES (continued)

|  | Page |
|--|------|
| 5. Relation of mean horizontal hydraulic conductivity to median grain size and degree of sorting of aquifer material .....                           | 28   |
| 6. Transmissivity estimates from reported hydraulic tests and reported transmissivities from grain-size analyses in the Contoocook River basin ..... | 29   |
| 7. Number, size, and composition of stratified-drift aquifers in subbasins of the Contoocook River basin .....                                       | 31   |
| 8. Summary of average hydraulic characteristics of subbasins in the Contoocook River basin .....   | 32   |
| 9. Summary of hydraulic characteristics of stratified-drift aquifers in subbasins of the Contoocook River basin .....                                | 36   |
| 10. Recommended-use classifications and water-quality standards for New Hampshire surface water .....  | 57   |
| 11. Summary of results of water-quality analyses .....   | 58   |

## CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATED WATER-QUALITY UNITS

| Multiply  | By      | To Obtain                                   |
|---|---------|---|
| <u>Length</u>   |         |   |
| inch (in.)  | 25.4    | millimeter                                  |
| foot (ft)   | 0.3048  | meter                                       |
| mile (mi)   | 1.609   | kilometer                                   |
| <u>Area</u>   |         |   |
| square mile (mi <sup>2</sup> )  | 2.590   | square kilometer                            |
| <u>Volume</u>   |         |   |
| gallon (gal)  | 3.785   | liter                                       |
| million gallons (Mgal)  | 3,785   | cubic meter                                 |
| cubic foot (ft <sup>3</sup> )   | 0.02832 | cubic meter                                 |
| <u>Flow</u>   |         |   |
| foot per second (ft/s)  | 0.3048  | meter per second                            |
| cubic foot per second (ft <sup>3</sup> /s)                                    | 0.02832 | cubic meter per second                      |
| cubic foot per second per square mile [(ft <sup>3</sup> /s)/mi <sup>2</sup> ] | 0.01093 | cubic meter per second per square kilometer |

## CONVERSION FACTORS, VERTICAL DATUM, AND ABBREVIATED WATER-QUALITY UNITS (Continued)

| <u>Flow--continued</u>                                 |         |                        |
|--|---------|------------------------|
| gallon per minute (gal/min)                            | 0.06309 | liter per second       |
| million gallons per day (Mgal/d)                       | 0.04381 | cubic meter per second |
|  | 1.547   | cubic feet per second  |
| <u>Hydraulic Conductivity</u>                          |         |                        |
| <sup>2</sup> foot per day (ft/d)                       | 0.3048  | meter per day          |
| <u>Transmissivity</u>                                  |         |                        |
| <sup>2</sup> foot squared per day (ft <sup>2</sup> /d) | 0.09290 | meter squared per day  |

**Sea Level:** In this report "sea level" refers to the National Geodetic Vertical Datum of 1929--a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929.

---

Abbreviated water-quality units used in this report: Chemical concentrations in water are expressed in milligrams per liter (mg/L) or micrograms per liter ( $\mu\text{g/L}$ ). Milligrams per liter is a unit expressing the concentration of chemical constituents in solution as weight (milligrams) of solute per unit volume (liter) of water; 1,000  $\mu\text{g/L}$  is equivalent to 1 mg/L (milligram per liter). Water temperature in degrees Celsius ( $^{\circ}\text{C}$ ) can be converted to degrees Fahrenheit ( $^{\circ}\text{F}$ ) by use of the following equation:

$$^{\circ}\text{F} = 1.8 (^{\circ}\text{C}) + 32$$

---

<sup>2</sup>The standard inch-pound unit for hydraulic conductivity is cubic foot per day per square foot, which reduces mathematically to foot per day. The standard inch-pound unit for transmissivity is cubic foot per day per square foot times foot of aquifer thickness, which reduces mathematically to foot squared per day.

# Geohydrology and Water Quality of Stratified-Drift Aquifers in the Contoocook River Basin, South-Central New Hampshire

By Philip T. Harte and William Johnson

## ABSTRACT

*This report presents the results of a study by the U.S. Geological Survey, in cooperation with the New Hampshire Department of Environmental Services, Water Resources Division, to describe the geohydrology and natural water-quality characteristics of stratified-drift aquifers in the Contoocook River basin. Deglaciation during the Pleistocene time period caused the formation of multiple glacial lakes, which had a pronounced effect on the distribution and lithology of stratified-drift aquifers in the basin. The main stem of the Contoocook River is underlain by sediments deposited by successively lower glacial-lake stages. Coarse-grained sediments that form aquifers were deposited in deltas and eskers that drained into these lakes. The upland valleys to the west of the main stem contain valley-fill sequences.*

*Discontinuous stratified-drift aquifers underlie 16 percent of the 766 mi<sup>2</sup> (square miles) of the Contoocook River basin and are present in low-lying river valleys. The largest contiguous aquifer is approximately 20 mi<sup>2</sup> and is in the central river valley of the Contoocook River. Tributary river valleys along the west flank of the basin contain aquifers much smaller in size than aquifers along the Contoocook River. Saturated thickness of stratified-drift aquifers exceeds 200 feet in two areas (with a maximum thickness of 230 feet) but is generally less than 80 feet. Transmissivities estimated from lithologic logs exceed 8,000 ft<sup>2</sup>/d (feet squared per day) in three aquifers but is commonly less than 2,000 ft<sup>2</sup>/d.*

*Ground-water withdrawals from stratified-drift aquifers are estimated at 1.60 Mgal/d (million gallons per day) and account for 40 percent of total ground-water withdrawals within the basin. Municipal ground-water withdrawals from stratified drift are 1.54 Mgal/d. Domestic and commercial users withdraw 0.06 Mgal/d from stratified-drift aquifers.*

*Ground-water recharge to the stratified-drift aquifers from infiltration of precipitation is estimated at 121 Mgal/d or 44,195 million gallons per year on the basis of an area-weighted calculation with an average rate of 21 in/yr (inches per year). Additional recharge from lateral flow at aquifer boundaries and infiltration of surface water also occurs. The effective ground-water-recharge rate for the entire basin is 13.9 in/yr based on hydrograph separation of streamflow. This rate integrates the effective recharge of all aquifers in the basin (stratified drift, till, and bedrock) and accounts for recharge across the entire land surface of the study area, including areas with surficial deposits of till and bedrock.*

*Aquifer yields were estimated for four aquifers by use of an analytical ground-water-flow model based on the Theis confined-flow equation adjusted to account for boundary effects typically associated with stratified-drift aquifers. The maximum sustained aquifer yield during a period of no recharge was 1.85 Mgal/d at the Greenfield-Otter Brook aquifer. Aquifer yields can exceed this rate during periods of recharge.*

*The indigenous ground-water quality of stratified-drift aquifers is probably a calcium bicarbonate water type. Water samples were collected from 11 test wells to assess background water-quality. All wells were located to avoid areas of known water-quality problems. Data from the New Hampshire Department of Environmental Services for an additional 10 public-supply wells were incorporated to augment spatial coverage throughout the aquifer. In general, concentrations of trace metals were below recommended levels set forth by U.S. Environmental Protection Agency primary and secondary drinking-water regulations. Volatile organic compounds were below detection levels of 3 micrograms per liter. Elevated sodium chloride concentrations at some locations may be the result of road-salting activities during winter.*

## INTRODUCTION

This study of stratified-drift aquifers in the Contoocook River basin is one of a series of cooperative efforts by the U.S. Geological Survey (USGS) and New Hampshire Department of Environmental Services, Water Resources Division (NHDES-WRD), to provide geohydrologic information on the stratified-drift aquifers for use by regional and local planners in optimizing use of ground-water resources. Stratified-drift aquifer studies are divided by major river basins in New Hampshire (fig. 1). Completed studies and reports include the Nashua Regional Planning Commission area (Toppin, 1987); the Exeter, Lamprey, and Oyster River basins (Moore, 1990); the Saco River basin (Tepper and others, 1990); the Bellamy, Cocheco, and Salmon Falls River basins (Mack and Lawlor, 1992); and the Lower Merrimack and coastal River basins (Stekl and Flanagan, 1992).

The Contoocook River basin has a population of 108,798 among 34 towns (H.S. Boisvert, New Hampshire Office of State Planning, written commun., 1991). Projected population for the year 2000 is estimated to be 120,835 (New Hampshire Office of State Planning, 1987). To meet projected water demands, towns are searching for alternative sources of water. Ground-water withdrawals for the basin are estimated at 4.05 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991). A projected additional need of 0.45 Mgal/d by the year 2000 is required to keep pace with extrapolated population increases. Currently (1992), ground-water withdrawals from stratified drift are 40 percent of total withdrawals (1.60 Mgal/d), from bedrock are 52 percent, and from till are 8 percent.

New water-quality regulations promulgated by the U.S. Environmental Protection Agency (USEPA) have set limitations on suspended sediments and bacteria, which are common water-quality problems in surface water but not in ground water. The exception is ground water derived from induced infiltration of surface water (streams, lakes, and wetlands). Municipal water supplies in the study area rely primarily on surface water but may augment supplies with ground water. The towns of Hillsborough, Boscawren, Concord, Hancock, Andover, Hopkinton, and New London rely almost solely on surface water to meet municipal demands. The towns of Peterborough, Jaffrey, Henniker, Antrim, and Bennington rely primarily on ground-water withdrawals from stratified-drift aquifers.

Ground water in several stratified-drift aquifers has been affected by contamination from toxic wastes. Two contaminated sites have been classified by the USEPA as Superfund sites: the South Well field in Peterborough and a manufacturing company in Jaffrey. These water-quality problems have exemplified the need to discover alternate sources of water supply.

### Purpose and Scope

This report presents the findings of a 1987-90 study by the USGS to describe the geohydrology of the stratified-drift aquifers in the Contoocook River basin. The report primarily describes (1) areal extent, saturated thickness, and hydraulic characteristics of the stratified-drift aquifers; (2) potential aquifer yields; and (3) background water quality.

Major emphasis is on the geohydrology of potentially productive aquifers. For purposes of this report, potentially productive aquifers are defined as stratified-drift deposits covering an area more than 0.10 mi<sup>2</sup>, containing coarse-grained sediments, and having a saturated thickness greater than 30 ft. The selection of aquifer dimensions and characteristics were based on a review of locations of municipal-supply wells drilled into stratified-drift aquifers in the State, and these dimensions and characteristics seem to be reasonable limiting criteria in supplying adequate water yield to a municipal source. Water-yield estimates are made for the major subbasins in the Contoocook River basin (fig. 2) from (1) analyses of streamflow data to characterize base-flow recessions and water budgets and (2) regional qualitative analysis of hydraulic characteristics of the stratified drift. A detailed assessment of potential aquifer yield was done for some of the most promising undeveloped aquifers in each subbasin by use of analytical ground-water-flow models.

### Approach and Methods

The following approach and methods were used in this study:

1. An inventory of subsurface data was compiled from well logs of the NHDES-WRD; the New Hampshire Department of Transportation; domestic well records; consultant reports on file with private firms and municipalities; and data from published and unpublished USGS studies. Local identifiers assigned to wells and test



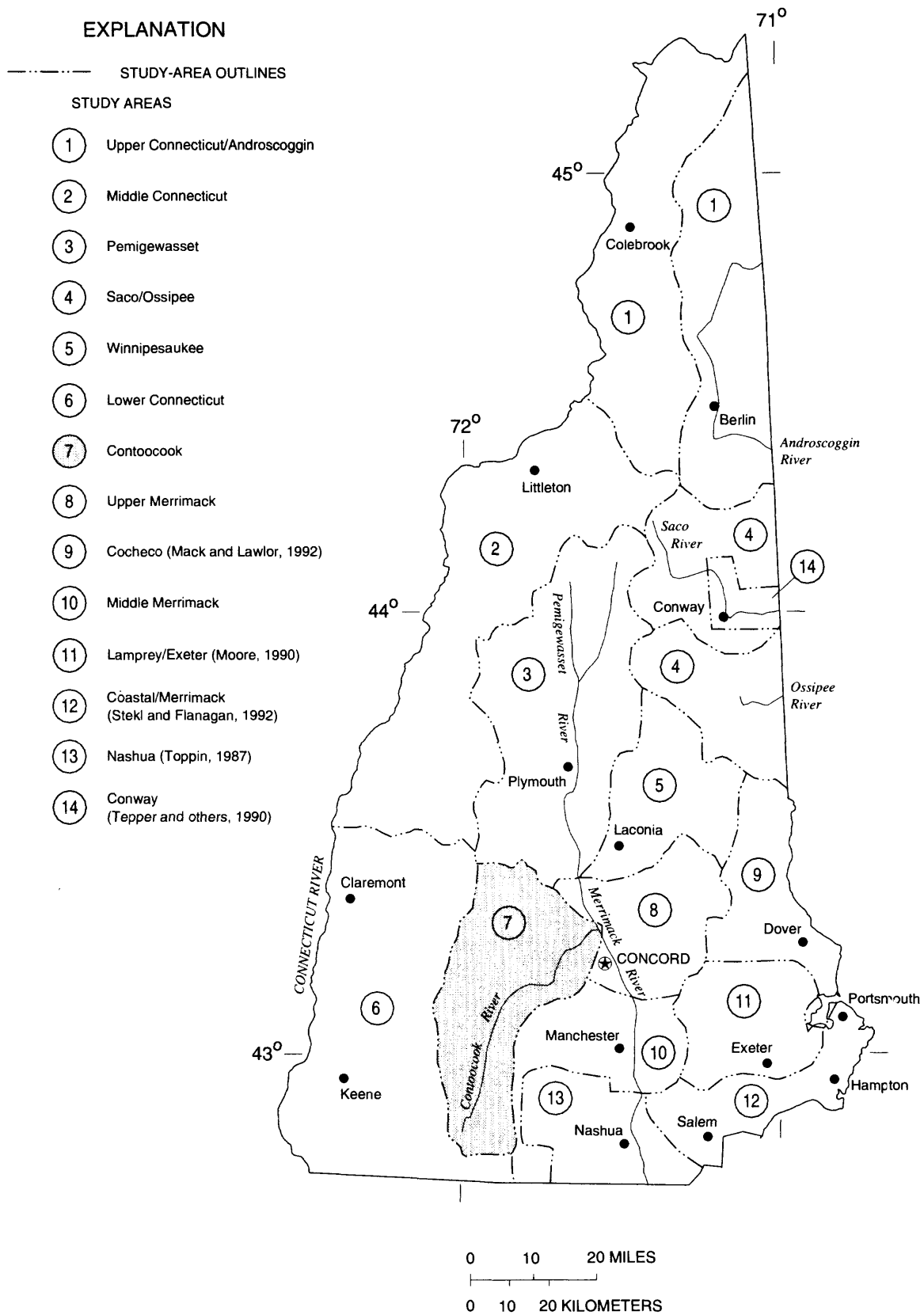


Figure 1.--Location of the Contoocook River basin (shaded area) and other stratified-drift aquifer studies in New Hampshire.

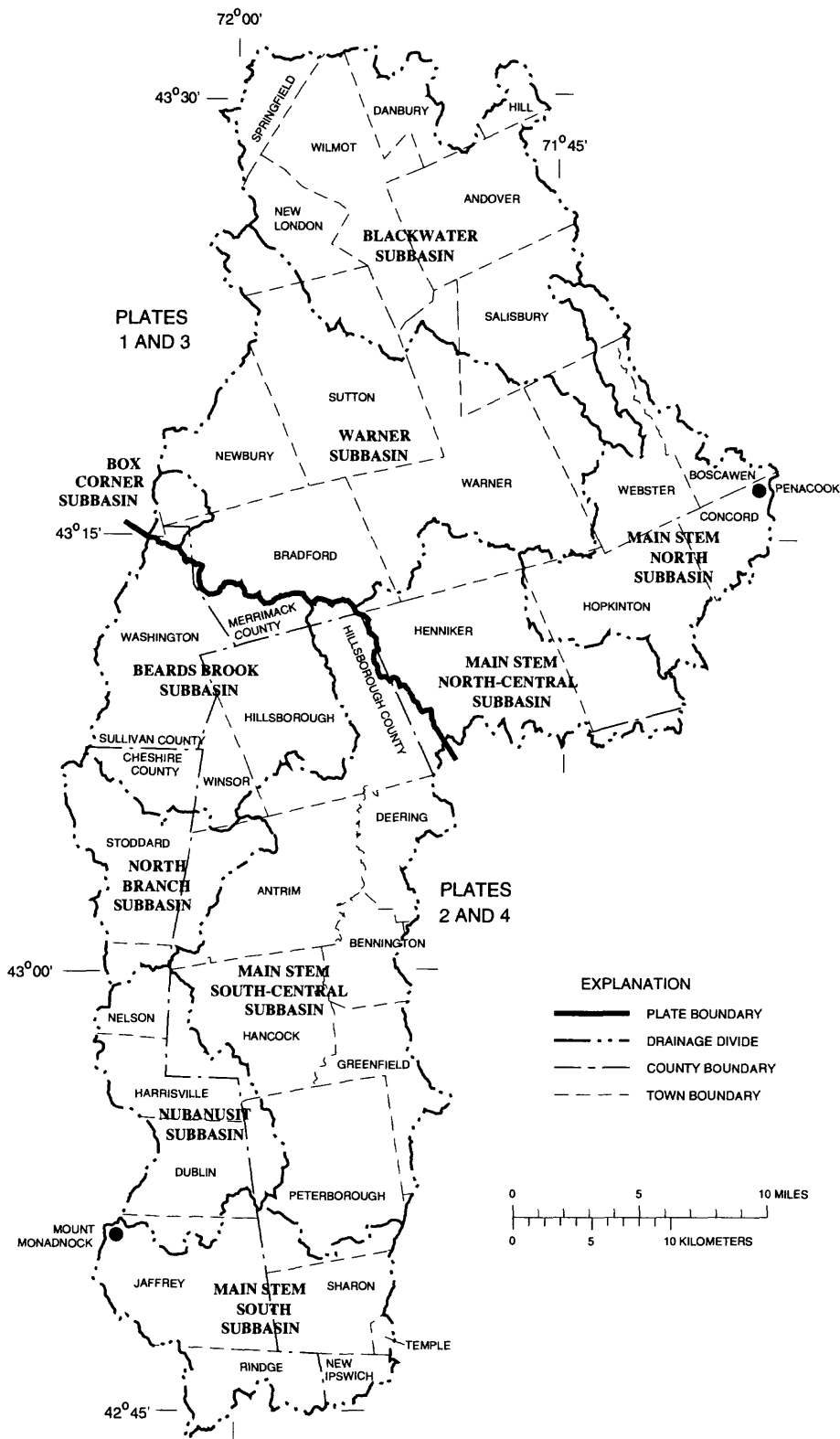


Figure 2.--Location of subbasins, counties, towns, and areas in the Contoocook River basin shown on plates 1-4.

borings consist of a two-character town code (table 1), a letter designation ("A" for borings related to hydrology, "B" for borings related primarily to construction, and "W" for all wells in which casing was set), and a sequential number within each town. For example, the first well in the town of Henniker is HMW-1. Data from more than 2,200 sites in the inventory were entered into the USGS Ground-Water Site Inventory (GWSI) national data base. Each site is referenced by a site identifier, which is composed of latitude, longitude, and a two-digit identification number for data from the same coordinate location.

2. Aquifer boundaries were defined with the aid of (1) soil maps (U.S. Soil Conservation Service, 1985), (2) several unpublished surficial geologic maps from the USGS Northeast Glacial Regional Aquifer System Analysis (RASA) program (A.D. Randall, U.S. Geological Survey, written commun., 1989), (3) lithologic logs from wells, (4) test holes, (5) bridge borings, (6) data from consultant reports, and (7) field mapping of the contact between till and stratified drift. Aquifer boundaries were estimated primarily from soil maps and were based on soil genesis. Soils derived from sand and gravels were included as stratified-drift aquifers, and soils

Table 1.--Town codes used in the numbering system for wells and borings

| Town                | Town code | Town         | Town code |
|---------------------|-----------|--------------|-----------|
| Cheshire County     |           |              |           |
| Dublin              | DK        | Rindge       | RG        |
| Harrisville         | HI        | Stoddard     | SP        |
| Nelson              | NB        | Jaffrey      | JB        |
| Hillsborough County |           |              |           |
| Antrim              | AO        | Hillsborough | HO        |
| Bennington          | BN        | New Ipswich  | NJ        |
| Deering             | DE        | Peterborough | PC        |
| Greenfield          | GS        | Sharon       | SI        |
| Hancock             | HG        | Windsor      | WQ        |
| Merrimack County    |           |              |           |
| Andover             | AN        | Newbury      | ND        |
| Boscawen            | BT        | New London   | NL        |
| Bradford            | BV        | Salisbury    | SB        |
| Concord             | CV        | Sutton       | SY        |
| Danbury             | DB        | Warner       | WC        |
| Henniker            | HM        | Webster      | WH        |
| Hill                | HN        | Wilmot       | WM        |
| Hopkinton           | HU        |              |           |
| Sullivan County     |           |              |           |
| Washington          | WE        |              |           |

derived from till were excluded. Boundaries estimated with soils maps were then refined by examining logs of wells adjacent to the boundary and by field checking the stratified-drift and till contact.

3. Seismic-refraction profiles were completed at 32 locations (pls. 1-2) to determine depths to water table and bedrock. Seismic-velocity values used to measure the materials under investigation ranged from 900 to 1,500 ft/s for unsaturated stratified drift, 5,000 ft/s for saturated stratified drift, and from 10,000 to 15,000 ft/s for bedrock (Haeni, 1986). Interpreted seismic profiles in this report show (1) the top of the profile, which represents land surface in feet above sea level; (2) an estimate of altitude of the water table within unconsolidated deposits at the time the seismic data were collected; and (3) an estimate of altitude of the bedrock surface. The relative altitudes of each geophone and shot were determined by leveling, if significant altitude differences between geophones were observed. The actual altitudes, relative to sea level, were estimated from topographic maps. Altitudes estimated from topographic maps are assumed to be accurate to within one-half of the contour interval (usually 10 ft). Actual depths to the bedrock surface are probably within 10 percent of the estimates from seismic-refraction profiles. Till is not accounted for in these interpretations because it is thin (less than 10 ft) and cannot be detected with seismic-refraction methods. Where till is present and is not accounted for in the interpretation of seismic data, the computed depth to bedrock is slightly less than the actual depth.
4. Test drilling was completed at 58 locations to collect lithologic and hydrologic data (pls. 1-2). Split-spoon samples were collected at 10- to 20-ft intervals to identify stratigraphy and lithologic properties. Observation wells were constructed at 27 locations (pls. 1-2) where the stratified drift was suitable for measuring water levels and collecting ground-water samples for water-quality analysis. Wells were constructed of threaded 2-in.-diameter polyvinyl chloride (PVC) pipe with 2- to 5-ft slotted screens. Wells were initially developed by surging with compressed air to displace water and sediment from the well screen and to improve the hydraulic connection with aquifer materials. Wells were further developed by use of a centrifugal pump to evacuate ground water.
5. Ground-water levels were measured at the 27 observation wells during late summer and early fall 1989 to provide information on water-level fluctuations. Other sources of data for water levels were the NHDES-WRD, consultant reports, USGS seismic-refraction data, and altitudes of streams and other water bodies shown on USGS topographic maps.
6. Maps of the water table, direction of ground-water flow, and saturated thickness were constructed from data collected by use of the preceding methods. At the contact between till and stratified drift or bedrock and stratified drift, the thickness of stratified drift was assumed to be equal to zero. Several steps were required in estimating saturated thickness at wells where data on water-table altitude and till or bedrock-surface altitude were not available. Interpreted contoured values from water-table maps were used to estimate the saturated thickness at wells where depth to bottom of the aquifer was available but water levels were not. Aquifer-bottom depths needed to determine saturated thickness, were collected from a variety of sources. These sources are listed in order of priority:
  - a. Till surface, as determined from drilling logs (if till is present, it is the bottom of the stratified-drift aquifer);
  - b. Bedrock surface, as determined from drilling logs;
  - c. Bedrock surface, as determined from seismic-refraction or reflection surveys;
  - d. Bedrock surface, assumed to be 10 ft above the casing bottom for wells finished in bedrock (a common drilling procedure used for domestic wells in the area is to drive casing 10 ft into bedrock);
  - e. Auger refusal, assumed to be at or above the bedrock surface (depending on whether refusal is assumed to be in bedrock or boulders); and
  - f. Bedrock surface, assumed to be at a depth greater than the bottom of the well in wells that did not reach bedrock or refusal. Unless the thickness of a till is known, it is assumed to be insignificant (less than 10 ft) (Goldthwait and others, 1951).
7. Streamflow measurements were made during base flow at 75 sites to determine distribution of ground-water recharge and discharge and to

help estimate aquifer yields. Stream discharge measurements, accurate to 10 percent, were made by use of USGS current meters according to procedures described by Rantz and others (1982a,b). Most measurements (71 out of the 75) were made from September 29 through October 3, 1988, when flow duration of the discharge of the West Branch Warner River (station 01085800), an unregulated stream with a drainage area of 5.75 mi<sup>2</sup>, was about 88 percent. Streamflow consists predominantly of base flow when durations of measured flows are about 82 percent.

8. Regional hydraulic characteristics of stratified-drift aquifers were determined from base-flow recession characteristics of the 10 subbasins within the Contoocook River basin by use of streamflow data from the 10 continuous-record streamflow-gaging stations (fig. 3 and pls. 1 and 2). Base-flow recessions were analyzed by methods developed by Rorabaugh and Simmons (1966) to determine the hydraulic diffusivity (D-transmissivity (T) divided by Storativity (S)) of the drainage area. Hydraulic diffusivity was computed from coincident base-flow recessions based on streamflow data from 1962 through 1978, a period common to all gaging stations. Hydraulic diffusivity is computed from streamflow recessions after the critical time (the time in days after recharge ceases), which corresponds to the beginning of the base-flow recession. The governing relation between base-flow recession and hydraulic diffusivity is expressed by the equation

$$D = \frac{0.933 (a^2)}{(\Delta t / \log \text{cycle})}, \quad (1)$$

where D is hydraulic diffusivity, in ft<sup>2</sup>/d;  
 a<sup>2</sup> is average half-width of the aquifer squared, in ft<sup>2</sup>; and  
 Δt / log cycle is the number of days required for base flow to decline over one log cycle.

The average half-width of the aquifer was determined from the average distance between a stream traversing a stratified-drift aquifer and the stratified-drift/till contact. The average half-width of stratified-drift aquifers in a subbasin was used because base flow has been found to be controlled primarily by the percentage of stratified drift (Thomas, 1966). Bevans (1986) shows several examples of base-flow recessions.

9. Ground-water budgets and effective recharge were determined by local minima hydrograph-separation techniques (Pettyjohn and Penning, 1979) on the basis of streamflow data from the 10 continuous-record gaging stations (fig. 2).
10. Bulk hydraulic conductivities (K) were estimated on the basis of field descriptions of the grain-size distributions in geologic logs for each test well and sieve analysis data from 454 samples obtained during drilling for this study and six other New Hampshire ground-water studies (Moore and others, 1994; Moore, 1990; Mack and Lawlor, 1992; Flanagan and Stekl, 1990; J.D. Ayotte and others, U.S. Geological Survey, written commun., 1991). Hydraulic conductivities of these samples were determined by use of an empirical relation developed by Olney (1983), where the effective size (d<sub>10</sub> in phi units) is used to predict the hydraulic conductivity (K, in feet per day):

$$K = 2,100 \times (10)^{-0.655d_{10}}. \quad (2)$$

Effective grain size is defined as the grain diameter such that 10 percent of the sample grains are smaller and 90 percent are larger than the effective grain size. The fine-grained part of a sample has a substantial effect on resistance to ground-water flow because of the attraction of water molecules to particle surfaces (Hazen, 1892) and because of the reduction of porosity and, hence, permeability, by the filling of pore space between large grains by small grains. The effective grain size of each of the 454 sediment samples was determined directly from cumulative grain-size-distribution curves as determined by sieve analysis. The estimated hydraulic conductivity falls within the range of values estimated by the other methods currently in use for estimating hydraulic conductivity from grain-size distributions (including Masch and Denny, 1966; Bedinger, 1961; and Krumbein and Monk, 1942). This method of estimating K provides bulk estimates and does not account for the directional hydraulic conductivity properties of an aquifer.

11. Aquifer yields were estimated for selected aquifers with the potential of supplying water for municipal use by means of an analytical ground-water-flow model (Mazzaferro and others, 1979). The model incorporates image-well theory (Ferris and others, 1962) and the Theis nonequilibrium formula to solve the two-dimensional ground-water-flow equation. The model requires assumptions of homogeneous and

isotropic conditions and an initially flat water table. No-flow and recharge boundaries are incorporated by use of image-well theory. Maximum aquifer yields are constrained by availability of induced infiltration from streams and lakes, ground-water recharge, and draw-down in the pumped well.

12. Surface-water-quality data were not collected for this study. Spatial distribution of surface-water-quality data was evaluated by use of designated river classifications from the New Hampshire Department of Environmental Services (New Hampshire Water Supply and Pollution Commission, 1973).
13. Ground-water samples were collected from 11 observation wells (installed for this study) and were analyzed for common ions, trace metals, volatile organic compounds (VOC's), specific conductance, pH, water temperature, dissolved oxygen, and alkalinity. Additional water-quality data collected from 10 municipal-supply wells by the NHDES-WRD were incorporated into the data set. These data were used to assess the water-quality characteristics of ground water in the stratified-drift aquifers.

All water samples from USGS observation wells were analyzed by the USGS National Water Quality Laboratory. Water samples were collected and analyzed according to procedures described by Fishman and Friedman (1989). Observation wells were pumped a minimum of three casing volumes before samples were collected. Temperature, specific conductance, dissolved-oxygen concentration, and pH were monitored during pumping to ensure that ground water being sampled was representative of the aquifer.

## Description of Study Area

The Contoocook River basin covers 766 mi<sup>2</sup> of south-central New Hampshire and includes, in descending order of land area, the counties of Merrimack, Hillsborough, Cheshire, and Sullivan (fig. 2). The altitude of the terrain ranges from 3,165 ft at Mount Monadnock in the southwest part of the study area to 366 ft at Penacook in the northeast. The area is mostly rural and the towns and small cities within the study area are largely concentrated in river valleys.

The Contoocook River basin is bounded by ridges to the west and east and by gentle hills to the south and the north. Surface water drains to the north-

flowing Contoocook River (fig. 3). Major tributaries, in descending streamflow, include Blackwater River, Warner River, Beards Brook, Nubanusit River, and North Branch. The major tributaries drain eastward toward the Contoocook River. The Contoocook River and its major tributaries flow across valley-fill deposits that are generally less than 2 mi wide. Because periodic flooding was common in the narrow river valleys in the past, the U.S. Army Corps of Engineers installed several flood-containment structures including the Blackwater River reservoir and the Hopkinton reservoir and several dams along the Contoocook River at Henniker and Penacook. The strike of the Contoocook River valley coincides with the Merrimack synclinorium (Billings, 1956).

Valley-fill aquifers are composed of stratified drift. The surrounding uplands are composed primarily of till and bedrock. Stratified-drift river-valley aquifers along the major tributaries are discontinuous and form a succession of multiple aquifers at different altitudes from west to east. Stratified-drift river-valley aquifers along the Contoocook River are generally larger and more continuous than those along the major tributaries.

The climate of the Contoocook River basin, usually humid and temperate, is characterized by uniform monthly precipitation, warm summers, and cold winters. Mean monthly temperatures range from 26.6 °F in January to 74 °F in July for the period of 1962 through 1977 at Concord (fig. 3) (National Oceanic and Atmospheric Administration, written commun., 1989). In upland areas on the western flank of the basin, mean monthly temperatures are probably cooler because of orographic effects.

Precipitation is fairly uniform over the basin; annual averages range from 42 in. at Concord to 46 in. at MacDowell Reservoir in Peterborough. These averages are based on records from 1955 through 1989 for eight stations within and around the study area (National Oceanic Atmospheric Administration, written commun., 1989). Precipitation-measurement stations are shown in figure 3.

## Previous Investigations

A preliminary report by Cotton (1977) on the ground-water resources of the stratified drift for the entire Contoocook River basin indicated that the greatest potential for water supply was in coarse-grained stratified-drift deposits in the Contoocook River valley. A site-specific investigation of the Peterborough south municipal well field was done as

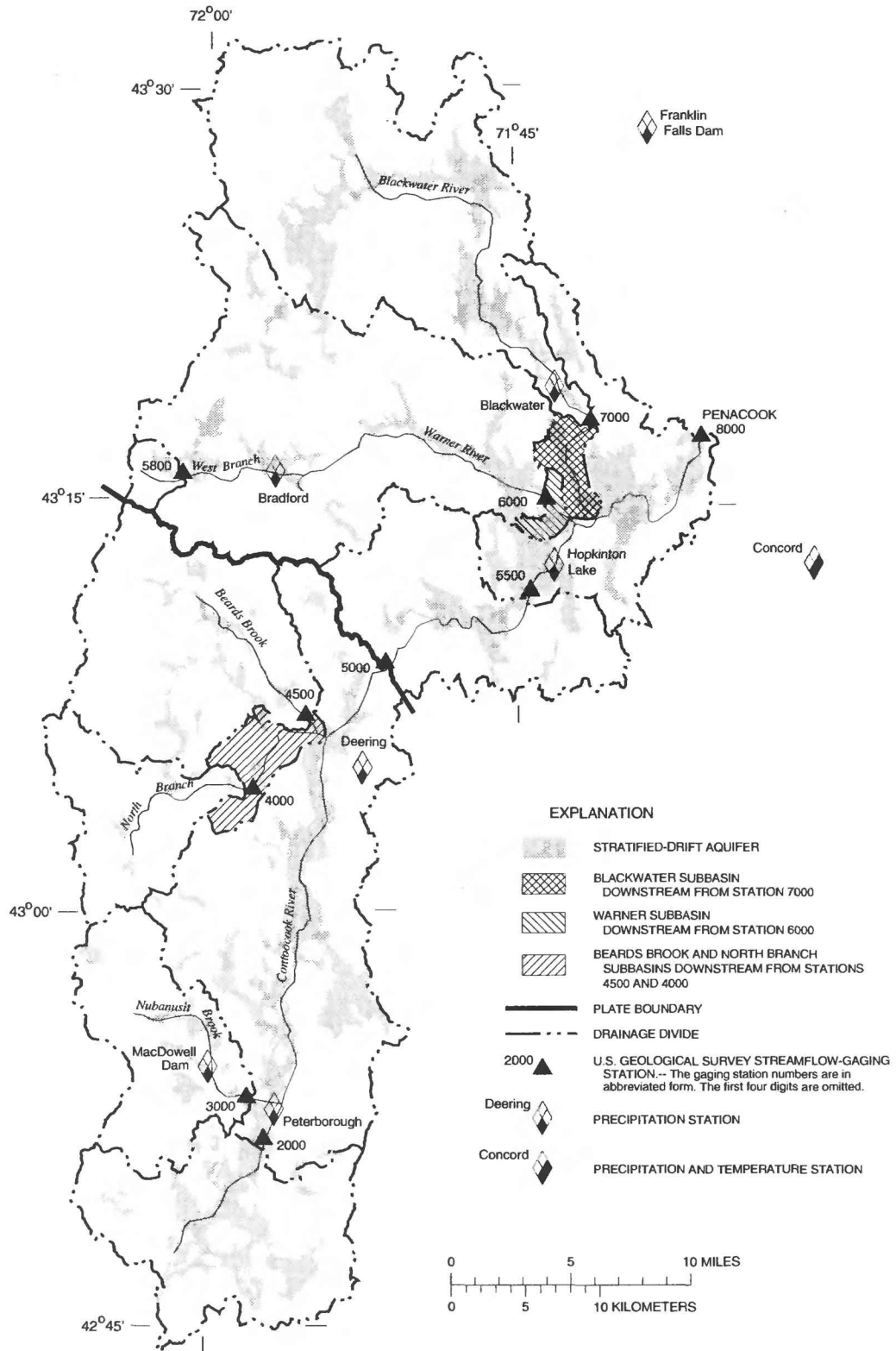


Figure 3.--Location of stratified-drift aquifers, subbasins, streams, streamflow-gaging stations, and climatological stations in the Contoocook River basin.

part of a Superfund study (Emtek Incorporated, 1989). Ground-water resources for the entire town of Peterborough were evaluated by Whitman and Howard, Inc. (1985). Other site-specific investigations were completed for the town of Jaffrey (Camp, Dresser, and McKee, 1977), for the town of Warner and for the town of Henniker (D.L. Maher Co., written commun., 1988 and 1979). Several test wells were installed and aquifer tests were done for the town of Contoocook and for the town of Bennington (New Hampshire Water Supply and Pollution Control Division, written commun., 1989). The surficial geology of New Hampshire was examined by Goldthwait and others (1951).

### Acknowledgments

Appreciation is expressed to officials of all towns in the study area and to private citizens who allowed the authors to install and sample observation wells and to do seismic-refraction surveys on their properties. Appreciation is also extended to the private consultants and well drillers who made reports and drilling logs available and to personnel at the New Hampshire Water Supply Board for collecting well data. Special thanks to Fay Rubin, Complex Systems Research Center, for assisting in digitizing the geohydrologic data.

## GEOHYDROLOGIC SETTING

By Richard Bridge Moore<sup>3</sup>

Three types of aquifer materials in the study area are (1) stratified drift, which is a major source of ground water for towns and cities and is the focus of this study; (2) till, which locally can supply minor amounts of water for households; and (3) bedrock, which differs in yield from place to place but provides many households with water.

### Stratified Drift

Stratified drift consists of stratified, sorted, dominantly coarse-grained sediments (sands and gravels) deposited by glacial meltwater at the time of deglaciation. Included as part of the stratified-drift

aquifers (fig. 3) are recent alluvial and windblown deposits, as well as deposits redistributed by the rapid drainage of glacial-ice-dammed lakes, in contact with stratified drift. Hydraulic characteristics of these sediments that affect ground-water storage and flow are related to the glaciofluvial environment in which they were deposited. Stratified-drift deposits are composed of distinct layers of sediments with different grain-size distributions sorted according to the depositional environment. For example, swiftly moving meltwater streams deposit coarse-grained sediments with large pore spaces between grains. If saturated, coarse-grained sediments form aquifers that are able to store and readily transmit ground water to wells. As meltwater slows, fine-grained sediments, including fine silts and clays, are deposited in lakes and ponds; these deposits do not readily transmit water to wells.

### Lakes Dammed by Glacial Ice in the Contoocook Valley During Deglaciation

During deglaciation, the natural drainage to the north in the Contoocook River basin was obstructed by the ice margin, and lakes formed (Upham, 1897, p. 11-12). As the ice margin receded to the north, eight progressively lower lake outlets were exposed one by one, and the older lakes were drained rapidly to the levels of the newly exposed outlets.

The surfaces defining previous lake levels of the glacial lakes in the Contoocook River valley have been uplifted in response to the removal of the glacial ice (isostatic rebound), the uplift being greater to the north-northwest. Projections of these previous lake surfaces now dip to the south-southeast. No studies have been made in the Contoocook basin to determine the exact slope of these projected lake surfaces; however, an estimate can be made by looking at adjacent valleys to the east and to the west.

To the west of the Contoocook River basin, in the adjacent Connecticut River valley, a stabilized level of glacial Lake Hitchcock is indicated by 23 ice-contact deltas and numerous other deltas that have not been modified by collapse and have topset-foreset contacts that fall along a single plane. This stable lake level indicates that the postglacial uplift of New England, which resulted from the melting of the con-

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<sup>3</sup> U.S. Geological Survey.



tinental ice sheet, was delayed by at least 5,000 years (Koteff and Larsen, 1989). This plane, after the postglacial uplift, now dips about 4.8 ft/mi downward in the direction of about S. 21° E. (Koteff and Larsen, 1989). Likewise, projected lake-level surfaces of glacial lakes to the east in the Merrimack River valley (glacial Lakes Tyngsboro, Merrimack, and Hooksett) now slope 4.7-4.9 ft/mi downward to the south-southeast (Koteff and others, 1984). From this information, glacial lakes in the Contoocook River basin also are assumed to have had previous lake-level surfaces that now slope about 4.8 ft/mi to the south-southeast.

Areas covered by these glacial-ice-dammed lakes were estimated by projecting, from the outlet surface for each lake, that is 4.8 ft/mi upward to the north-northwest in order to determine where the shoreline would have been; that is, where this projected surface intersects the current land surface. In this process, the northernmost ice-margin position was estimated as the northern shore of each lake. The lakes shown in figure 4 represent the maximum possible extent of each lake immediately before it began to drain. Subsequent drainage to a lower lake level resulted from the exposure of a new outlet.

The earliest of the glacial-ice-dammed lakes in the Contoocook River basin were small and formed near the southernmost divide as the active ice margin first began to recede northward through the study area. These small lakes (0.6 mi<sup>2</sup> and 1.8 mi<sup>2</sup>) quickly became filled with sediments as the water escaped out of the basin through outlets 1 and 2 in New Ipswich and Rindge, respectively (fig. 4).

A third glacial lake was slightly lower and formed as outlet 3 was exposed. It must have persisted until the ice margin receded northward and outlet 4 was exposed (fig. 4). At its maximum extent, this third glacial lake encompassed about 24 mi<sup>2</sup> (less any areas where stagnant glacial-ice blocks may have remained grounded).

The exposure of outlet 4 in Greenfield (fig. 4) must have caused the lake level to drop quickly by about 70 ft. Presumably, the deeply eroded V-shaped channel at the outlet, which has been eroded into till and bedrock, was created by rapid drainage of the lake to this temporary base level.

Outlet 4 remained the spillway for the lake until the ice margin retreated a couple of miles north to potential outlets in Greenfield. The lowest point to the north in Greenfield along the existing drainage divide must have become the new control for the lake.

The new, lower outlet in Greenfield, outlet 5, would have drained the lake to a level about 130 ft

lower than the previous level at outlet 4. Outlet 5 was complicated in that the drainage shifted from outlet 5a to 5b and finally to 5c (fig. 5). Initially, the lake would have had a till- and bedrock-controlled spillway at outlet 5a. Severe erosion is found along Rand Brook below this outlet (Carol Hildreth, Office of the New Hampshire State Geologist, personal commun., 1992). This erosion must have resulted from the lowering of the lake level from outlet 4 to outlet 5a. Following this initial drop in lake level, Rand Brook became blocked, presumably by glacial ice, and the lake rose until outlet 5b (fig. 5) controlled the lake level. At that time, as the ice margin was still adjacent to outlet 5a, a delta was deposited across the small bay adjacent to outlet 5a (fig. 5). Once Rand Brook again became free of glacial ice, a new spillway (outlet 5c, fig. 5) formed between the till shore and the deltaic sand and gravel. As the ice margin receded further northward, this delta-formed spillway remained and controlled the lake level.

Ice-marginal deltas, formed sequentially over a distance of 18 mi to the north-northwest, were deposited in this lake. Deltas having tops that correspond to a lake controlled by outlet 5 are found in Greenfield, Hancock, Antrim, Hillsborough, and Bradford. These deltaic deposits were deposited in a single, large glacial lake, according to Upham (1897). At its maximum extent, this lake would have covered about 83 mi<sup>2</sup> (less any area covered by stagnant-ice blocks) as compared to Lake Winnesaukee that currently (1992) covers 70 mi<sup>2</sup>.

The till and sand-and-gravel spillway in Greenfield remained the outlet to the lake until the ice margin receded about 14 mi directly north and cleared Craney Hill in Henniker. The exposure of a new outlet 6 drained the lake through Weare. Lake levels would have dropped about 390 ft, and the lake would have greatly decreased in areal extent. This small lake, corresponding to outlet 6, would have been about 12 mi<sup>2</sup> (less any areas covered by stagnant-ice blocks) at its maximum extent just before draining.

Evidence of severe erosion downstream from outlet 6 has been observed in the Piscataquog River basin in Goffstown, where stratified drift in the river valley apparently has been removed and only isolated remnant pockets of stratified drift remain (J.E. Cotton and J.D. Ayotte, U.S. Geological Survey, oral commun., 1991). A delta associated with the drainage of the large lake was deposited in the new 12-mi<sup>2</sup> lake. This delta, composed of reworked material, is found on the northern slope of Pats Peak in Henniker. Because of the water-bearing charac-

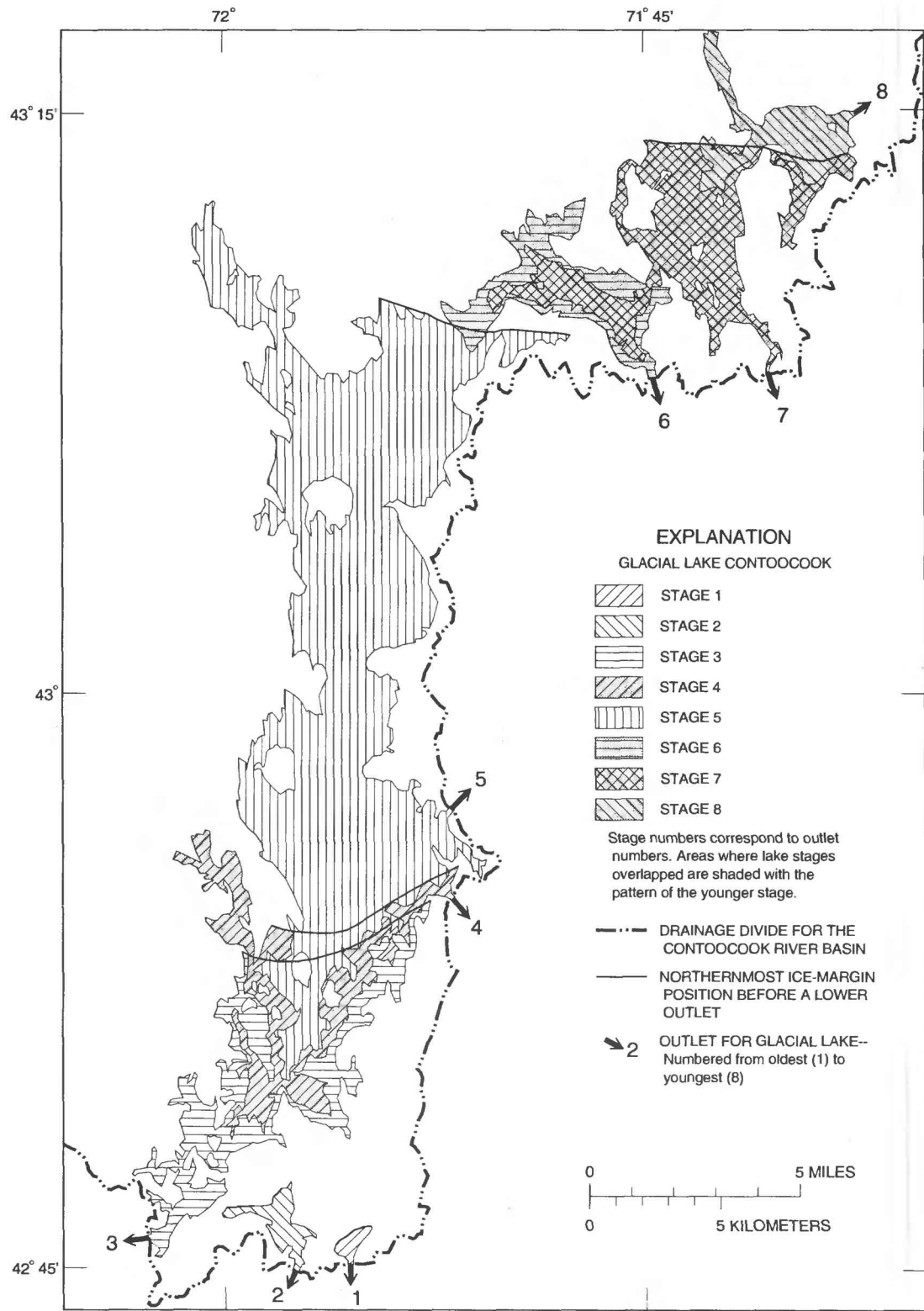
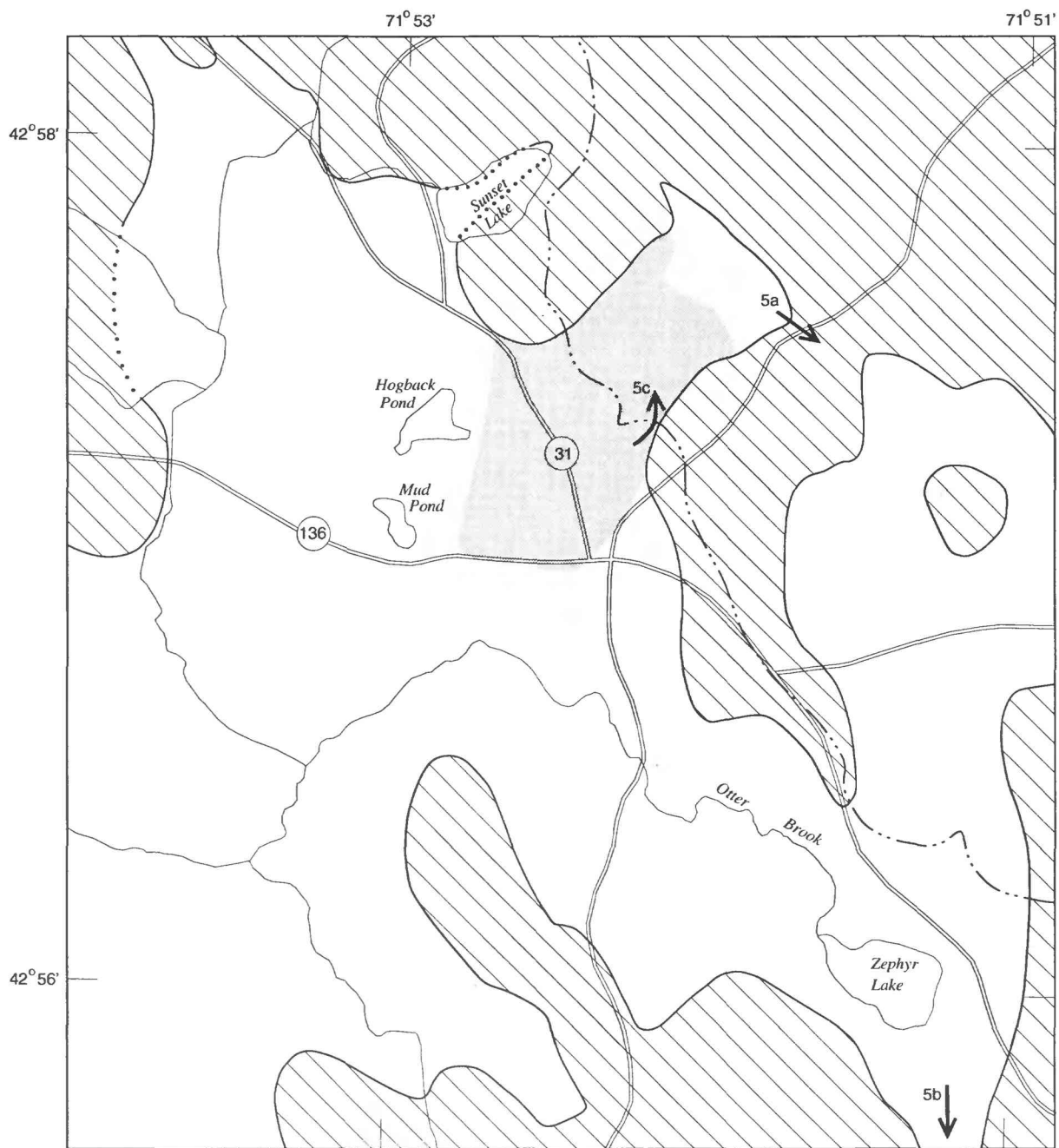
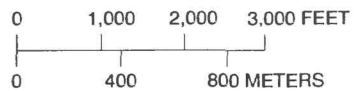








Figure 4.--History of successive lake stages and outlets of glacial Lake Contoocook.



Base modified from U.S. Geological Survey 1:24,000  
 Peterborough North, N.H. 1987,  
 Greenfield, N.H. 1987. Polyconic projection, Zone 19



**EXPLANATION**

- |   |                                      |   |  |
|---|--------------------------------------|---|--|
|  | DELTA DEPOSITED ACROSS<br>OUTLET BAY |  | CURRENT DRAINAGE DIVIDE FOR<br>CONTOOCCOOK RIVER BASIN   |
|  | STRATIFIED-DRIFT AQUIFER             |  | BOUNDARY OF STRATIFIED DRIFT--<br>Dotted where concealed   |
|  | TILL AND BEDROCK                     |  | 5b ↓<br>OUTLET OF GLACIAL LAKE--<br>Outlet 5a was the initial outlet<br>followed by outlet 5b then 5c. |

**Figure 5.--Outlets for stage 5 of glacial Lake Contoocook.**

teristics of this deposit, municipal wells for the town of Henniker were placed in the delta.

Outlet 6 remained the outlet to the lake until outlet 7 (fig. 4) was exposed in Weare. This exposure would have been accompanied by another approximately 90-ft drop in lake level, as well as more erosion and redeposition down the Piscataquog River basin.

The channel at outlet 7 has been used and modified in recent years by the U.S. Army Corps of Engineers as an alternative outlet for the Hopkinton-Everett Reservoir. During flooding of the current Contoocook River, water can be redirected down this modified spillway of an old glacial lake. At its maximum extent (just before draining), this glacial lake would have covered about 20 mi<sup>2</sup> (less any areas covered by stagnant-ice blocks).

Outlet 7 remained the outlet to the 20-mi<sup>2</sup> lake until outlet 8 (fig. 4) was exposed in Concord and the lake level dropped about 50 ft. This new spillway, composed of till, would have remained the outlet for the lake until it filled in with sediments and the lake level was lowered by erosion of the spillway. The course of the Contoocook River currently passes through what was once the outlet to the final lake that formed in the Contoocook River valley at the end of this long sequence of successively lower glacial lakes. At its maximum extent, this final lake probably covered about 7 mi<sup>2</sup>.

### Depositional Environment

The deglaciation process, and the location of glacial lakes during deglaciation, had a pronounced effect in determining the types of stratified-drift aquifers within the study area. Deglaciation was probably a systematic process of retreat with possible minor local readvances (Koteff and others, 1984). The presence of glacial lakes resulted in deltas and other lake deposits.

The primary aquifers in the study area are found in areas of former glacial-ice-dammed lakes. The aquifers consist of the ice-contact deltas, other deltas, eskers, and redistributed sediments resulting from the rapid draining of the lakes and, perhaps, by postglacial processes (fig. 4). The coarsest stratified-drift deposits in these areas are ice-contact deltas and eskers. Some of the deltas appear to have been fed by meltwater coming from esker tunnels within the ice. Deltas associated with feeder eskers are found in Hopkinton, Hancock, Greenfield, and New Ipswich. Narrow valleys within the bedrock surface, buried beneath parts of many of

these ice-contact deltas, are found in Hancock and Peterborough. These valleys may have been caused by erosion of the bedrock surface by glacial ice or subglacial meltwater before the deposition of the deltas. Saturated thicknesses are considerable at well sites above these valleys.

In the valleys in the northern part of the study area, drainage typically would not have been obstructed by the ice margin. Only small lakes would have formed there, where meltwater flowing from the glacier was dammed by till or bedrock, or where small northward-draining valleys were iced dammed. The largest of the lakes not held in by ice was in the area draining to outlet 8 (fig. 4). Above the areas inundated by glacial lakes, deglaciation resulted in morphosequences with eskers, kames, and outwash deposits, some of which grade into lake deposits. Examples of these types of aquifers are found in Warner, Bradford, Sutton, New London, and Andover.

Eskers are long ridges of sand and gravel deposited in the meltwater channels within the zone of ice stagnation during deglaciation. Eskers are found in Henniker, Hopkinton, Hillsborough, Hancock, Greenfield, Bennington, and New Ipswich. Where there is a significant saturated thickness, eskers commonly are good aquifers. Eskers and kames are also commonly found within areas inundated by the glacial lakes. Kames are low mounds, knobs, hummocks or short irregular ridges of sand and gravel deposited by glacial meltwater; the precise mode of formation is uncertain. Kames are located throughout the study area. Outwash consists of stratified deposits chiefly of sand and gravel removed or "washed out" from a glacier by meltwater streams and deposited beyond the margin of a glacier; usually in gently sloping outwash surfaces. Outwash surfaces include areas in Warner, Webster, Bradford, Andover, and New London.

### Till

Till--an unsorted mixture of clay, silt, sand, gravel, and rock fragments--is deposited directly by glacial ice. In the study area, till is discontinuous on the bedrock surface and is generally thin. The types of till commonly found in the study area are an upper, brownish, presumably oxidized till, underlain by a compact grayish till. The upper brownish till in many localities is an ablation till composed of loosely consolidated rock debris formerly carried by glacial ice. Ablation tills accumulated as glacial ice was removed by ablation. The lower compact till in many

localities is a lodgement till, originally deposited beneath the moving glacial ice. The thickest sequences of till are composed of lodgement till in drumlins. Generally in New Hampshire, till lies directly on bedrock.

Till generally is considered to be a minor source of ground water because of its low transmissivity. Large-diameter dug wells in till can provide modest amounts of water for household needs, but water-level fluctuations within till can be quite large, and dug wells can dry up during dry seasons. Ablation tills containing lenses of stratified sand and gravel are the most productive till deposits. Because sorted stratified drift and ablation tills can grade into one another, the distinction between the two material types is not always clear.

## Bedrock

The Contoocook River basin is underlain by bedrock associated with the Kearsarge-Central Maine Synclinorium (Lyons and others, 1986). This major structural belt trends generally north-northeast to south-southwest. The synclinorium contains metamorphic rocks of Devonian and Silurian age. Also included are younger Devonian plutonic rocks of the New Hampshire Plutonic Series (Billings, 1956).

Ground water is found in fractures within these rocks. The capacity of the bedrock to store and transmit ground water is limited by the number, size, and degree of fracture interconnection. Wells that tap bedrock commonly yield small supplies of water that are generally adequate for individual households. In areas where the bedrock is extensively fractured, high yields can be obtained. Six municipalities in New Hampshire, all outside the study area, have wells in crystalline bedrock that yield 0.5 Mgal/d or more (U.S. Geological Survey, 1985). Within the study area, yield, data stored in the GWSI data base from 1,585 wells finished in bedrock, ranged from 0 to 200 gal/min (0.29 Mgal/d) at well ANW-37 (pl. 1). Only 15 of these wells have yields greater than or equal to 100 gal/min (0.14 Mgal/d).

## AVAILABILITY AND USE OF WATER

The sole source of water to the Contoocook River basin is precipitation, which either returns to the atmosphere by evaporation; flows overland to streams, ponds, or swamps within the area; or in-

filtrates the soil. Some infiltration is stored temporarily as soil moisture and is subsequently returned to the atmosphere by evaporation, transpiration from plants, or seepage into surface-water bodies. The remainder percolates downward through the porous rock materials to the water table, where it becomes ground water. Ground water can reside in the saturated zone for many years, but it can return to the atmosphere by evapotranspiration and (or) by seepage to surface-water bodies. Ground water can also be captured during pumping from aquifers.

In summary, precipitation cycles through the basin in several ways: (1) It is released to the atmosphere by evapotranspiration, (2) It is consumed by various human activities, and (or) (3) It drains from the area as runoff. Runoff is of two basic types: surface runoff and subsurface, or ground-water runoff. Surface runoff includes the direct runoff of precipitation that travels over the soil surface to the nearest surface-water body. Subsurface runoff consists of ground-water that seeps to surface-water bodies. Some used water is returned to the hydrologic system from wastewater-treatment facilities Jaffrey, Peterborough, Henniker, Hopkinton, Hillsborough, Antrim, Bennington, and Warner.

Except for negligible amounts of water diverted to other drainage basins, nearly all water draining from the Contoocook River basin is measured as streamflow at the USGS streamflow-gaging station on the Contoocook River at Penacook (01088000, fig. 3). The mean annual streamflow at Penacook on the basis of 1930-77 streamflow data is 1,240 ft<sup>3</sup>/s or 801 Mgal/d (the water supply for the Contoocook River basin). The 7-day, 10-year low flow (lowest mean streamflow not exceeded during 7 consecutive days with an average recurrence interval of 10 years) is 94.0 ft<sup>3</sup>/s or 60.8 Mgal/d. The 7-day, 10-year low flow is an index used to predict minimum water yield during dry periods.

## Surface Water

Municipal surface-water withdrawals and storage for the major surface-water bodies in the basin are listed in table 2. Total municipal surface-water withdrawal in 1990 was 1.51 Mgal/d (New Hampshire Department of Environmental Services, Water Resources Division, written commun., 1991). An additional 0.63 Mgal/d was withdrawn for industrial use, resulting in a total surface-water withdrawal of about 2.2 Mgal/d or 3.4 ft<sup>3</sup>/s from the



Table 2.--Municipal surface-water withdrawals by towns in the Contoocook River basin

[Data from the New Hampshire Department of Environmental Services, Water Supply and Pollution Control Division and Water Resources Division; Mgal/d, million gallons per day; --, no data]

| Town         | Surface-water body | Average daily withdrawals in 1,000 Mgal/d | Area in acres | Volume of surface-water body Mgal/d |
|--------------|--------------------|---|---------------|-------------------------------------|
| Andover      | Bradley Lake       | 0.077                                     | 169.4         | --                                  |
| Antrim       | Campbell Pond      | .000                                      | 17.3          | 39.0                                |
| Boscawen     | Walker Pond        | .314                                      | 190.5         | --                                  |
| Concord      | Contoocook River   | .011                                      | --            | --                                  |
| Hancock      | Juggernaut Pond    | .056                                      | 17.4          | 35.0                                |
| Hillsborough | Loon Lake          | .478                                      | --            | 155.8                               |
| Hopkinton    | Bear Pond          | .111                                      | 49.0          | --                                  |
| Jaffrey      | Bullet Pond        | .125                                      | 40.0          | 83.0                                |
| Jaffrey      | Poole Reservoir    | .101                                      | 3.0           | 6.7                                 |
| New London   | Morgan Pond        | .189                                      | 25.0          | 4.5                                 |
| Peterborough | Cunningham Pond    | .000                                      | 3.0           | 66.0                                |
| Warner       | Silver Lake        | .050                                      | 4.0           | --                                  |

entire basin. The location of major surface-water resources is shown in figure 6.

### Ground Water

Base flow constitutes 65 percent of streamflow in the Contoocook River basin as determined by use of local minima hydrograph-separation techniques and streamflow data from 1930-77 for the Contoocook River at Penacook (station 01088000). Average annual ground-water discharge is 806 ft<sup>3</sup>/s (521 Mgal/d) or 65 percent of the total average annual streamflow (1,240 ft<sup>3</sup>/s). Reported ground-water withdrawals from major municipal users (New Hampshire Department of Environmental Services, Water Resources Division, 1991) is only a small part of the available ground-water recharge (table 3). The locations of the principal water-supply wells are shown in figure 6.

Stratified-drift aquifers supply most (97 percent) of the municipal ground-water withdrawals in the Contoocook River basin, more than 2.31 ft<sup>3</sup>/s or 1.49 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991). Reported withdrawals from

stratified-drift municipal-supply wells are given in table 4. Reported yields from stratified-drift aquifers exceed 500 gal/min at seven wells in the basin. Wells with yields that exceed 500 gal/min are typically in the Contoocook River valley. The distribution of well yields in the basin shows that most wells yield between 10 and 50 gal/min (fig. 7).

### GEOHYDROLOGY OF STRATIFIED-DRIFT AQUIFERS

In New England, streamflow duration is affected by the relative proportion of stratified drift within the drainage area (Thomas, 1966); the greater the percentage of stratified drift, the greater the sustained low flows. Because of the importance of stratified-drift aquifers as regional sources of water, a discussion of their characteristics follows.

Geohydrology of stratified-drift aquifers was described by (1) mapping aquifer boundaries, defining aquifer thickness, and estimating transmissivity, and (2) compiling water-level data to show generalized directions of horizontal ground-water flow. Sources of data used in the investigation include

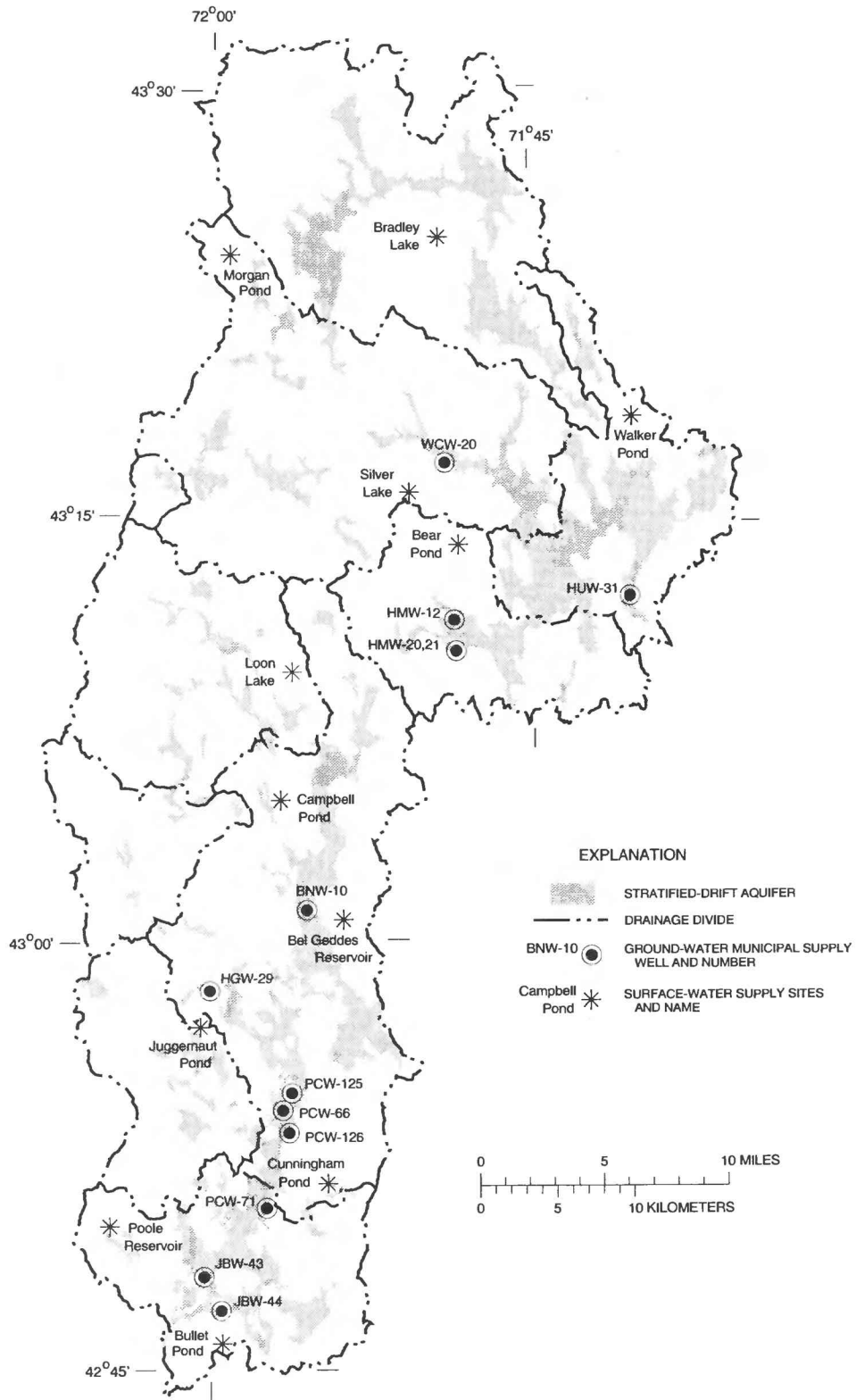


Figure 6.--Location of primary municipal surface- and ground-water supplies.

Table 3. --Municipal ground-water withdrawals from stratified-drift aquifers by towns in the Contoocook River basin

[Mgal/d, million gallons per day; gal/min, gallons per minute; GP, gravel packed; --, no data available; Modified from New Hampshire Water Supply and Pollution Control Commission (1983)]

| Town         | Well number | Local well name | Average daily withdrawals in Mgal/d | Pumping rate gal/min, per well <sup>1</sup> |
|--------------|-------------|-----------------|-------------------------------------|---|
| Bennington   | BNW-10      | GP 1            | <sup>2</sup> 0.242                  | 875   |
| Hancock      | HGW-29      | --              | --                                  | --  |
| Henniker     | HMW-20      | GP 1            | <sup>2</sup> .120                   | --  |
| Henniker     | HMW-21      | GP 2            | .120                                | --  |
| Henniker     | HMW-12      | Foster well     | .000                                | 326   |
| Hopkinton    | HUW-31      | Briar Hill      | <sup>2</sup> .031                   | 134   |
| Jaffrey      | JBW-43      | GP East Main    | <sup>2</sup> .290                   | 410   |
| Jaffrey      | JBW-44      | GP Control      | .079                                | 350   |
| Peterborough | PCW-66      | GP North        | <sup>2</sup> .278                   | 520   |
| Peterborough | PCW-71      | GP South        | .000                                | --  |
| Peterborough | PCW-126     | GP Summer       | .185                                | 350   |
| Peterborough | PCW-125     | GP Tarbell      | .000                                | --  |
| Warner       | WCW-20      | GP 1            | .000                                | --  |

<sup>1</sup> Unpublished data on file at the Bow, N.H. office of the U.S. Geological Survey.

<sup>2</sup> Data from Water Resources Division, New Hampshire Department of Environmental Services, written commun., 1991.

soils maps, surficial geologic maps, records of wells and test borings, seismic-refraction profiles, and streamflow records. The study area is subdivided into two parts on plates 1-4 at a scale of 1:48,000 (fig. 2). Boundaries of the plates were chosen to avoid subdividing the aquifers. The northern part contains the Blackwater, Warner, Main Stem North-Central and Main Stem North subbasins (pls. 1 and 3). The southern part contains the Beards Brook, North Branch, Main Stem South-Central, Nubanusit, and Main Stem South subbasins (pls. 2 and 4). Aquifer boundaries, data-collection locations, and water-table contours are shown on plates 1 and 2. Saturated thickness and transmissivity are shown on plates 3 and 4.

Most of the stratified-drift aquifers in the Contoocook River basin are unconfined. Some aquifers are locally confined. Confined aquifers consist of basal coarse-grained deposits in river valleys in the

towns of Antrim and Hopkinton along the Contoocook River valley.

### Areal Extent

Locations of the lateral boundaries of an aquifer were defined as the contact between stratified drift and till or bedrock valley walls. Location of the contact was determined by use of surficial geologic maps, well logs, information on soils maps, and mapping of aquifer boundaries. The bottom boundaries of stratified-drift aquifers are to the upper surface of till or bedrock determined from surface geophysics, test borings, or well records.

The Contoocook River basin is underlain by 121 mi<sup>2</sup> of stratified drift--an area equal to approximately 16 percent of the basin. The areal extent is shown in plates 1 and 2. Most of these deposits are



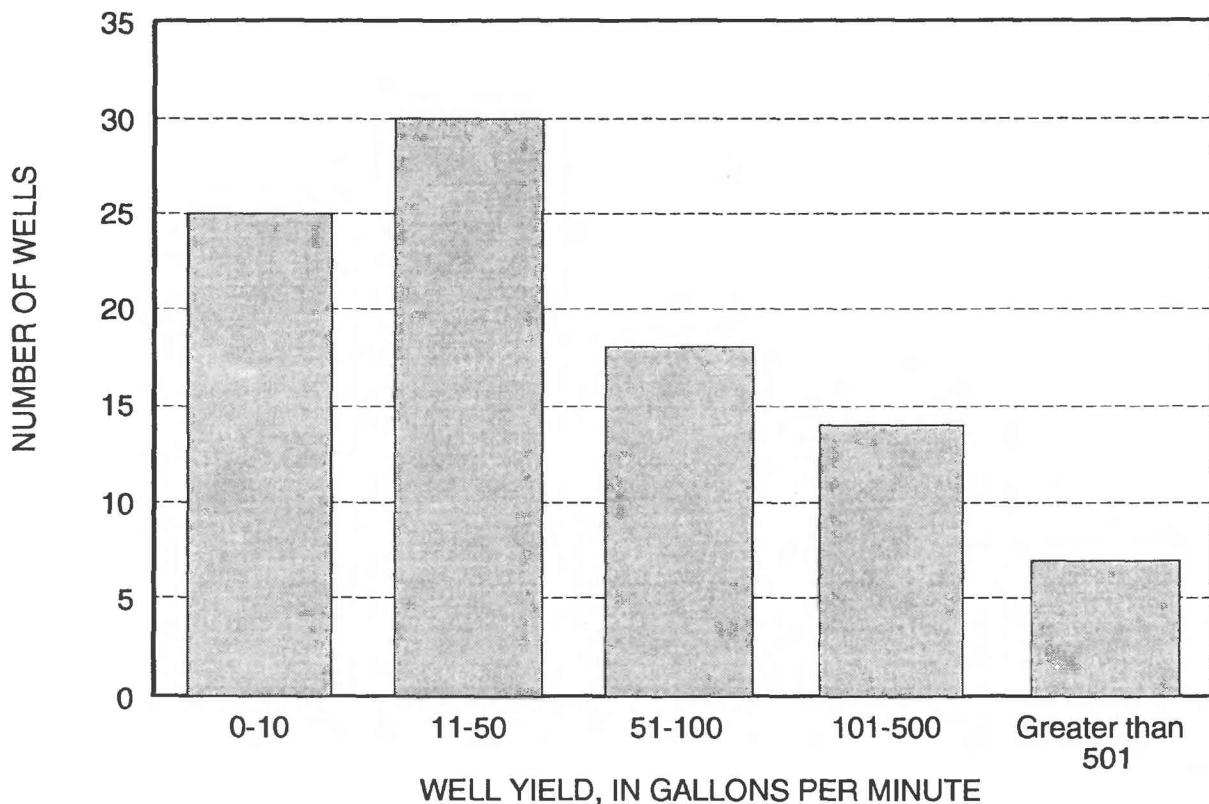


Figure 7.--Distribution of well yields from stratified-drift aquifers in the Contoocook River basin.

along the main stem of the Contoocook River. Because of the regional scale of the investigation, aquifer boundaries are approximate. Site-specific investigations may require more accurate delineation of aquifer boundaries than those presented on plates 1 and 2.

### Saturated Thickness

Saturated thickness of an unconfined stratified-drift aquifer is the vertical distance between the water table and the bottom of the aquifer. Saturated thickness of a confined stratified-drift aquifer is the vertical distance between the overlying and underlying confining units. In unconfined aquifers, the upper aquifer boundary (the water table) is dynamic and typically fluctuates within 7 ft. The lower aquifer boundary (the aquifer bottom) is the contact between the aquifer and till or bedrock. In some places, the aquifer bottom is the contact between coarse-grained deposits and the underlying silts and clays; however, the exact thickness of underlying fine-grained deposits is not always known, so that the thickness contours shown on plates 3 and 4 include underlying silts and clays. Saturated-thick-

ness contours (pls. 3 and 4) were drawn from well-log data (Appendixes A and B) and seismic-refraction survey profiles (Appendix E1-E17).

Saturated thickness of the stratified drift ranges from 0 to approximately 230 ft. Stratified drift is thickest in Hancock next to Norway Pond but is also thick along the main stem of the Contoocook River in Deering and in Henniker (pls. 3 and 4). Saturated thickness exceeds 120 ft in the following locations: (1) Greenfield; (2) Andover, along the Blackwater River by Horseshoe Pond; (3) Warner, along the Warner River by Tom Pond; and (4) Sutton, along the headwaters to Cascade Brook (a tributary to the Blackwater River). In general, maximum saturated thickness is found in deep, narrow, erosional bedrock channels. Saturated thickness is generally less than 40 ft in deposits at elevations above 850 ft above sea level.

### Ground-Water Recharge and Discharge

Sources of ground-water recharge to stratified-drift aquifers include infiltration of precipitation, lateral inflow at the aquifer boundary from till-covered and bedrock upland areas, runoff from un-

channeled upland areas, and streamflow losses to the aquifer. Return flows from septic fields contribute minor amounts of ground-water recharge. Effective ground-water recharge--the component of ground-water recharge available for water supply and management--incorporates the effects of ground-water evapotranspiration and water loss (consumptive water use). Effective ground-water recharge equals ground-water discharge to streams.

Recharge from infiltration of precipitation falling onto stratified-drift aquifers may be a significant part of the total ground-water recharge to the basin even though till and bedrock cover 83 percent of the total land area. Studies of glaciated terrains in the northeast have found that the recharge of ground-water in stratified-drift aquifers is approximately one-half of the annual precipitation (MacNish and Randall, 1982). Precipitation falling directly on exposed sand or gravel can infiltrate and percolate to the water table with little runoff or evapotranspiration (Mazzaferro and others, 1979). The maximum potential average annual recharge from infiltration of direct precipitation onto the aquifer is 121 Mgal/d; if one-half of the average annual precipitation falling on stratified-drift deposits is assumed to recharge ground water. The average annual precipitation was determined from precipitation data (1930-77) at a weather station in Concord, N.H. (National Oceanic and Atmospheric Administration, written commun., 1989). If the maximum potential average annual recharge rate is achieved, approximately 23 percent of the average annual available ground-water discharge to the basin (521 Mgal/d) may come from the stratified drift.

Stratified-drift aquifers also receive recharge from adjacent till and bedrock uplands. Recharge from uplands varies during the year and depends on the distribution of precipitation and snowmelt runoff. Runoff from upland areas not drained by perennial streams may recharge the stratified-drift aquifer by lateral flow at the contact with till or bedrock. Streams that originate in uplands can lose water through seepage as they flow from the uplands onto permeable stratified-drift deposits in the valley.

The effective recharge from lateral flow of adjacent till and bedrock uplands to stratified-drift aquifers may contribute as much as an additional 10 in/yr along the boundary of stratified-drift aquifers. The effective recharge was determined by use of a local-minima hydrograph-separation technique (Pettyjohn and Henning, 1979) on streamflow data from water year 1988 for Stony Brook (station 01093800) near Temple, N.H. Stony Brook drains a small upland basin of till and bedrock. This

recharge rate may be typical of adjacent upland areas of till and bedrock to stratified-drift aquifers in the Contoocook River basin because of similarities in physiography. Runoff was in the normal range for water year 1988 (Blackey and others, 1989).

Recharge to sand and gravel aquifers from streams that lose water to the aquifer through permeable streambeds was documented by Randall (1978) in New York, by Morrissey and others (1989) in New Hampshire and Pennsylvania, and by Harte and Mack (1992) in New Hampshire. Recharge can occur from upland-draining tributary streams entering stratified-drift aquifers at the contact between adjacent upland areas of till-bedrock river valleys and stratified-drift aquifers. Rates of recharge of  $2.0 \times 10^{-3}$  ft<sup>3</sup>/s per foot of stream length were detected by Harte and Mack (1992) in their study of a stratified-drift river-valley aquifer in Milford, N.H. Streamflow loss was observed along Ferguson Brook in Hancock (pl. 2) and along the main stem of the Contoocook River in Henniker (pl. 1).

Ground-water discharge from the aquifer primarily includes, but is not limited to, seepage into streams, lakes, wetlands, and springs; evapotranspiration; and pumpage from wells. During periods of low streamflow, generally in late summer and early fall after several days without rainfall, streamflow consists primarily of ground-water discharge. Streamflow measurements were made throughout the study area (pls. 1 and 2) during base flow on June 9, 1989, and during September 29-October 3, 1988 (table 4). These measurements were used to estimate the distribution of effective recharge in the basin on the basis of the assumption that ground-water discharge equals the effective ground-water recharge.

## Ground-Water Flow and Water-Level Fluctuations

Generalized horizontal and vertical directions of flow in an idealized stratified-drift, river-valley aquifer are shown in figure 8. Ground water that recharges the aquifer generally moves from an aquifer boundary or ground-water divide and discharges as streamflow. Water that enters the aquifer farther from its point of discharge follows a deeper path through the aquifer than water that enters near a discharge point (fig. 8). Ground-water withdrawals can alter directions of natural flow in a valley-fill aquifer.

Table 4.--Low-flow data from streamflow-measurement sites in the Contoocook River basin

[mi<sup>2</sup>, square mile; ft<sup>3</sup>/s, cubic foot per second; mi, mile; ft, foot; --, no data]

| Stream                   | Tributary to     | Drainage area (mi <sup>2</sup> ) | Station <sup>1</sup> | Measurements |                                |                                      |
|--------------------------|------------------|----------------------------------|----------------------|--------------|--------------------------------|--------------------------------------|
|                          |                  |                                  |                      | Date         | Discharge (ft <sup>3</sup> /s) | Flow duration <sup>2</sup> (percent) |
| Main Stem South Subbasin |                  |                                  |                      |              |                                |                                      |
| Contoocook River         | --               | --                               | JAF-1                | 06-09-88     | 12.0                           | --                                   |
|                          |                  |                                  |                      | 09-29-88     | 4.2                            | --                                   |
| Gridley River            | Contoocook River | --                               | JAF-2                | 09-29-88     | 2.1                            | --                                   |
| Town Line Brook          | Contoocook River | --                               | JAF-3                | 09-29-88     | 1.8                            | --                                   |
| Contoocook River         | --               | --                               | JAF-5N               | 06-09-88     | 3.0                            | --                                   |
| Figler Brook             | Contoocook River | --                               | JAF-6N               | 06-09-88     | .77                            | --                                   |
| Mountain Brook           | Contoocook River | --                               | JAF-7N               | 06-09-88     | .2                             | --                                   |
| Mountain Brook           | Contoocook River | --                               | JAF-8N               | 06-09-88     | 2.5                            | --                                   |
| Town Line Brook          | Contoocook River | --                               | PET-1N               | 06-09-88     | 1.81                           | --                                   |
| Town Line Brook          | Contoocook River | --                               | PET-2N               | 06-09-88     | .64                            | --                                   |
| Town Line Brook          | Contoocook River | --                               | Sha-3N               | 06-09-88     | 5.2                            | --                                   |
| Farm Brook               | Contoocook River | 68.1                             | 01082000             | 06-09-88     | 21.0                           | 90                                   |
| Farm Brook               | Contoocook River | 68.1                             | 01082000             | 09-29-88     | 19.1                           | 92                                   |
| Nubanusit Subbasin       |                  |                                  |                      |              |                                |                                      |
| Stanley Brook            | Nubanusit River  | --                               | NUB-3                | 09-29-88     | 1.6                            | --                                   |
| Stanley Brook            | Nubanusit River  | --                               | NUB-2                | 09-29-88     | 5.7                            | --                                   |
| Nubanusit River          | Contoocook River | --                               | NUB-1                | 09-29-88     | 35.7                           | --                                   |
| Nubanusit River          | Contoocook River | 46.9                             | 01083000             | 09-29-88     | 42.0                           | 82                                   |

Table 4.--Low-flow data from streamflow-measurement sites in the Contoocook River basin--Continued

| Stream                           | Tributary to     | Drainage area (mi <sup>2</sup> ) | Station <sup>1</sup> | Measurements |                                |                                      |
|----------------------------------|------------------|----------------------------------|----------------------|--------------|--------------------------------|--------------------------------------|
|                                  |                  |                                  |                      | Date         | Discharge (ft <sup>3</sup> /s) | Flow duration <sup>2</sup> (percent) |
| North Branch Subbasin            |                  |                                  |                      |              |                                |                                      |
| North Branch River               | Contoocook River | 54.8                             | 01084000             | 09-29-88     | 28.9                           | 81                                   |
| Beards Brook Subbasin            |                  |                                  |                      |              |                                |                                      |
| Shedd Brook                      | Beards Brook     | --                               | BB/NB-2              | 09-29-88     | 8.0                            | --                                   |
| Beards Brook                     | Contoocook River | --                               | BB/NB-1E             | 09-29-88     | 1.7                            | --                                   |
| Unnamed Brook                    | Beards Brook     | --                               | BB/NB-1D             | 09-29-88     | .1                             | --                                   |
| Unnamed Brook                    | Beards Brook     | --                               | BB/NB-1B             | 09-29-88     | .23                            | --                                   |
| Beards Brook                     | Contoocook River | --                               | BB/NB-1A             | 09-28-88     | 4.3                            | --                                   |
| Beards Brook                     | Contoocook River | 55.4                             | 01084500             | 09-29-88     | 12.6                           | 77                                   |
| Main Stem South-Central Subbasin |                  |                                  |                      |              |                                |                                      |
| Otter Brook                      | Contoocook River | --                               | PET-2B               | 09-29-88     | 0.05                           | --                                   |
| Unnamed Brook                    | Otter Brook      | --                               | PET-2C               | 09-29-88     | .07                            | --                                   |
| Otter Brook                      | Contoocook River | --                               | PET-2A               | 09-29-88     | 2.1                            | --                                   |
| Hosley Brook                     | Ferguson Brook   | --                               | PET-1B               | 09-29-88     | .2                             | --                                   |
| Unnamed Brook                    | Ferguson Brook   | --                               | PET-1C               | 09-29-88     | .37                            | --                                   |
| Ferguson Brook                   | Contoocook River | --                               | PET-1A               | 09-29-88     | .32                            | --                                   |
| Sand Brook                       | Contoocook River | --                               | PET-5D               | 09-29-88     | .26                            | --                                   |
| Unnamed Brook                    | Sand Brook       | --                               | PET-5E               | 09-29-88     | .012                           | --                                   |
| Unnamed Brook                    | Sand Brook       | --                               | PET-5C               | 09-29-88     | .01                            | --                                   |
| Unnamed Brook                    | Sand Brook       | --                               | PET-5B               | 09-29-88     | .08                            | --                                   |
| Sand Brook                       | Contoocook River | --                               | PET-5A               | 09-29-88     | 1.7                            | --                                   |

Table 4.--Low-flow data from streamflow-measurement sites in the Contoocook River basin--Continued

| Stream                                      | Tributary to      | Drainage area (mi <sup>2</sup> ) | Station <sup>1</sup> | Measurements |                                |                                      |
|---|-------------------|----------------------------------|----------------------|--------------|--------------------------------|--------------------------------------|
|   |                   |                                  |                      | Date         | Discharge (ft <sup>3</sup> /s) | Flow duration <sup>2</sup> (percent) |
| Main Stem South-Central Subbasin--Continued |                   |                                  |                      |              |                                |                                      |
| Contoocook River                            | --                | 368                              | 01085000             | 09-29-88     | 106                            | 87                                   |
| Main Stem North-Central Subbasin            |                   |                                  |                      |              |                                |                                      |
| Contoocook River                            | --                | 427                              | 01085500             | 09-29-88     | 91                             | 90                                   |
| Box Corner Subbasin                         |                   |                                  |                      |              |                                |                                      |
| West Branch River                           | Warner River      | --                               | WAR-5C               | 09-29-88     | 0.05                           | --                                   |
| Unnamed Brook                               | West Branch River | --                               | WAR-5B               | 09-29-88     | .02                            | --                                   |
| West Branch River                           | Warner River      | 5.75                             | 01085800             | 09-29-88     | .73                            | 86                                   |
| Warner Subbasin                             |                   |                                  |                      |              |                                |                                      |
| Unnamed Brook                               | West Branch River | --                               | WAR-2B               | 09-29-88     | 0.06                           | --                                   |
| West Branch River                           | Warner River      | --                               | WAR-2A               | 09-29-88     | 1.73                           | --                                   |
| Andrew Brook                                | Warner River      | --                               | WAR-1C               | 09-29-88     | .73                            | --                                   |
| Morse Brook                                 | Andrew Brook      | --                               | WAR-1B               | 09-29-88     | .05                            | --                                   |
| Ring Brook                                  | Andrew Brook      | --                               | WAR-1D               | 09-29-88     | .55                            | --                                   |
| Andrew Brook                                | Warner River      | --                               | WAR-1A               | 09-29-88     | 2.33                           | --                                   |
| Kings Brook                                 | Lane River        | --                               | WAR-4B               | 09-29-88     | .12                            | --                                   |
| Unnamed Brook                               | Lane River        | --                               | WAR-4C               | 09-29-88     | 1.21                           | --                                   |
| Thistle Brook                               | Lane River        | --                               | WAR-4D               | 09-29-88     | .04                            | --                                   |
| Lane River                                  | Warner River      | --                               | WAR-4A               | 09-29-88     | 1.22                           | --                                   |
| Stevens Brook                               | Warner River      | --                               | WAR-3                | 09-29-88     | 1.01                           | --                                   |

Table 4.--Low-flow data from streamflow-measurement sites in the Contoocook River basin--Continued

| Stream                     | Tributary to     | Drainage area (mi <sup>2</sup> ) | Station <sup>1</sup> | Measurements |                                | Flow duration <sup>2</sup> (percent) |
|----------------------------|------------------|----------------------------------|----------------------|--------------|--------------------------------|--------------------------------------|
|                            |                  |                                  |                      | Date         | Discharge (ft <sup>3</sup> /s) |                                      |
| Warner Subbasin--Continued |                  |                                  |                      |              |                                |                                      |
| Warner River               | Contoocook River | 146                              | 01086000             | 09-29-88     | 30.8                           | 92                                   |
| Blackwater Subbasin        |                  |                                  |                      |              |                                |                                      |
| Blackwater River           | Contoocook River | --                               | BLK-2A               | 10-02-88     | 7.7                            | --                                   |
| Blackwater River           | Contoocook River | --                               | BLK-3K               | 09-30-88     | 10.2                           | --                                   |
| Ragged Mountain Brook      | Blackwater River | --                               | BLK-3J               | 10-02-88     | .06                            | --                                   |
| Hameshop Brook             | Blackwater River | --                               | BLK-3L               | 10-02-88     | .22                            | --                                   |
| Blackwater River           | Contoocook River | --                               | BLK-3M               | 10-03-88     | 12.2                           | --                                   |
| Mountain Brook             | Blackwater River | --                               | BLK-3F               | 10-03-88     | 1.12                           | --                                   |
| Blackwater River           | Contoocook River | --                               | BLK-3A               | 10-03-88     | 17.8                           | --                                   |
| Blackwater River           | Contoocook River | 129                              | 01087000             | 09-29-88     | 33.0                           | 96                                   |
| Main Stem North Subbasin   |                  |                                  |                      |              |                                |                                      |
| Blackwater River           | Contoocook River | --                               | PEN-2A               | 09-30-88     | 31.4                           | --                                   |
| Deer Meadow Brook          | Contoocook River | --                               | DEER-MEA             | 10-03-88     | 1.7                            | --                                   |
| Dolf Brook                 | Contoocook River | --                               | Dolf Brook           | 10-03-88     | .01                            | --                                   |
| Contoocook River           | --               | 766                              | 01088000             | --           | <sup>3</sup> 195               | <sup>3</sup> 90                      |

<sup>1</sup> See location on plate 1 or 2.

<sup>2</sup> Percentage of time that the listed discharge is equaled or exceeded.

<sup>3</sup> Estimated from streamflow duration curve assuming streamflow duration similar to streamflow duration at gaging station 01085500.

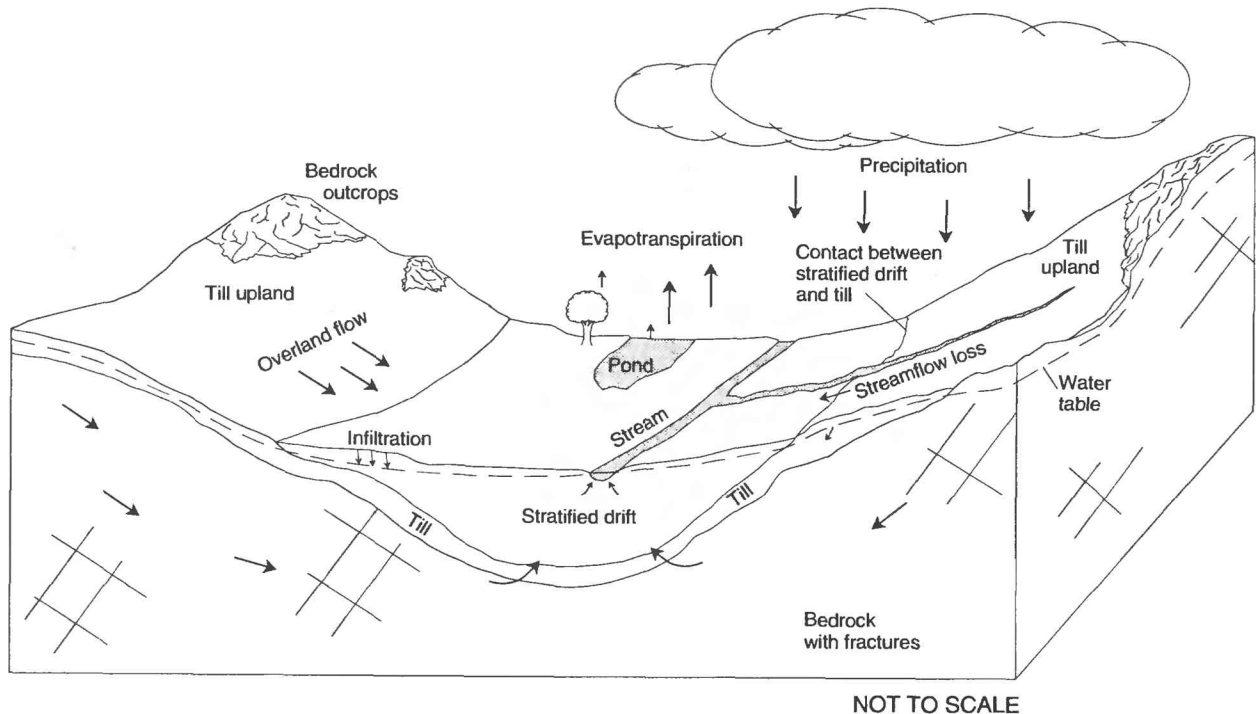


Figure 8.--Generalized hydrologic cycle and ground-water-flow patterns in a typical stratified-drift, river-valley aquifer (Modified from Morrissey, 1989, fig. 2).

Generalized water-table altitudes and directions of ground-water flow for selected aquifers are shown on plates 1-2. In general, regional flow follows the direction of streamflow and natural drainage. Plates 1 and 2 were constructed from water levels measured during summer and fall 1989 in wells drilled for this investigation and from water levels measured at various times in other wells (data from well logs filed at the New Hampshire Department of Environmental Services; Cotton, 1977; and from other miscellaneous measurements). The water-table contours are considered to be generalized because (1) ground-water-level data for constructing the maps were collected at different times, (2) ground-water-level data were augmented with altitudes of surface water from USGS topographic maps, and (3) ground-water levels were measured in wells screened at various intervals within the stratified drift; therefore, water levels may not represent the true altitude of the water table but, rather, a potentiometric surface that is affected by the three-dimensional nature of the ground-water-flow system. Ground-water levels may also be locally affected by confined conditions. For these reasons, a 20-ft contour interval was used.

Fluctuations in ground-water levels in the stratified-drift aquifers result from changes in

ground-water storage. In general, ground-water levels increase during the spring when recharge exceeds discharge (fig. 9). In contrast, ground-water levels decrease during the summer and fall when discharge exceeds recharge.

Water-levels generally fluctuate less than 7 ft in the stratified drift. For example, annual fluctuations in the ground-water-level hydrographs (fig. 9) for well NLW-1, which taps till deposits in New London, are about 5 ft during 1947-90. Fluctuations are 2 to 4 ft during 1965-90 for well WCW-1, which taps stratified-drift deposits in Warner. These fluctuations are similar to those observed by Cotton (U.S. Geological Survey, written commun., 1991), Toppin (1987), and Moore and others (1994).

Ground-water levels measured from 1987 through 1990 are near normal levels except during spring 1989. Water levels measured during spring 1989 were at or below previously observed minimum water levels (fig. 9).

### Hydraulic Characteristics

Estimates of hydraulic conductivity from the 454 stratified-drift samples collected throughout southern N.H. were statistically analyzed, and the

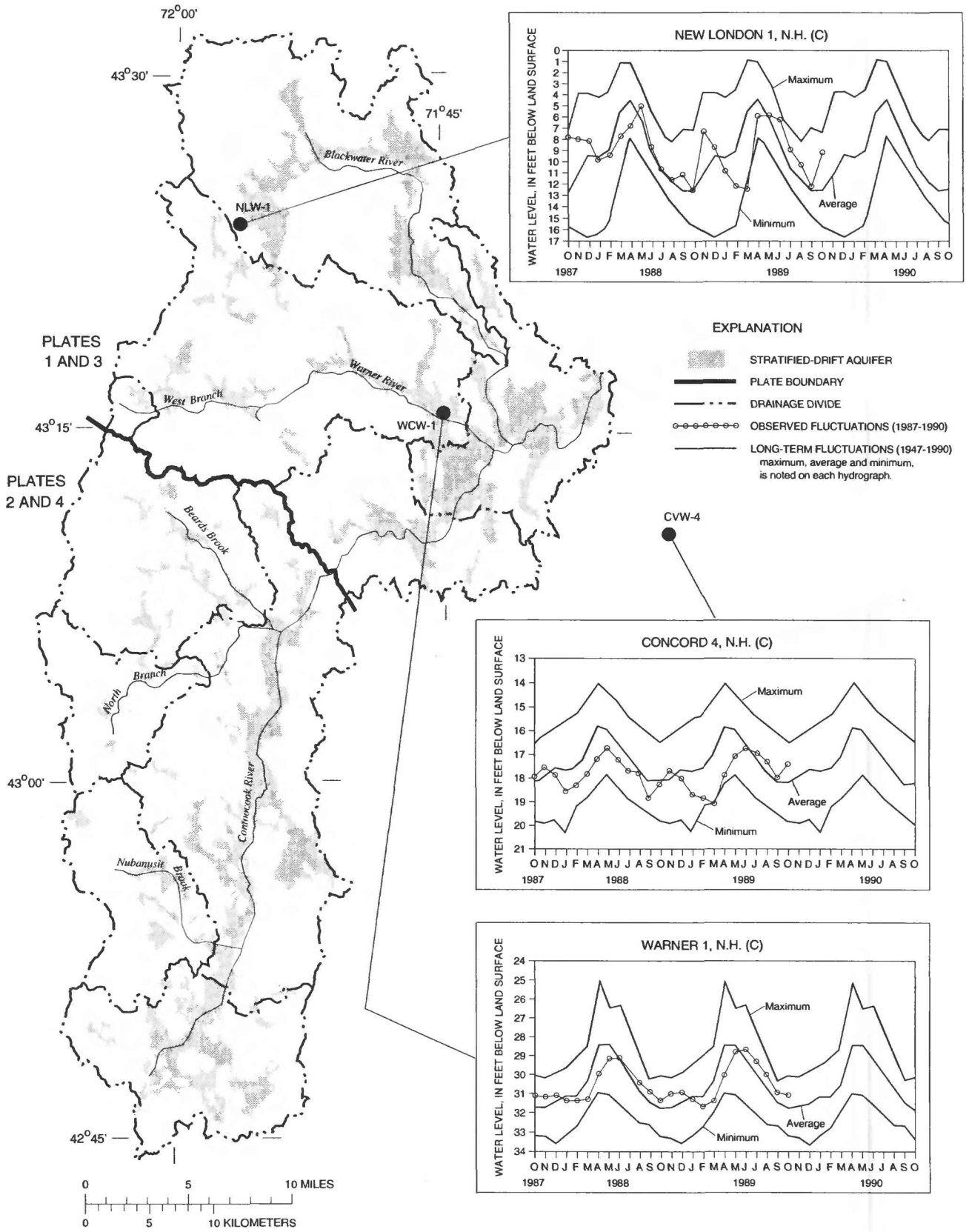


Figure 9.--Hydrographs of ground-water levels at wells WCW-1 in Warner, NLW-1 in New London, and CVW-4 in Concord.



results are given in table 5 (See "Approach and Methods," p. 2). The data were divided into three categories--well sorted, medium sorted, and poorly sorted--on the basis of the inclusive graphic standard deviation (Folk, 1974, p. 46). "Well sorted, medium sorted, and poorly sorted" are relative terms used here specifically in characterizing New Hampshire glaciofluvial sands and gravels. A sample with a standard deviation less than 1.25 phi units is considered to be well sorted for New Hampshire glaciofluvial sands and gravels. A sample with a standard deviation of 1.25 to 1.75 phi units is medium sorted, and a sample with a standard deviation greater than 1.75 is poorly sorted. Regression analyses were done separately for each of these three categories, where median grain size was the independent variable and estimated hydraulic conductivity was the dependent variable (Moore and others, 1994).

Aquifer transmissivity was calculated primarily by assigning values of hydraulic conductivity to lithologic-log descriptions by use of the relation established in table 5. Hydraulic conductivities assigned from grain sizes were summed over the saturated thickness of the aquifer to obtain reported transmissivities (pls. 3 and 4). These data were used to construct the transmissivity maps shown on plates 3 and 4. Transmissivity can differ significantly over short distances (pls. 3 and 4) because of the heterogeneous nature of stratified-drift aquifers. Therefore, the values shown on plates 3 and 4 are approximated and represent a bulk average. In addition, hydraulic conductivity has directional properties that are not accounted for by assigning hydraulic conductivity from grain sizes.

Bulk transmissivities for depositional units within in the Contoocook River basin range from less than 500 ft<sup>2</sup>/d to more than 10,000 ft<sup>2</sup>/d (pls. 3 and 4). High-transmissivity (greater than 4,000 ft<sup>2</sup>/d) aquifers are associated with deltaic ice-contact deposits and eskers (pls. 3 and 4). High-transmissivity aquifers are not areally extensive. Low-transmissivity (less than 4,000 ft<sup>2</sup>/d) aquifers are associated with glaciolacustrine deposits throughout much of the northern Contoocook River valley (pl. 4).

Transmissivities estimated from aquifer tests are summarized by subbasin in table 6. Values from table 6 were reported from a variety of sources and determined by use of a variety of analytical methods (Bentall, 1963; McClymonds and Franke, 1972; Theis, 1935; and Jacob, 1940). Some bias of values, either high or low, may have been introduced because of testing procedures (for example, water-

level response to slug tests on small diameter wells may have resulted in low hydraulic-conductivity estimates). Some transmissivities from aquifer tests may not represent the true intrinsic permeability of the aquifer because of inducement of surface-water infiltration, which would exaggerate estimated transmissivities.

Transmissivity data estimated from aquifer tests (table 6) were used to evaluate the validity of assigning hydraulic conductivities to grain-size descriptions for specific depositional units (table 5) at sites with both lithologic description and hydraulic tests. In general, transmissivity estimates from grain-size analysis for specific depositional units have a smaller variance than the transmissivity estimates from aquifer tests, but the different methods give comparable values. A similar conclusion was reached by Harte and Mack (1992).

Transmissivity (reported from aquifer tests) ranges from less than 10 to 64,000 ft<sup>2</sup>/d within the study area (table 6). Transmissivity estimated from aquifer tests of 41 wells ranged from less than 1,000 ft<sup>2</sup>/d at 8 wells to more than 10,000 ft<sup>2</sup>/d at 10 wells; transmissivity in 23 wells ranged from 1,000 to 10,000 ft<sup>2</sup>/d. Transmissivity is highest in aquifers along the upper and central reaches of the Contoocook River valley in the Main Stem South-Central subbasin (figs. 2 and 3). Areas of a high transmissivity are associated with depositional units deposited in high energy glaciofluvial and glaciolacustrine environments. Most high transmissivity areas are deltas or eskers. The areal distribution of transmissivity reported from aquifer tests generally agree with transmissivities from grain-size analyses shown in plates 3 and 4.

A storage coefficient value of 0.2 is commonly used for specific yield for stratified-drift aquifers in New England (Moore and others, 1994) and for unconsolidated deposits in other areas (Freeze and Cherry, 1979). Laboratory determination of specific yield for 13 lithologic samples from southern New Hampshire ranged from 0.14 to 0.34 and averaged 0.26 (Weigle and Kranes, 1966).

Water released from storage in confined aquifers results from expansion of water and from compression of the aquifer as hydraulic head declines. Storage coefficients for confined aquifers are significantly smaller than specific yields because water is largely derived from expansion and aquifer compression and not gravity drainage; storage coefficients range from 0.00005 to 0.005. Most references on aquifer tests in the study area did not contain sufficient data for calculation of storage coefficients and, therefore, storage coefficients are not reported.

Table 5.--Relation of mean horizontal hydraulic conductivity to median grain size and degree of sorting of aquifer material  
 [<, less than; >, greater than; --, no data]

| Median grain size (phi units) | Mean hydraulic conductivity (k), in feet per day, for given degree of sorting |   |                               |                               |                               |
|-------------------------------|---|---|-------------------------------|-------------------------------|-------------------------------|
|                               | Well sorted   |   | Moderately sorted             |                               | Poorly sorted                 |
|                               | Standard deviation < 1.25 phi   | Standard deviation 1.25 phi to 1.75 phi | Standard deviation > 1.75 phi | Standard deviation > 1.75 phi | Standard deviation > 1.75 phi |
| -1.75                         | Granules  | --                                      | 320                           | 49                            |                               |
| -1.25                         | Granules  | --                                      | 200                           | 35                            |                               |
| -.75                          | Very coarse sand  | 970                                     | 120                           | 25                            |                               |
| -.25                          | Very coarse sand  | 470                                     | 78                            | 18                            |                               |
| .25                           | Coarse sand   | 220                                     | 48                            | 13                            |                               |
| .75                           | Coarse sand   | 110                                     | 30                            | 9                             |                               |
| 1.25                          | Medium sand   | 51                                      | 19                            | 7                             |                               |
| 1.75                          | Medium sand   | 25                                      | 12                            | 5                             |                               |
| 2.25                          | Fine sand   | 12                                      | 7                             | 3                             |                               |
| 2.75                          | Fine sand   | 6                                       | 4                             | 2                             |                               |
| 3.25                          | Very fine sand  | 3                                       | 3                             | --                            |                               |
| 3.75                          | Very fine sand  | 2                                       | 2                             | --                            |                               |

Table 6.--Transmissivity estimates from reported hydraulic tests and reported transmissivities from grain-size analyses in the Contoocook River basin

[ft<sup>2</sup>/d, foot squared per day; --, no data]

| Subbasin                   | Well    | Town         | Transmissivity<br>(ft <sup>2</sup> /d) | Method<br>code <sup>a</sup> | Source<br>of<br>information <sup>b</sup> |
|----------------------------|---------|--------------|--|-----------------------------|--|
| Main Stem South            | JBW-43  | Jaffrey      | 2,300                                  | 3                           | 1  |
|                            | JBW-32  | Jaffrey      | 180                                    | 6                           | 10                                       |
|                            | JBW-44  | Jaffrey      | 1,500                                  | 3                           | 1  |
|                            | JBW-46  | Jaffrey      | 2,900                                  | 3                           | 1  |
|                            | JBW-33  | Jaffrey      | 75                                     | 6                           | 3  |
|                            | JBW-34  | Jaffrey      | 4,500                                  | 6                           | 3  |
|                            | RGW-107 | Rindge       | 1,200                                  | 1                           | 1  |
|                            | PCW-71  | Peterborough | 7,300                                  | 4                           | 3  |
|                            | PCW-36  | Peterborough | <sup>c</sup> 10,800                    | 4,5                         | 4  |
|                            | PCW-38  | Peterborough | <sup>c</sup> 8,200                     | 4,5                         | 4  |
|                            | PCW-40  | Peterborough | <sup>c</sup> 9,200                     | 4,5                         | 4  |
|                            | PCW-42  | Peterborough | <sup>c</sup> 13,600                    | 4,5                         | 4  |
| Nubanusit                  | --      | --           | --                                     | --                          | --                                       |
| North Branch               | --      | --           | --                                     | --                          | --                                       |
| Beards Brook               | --      | --           | --                                     | --                          | --                                       |
| Main Stem<br>South-Central | HGW-29  | Hancock      | 8,600                                  | 1                           | 1  |
|                            | PCW-66  | Hancock      | 2,400                                  | 1                           | 2  |
|                            | PCW-57  | Hancock      | 47,500                                 | 1                           | 1  |
|                            | PCW-59  | Hancock      | 8,600                                  | 1                           | 1  |
|                            | PCW-50  | Hancock      | 8,900                                  | 1                           | 1  |
|                            | PCW-51  | Hancock      | 2,040-5,200                            | 1                           | 1  |
|                            | PCW-52  | Hancock      | 12,600                                 | 1                           | 1  |
|                            | PCW-53  | Hancock      | 6,200                                  | 1                           | 1  |
|                            | GSW-30  | Greenfield   | 5,100                                  | 1                           | 1  |
|                            | GSW-75  | Greenfield   | 1,800                                  | 1                           | 1  |
|                            | GSW-74  | Greenfield   | 19,000                                 | 1                           | 1  |
|                            | BNW-44  | Bennington   | 63,700                                 | 1                           | 1  |
|                            | BNW-10  | Antrim       | 29,000                                 | 1                           | 1  |
|                            | HOW-15  | Hillsborough | 31,000                                 | 1                           | 1  |
| Main Stem<br>North-Central | HMW-12  | Henniker     | 34,800                                 | 3                           | 11                                       |
|                            | HMW-20  | Henniker     | 6,800                                  | 1                           | 1  |

Table 6.--Transmissivity estimates from reported hydraulic tests and reported transmissivities from grain-size analyses in the Contoocook River basin--Continued

| Subbasin                     | Well    | Town       | Transmissivity<br>(ft <sup>2</sup> /d) | Method<br>code <sup>a</sup> | Source<br>of<br>information <sup>b</sup> |
|------------------------------|---------|------------|--|-----------------------------|--|
| Box Corner<br>(Upper Warner) | --      | --         | --                                     | --                          | --                                       |
| Warner                       | WCW-23  | Warner     | 23,500                                 | 1                           | 1  |
|                              | WCW-20  | Warner     | <sup>c</sup> 4,000                     | 2,4                         | 8  |
| Blackwater                   | NLW-22  | New London | 10                                     | 5                           | 9  |
|                              | NLW-23  | New London | 25                                     | 5                           | 9  |
|                              | NLW-25  | New London | 2                                      | 5                           | 9  |
| Main Stem North              | HUW-29  | Hopkinton  | 3,000                                  | 1                           | 1  |
|                              | HUW-31  | Hopkinton  | 26,000                                 | 1                           | 1  |
|                              | HUA-187 | Hopkinton  | 1,100                                  | 1                           | 1  |
|                              | CVW-162 | Concord    | 800                                    | 5                           | 7  |
|                              | CVW-160 | Concord    | 500                                    | 5                           | 7  |
|                              | CVW-161 | Concord    | 2,800                                  | 5                           | 7  |
|                              | CVW-46  | Concord    | 450                                    | 1                           | 1  |
|                              | WHW-49  | Webster    | 4,450                                  | 1                           | 1  |

<sup>a</sup> Method codes:

1. Single-well pump test--Theis, confined, unsteady state (Kruseman and deRidder, 1983, p. 51).
2. Multiple-well pump test--Jacob (Kruseman and deRidder, 1983, p.63).
3. Multiple-well pump test--Jacob (corrected for dewatering); (Kruseman and deRidder, 1983, p. 83).
4. Multiple-well pump test--Neuman (1974).
5. Single-well slug test--Kozeny (1933).
6. Grain-size analysis--Olney (1983).

<sup>b</sup>Source of information:

1. Drilling logs on file at U.S. Geological Survey office, Bow, N.H.
2. New Hampshire Department of Environmental Services (1985).
3. Normandeau Associates, written commun., 1984.
4. New Hampshire Water Supply and Pollution Control Commission (1985).
5. Emtex Incorporated (1989).
6. Anderson-Nichols and Co. (1979).
7. Goldberg-Zoino and Associates, Inc., written commun., 1986.
8. D.L. Maher Co., written commun., 1988.
9. Dubois and King Inc. (1986).
10. New Hampshire Water Supply and Pollution Control Commission, written commun., 1983.
11. D.L. Maher, written commun., 1979.

<sup>c</sup> Average estimate from two methods.

## Aquifer Descriptions, by Subbasin

Stratified-drift aquifers are discontinuous and distributed in valleys within each of the subbasins. Subbasins within the Contoocook River valley contain larger, less discontinuous, and more areally extensive aquifers than subbasins along the western flank of the study area.

The size of stratified-drift aquifers within each subbasin of the Contoocook River basin is summarized in table 7. Stratified-drift aquifers are most extensive in the Main Stem South-Central subbasin and Main Stem North subbasin. Most of the stratified-drift aquifers contain surficial coarse-grained deposits. Underlying fine-grained deposits are more extensive in the middle to lower reaches (to the north) of the Contoocook River valley.

Average hydraulic characteristics, ground-water storage, effective ground-water recharge, and water budgets for the major subbasins are given in table 8. Characteristics for the subbasins within the Contoocook River basin (summarized in table 8) represent average integrated properties of the stratified drift, till, and bedrock. These values are useful as an indices of the relative hydraulic properties of the basin and as a qualitative evaluation of hydraulic

properties of the stratified drift. The percentage of coarse-grained stratified-drift aquifers is the primary control of base flow within a drainage basin (Thomas, 1966).

A conceptual representation of ground-water systems in a subbasin is shown in figure 10. The large box represents the entire subbasin consisting of till, bedrock, and stratified drift. Stratified-drift aquifers are in low-lying, gently sloping terrain interspersed within steeply sloping terrain. Although precipitation is uniformly distributed throughout the subbasin, ground-water concentrates in the stratified-drift aquifers, which function as sinks. Therefore, during dry periods, when overland runoff to streams is absent and streamflow is composed entirely of ground-water runoff, streamflow is primarily controlled by the release of water from the stratified drift. The rate and amount of release is governed by the hydraulic characteristics of the stratified drift.

Average transmissivities were determined from hydraulic-diffusivity estimates of coincident base-flow recessions from December 27, 1969 (fig. 11), by use of methods outlined in Bevens (1986) and discussed in the section "Approach and Methods." Ground-water storage also was determined by use of methods outlined in Bevens (1986) and from base-

Table 7.--Number, size, and composition of stratified-drift aquifers in subbasins of the Contoocook River basin  
[mi<sup>2</sup>, square miles]

| Subbasin                 | Stratified-drift aquifers        |                               |                                 |                              |                    |   |  |
|--------------------------|----------------------------------|-------------------------------|---------------------------------|------------------------------|--------------------|---|--|
|                          | Drainage area (mi <sup>2</sup> ) | Total area (mi <sup>2</sup> ) | Maximum area (mi <sup>2</sup> ) | Mean area (mi <sup>2</sup> ) | Number of aquifers | Percentage of surficial coarse-grained deposits | Percentage of underlying fine-grained deposits |
| Main Stem South          | 68.1                             | 15.67                         | 13.99                           | 1.65                         | <sup>1</sup> 9.5   | 97.3  | 1.5  |
| Nubanusit                | 46.9                             | 3.96                          | 1.77                            | .72                          | <sup>1</sup> 5.5   | 100   | 0  |
| North Branch             | 54.8                             | 1.25                          | .33                             | .25                          | 5.0                | 100   | 0  |
| Beards Brook             | 55.4                             | 5.22                          | 1.11                            | .52                          | 10                 | 97  | 3.0  |
| Main Stem South-Central  | 142                              | 27.65                         | 16.32                           | 1.26                         | 22                 | 96.5  | 16.5   |
| Main Stem North-Central  | 59                               | 8.0                           | 7.22                            | 2.84                         | <sup>2</sup> 2.83  | 85.3  | 5.4  |
| Warner (with Box Corner) | 146                              | 16.09                         | 6.53                            | 1.12                         | <sup>2</sup> 14.33 | 99.1  | .9   |
| Blackwater               | 129                              | 20.27                         | 13.31                           | 3.38                         | 6                  | 99.5  | 27.7   |
| Main Stem North          | 64                               | 23.02                         | 21.47                           | 6.0                          | 3                  | 94.3  | 33.3   |

<sup>1</sup> Aquifer is bisected by one basin divide.

<sup>2</sup> Aquifer is bisected by two basin divides.

Table 8.--Summary of average hydraulic characteristics of subbasins in the Contoocook River basin

[mi<sup>2</sup>, square mile; in/yr, inch per year; ft<sup>2</sup>/d, foot squared per day; Mgal, million gallons]

| Subbasin                  | Drainage area<br>(mi <sup>2</sup> ) | Average annual precipitation <sup>1</sup><br>(in/yr) | Average annual ground-water discharge rate <sup>1,2</sup> or effective recharge<br>(in/yr) | Percent of total average annual stream-flow <sup>2</sup><br>(percent) | Water use<br>(in/yr) | Average estimated transmissivity <sup>3,4</sup> of subbasin<br>(ft <sup>2</sup> /d) | Average estimated ground-water storage <sup>3,4</sup> of subbasin<br>(Mgal) |
|---------------------------|-------------------------------------|--|--|---|----------------------|---|---|
| Main Stem South           | 68.1                                | 44.5   | 13.9   | 64  | 0.31                 | 1,850   | 4,300   |
| Nubanusit                 | 46.9                                | 47.0   | 14.3   | 62  | .12                  | --  | <sup>5</sup> 2,500  |
| North Branch              | 54.8                                | 47.5   | 13.6   | 62  | .01                  | 300   | 2,300   |
| Beards Brook              | 55.4                                | 47.5   | 11.6   | 58  | .02                  | 850   | 2,900   |
| Main Stem South-Central   |                                     |  |  |   |                      |   |   |
| Total <sup>6</sup>        | 368                                 | --   | 14.4   | 62  | --                   | 3,000   | 16,700  |
| Subbasin                  | 142                                 | 43.8   | 16.1   | 63  | .19                  | --  | <sup>7</sup> 7,200  |
| Main Stem North-Central   |                                     |  |  |   |                      |   |   |
| Total <sup>6</sup>        | 427                                 | --   | 13.3   | 59  | --                   | --  | --  |
| Subbasin                  | 59                                  | 40.0   | 7.5  | 38  | .20                  | --  | --  |
| Box Corner (Upper Warner) | 5.75                                | 47.5   | 15.4   | 57  | .04                  | 1,400   | 180   |
| Warner                    | 146                                 | 43.5   | 14.0   | 60  | .06                  | 900   | 7,500   |
| Blackwater                | 129                                 | 45.3   | 14.8   | 67  | .10                  | 1,200   | 5,300   |
| Main Stem North           |                                     |  |  |   |                      |   |   |
| Total <sup>6</sup>        | 766                                 | 43.8   | 13.9   | 64  | .14                  | 1,200   | 46,500  |
| Subbasin                  | 64                                  | 37.8   | 15.9   | --  | .20                  | --  | --  |

<sup>1</sup> From 1964-77.<sup>2</sup> Local minima-hydrograph separation (Pettyjohn and Henning, 1979).<sup>3</sup> Streamflow recessions, December 12, 1969.<sup>4</sup> Base-flow recessions (Bevans, 1986).<sup>5</sup> Estimated--assumed to be comparable to Beards Brook and North Branch.<sup>6</sup> Average of all basins above streamflow-gaging station.<sup>7</sup> Value includes estimated Nubanusit storage.

flow data at gaging stations in the Contoocook River basin. The effective ground-water recharge was assumed to be equal to the average annual ground-water discharge estimated from streamflow (data collected from stations shown on fig. 3) by use of a local minima streamflow-separation technique described by Pettyjohn and Henning (1979). It is assumed that most of the effective ground-water recharge to the subbasin is measured at gaging stations and that negligible ground-water seepage goes undetected.

Observed base-flow recessions of December 27, 1969 (fig. 11), are in agreement with theoretical be-

havior of base-flow recessions and generally satisfy assumptions necessary for computation of hydraulic diffusivity. Before computing hydraulic diffusivity (equation 1, p. 24), one must check the recession curve by comparing the observed and theoretical time it takes (in days) for streamflow to arrive at a true base-flow recession after a receding streamflow peak; this parameter is called the critical time (Bevans, 1986). The theoretical critical time describes an ideal recession curve that obeys an exponential decay function (Bevans, 1986). Observed critical times were compared to theoretical critical times that were determined by use of the equation

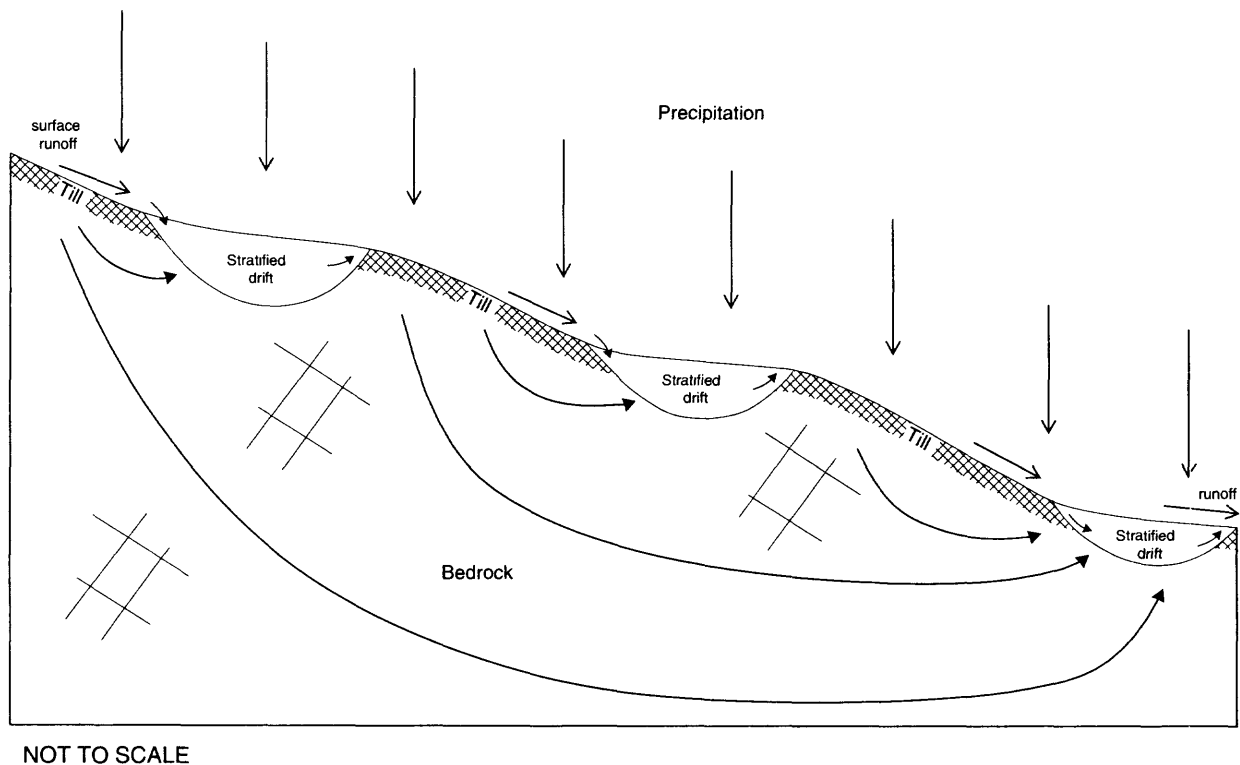


Figure 10.--Conceptual diagram of a ground-water system in a subbasin.

$$t_c = \frac{0.2(\Delta t / \log \text{cycle})}{0.933}, \quad (3)$$

where  $t_c$  is theoretical critical time and

$\Delta t / \log \text{ cycle}$  is the number of days required for base flow to decline over one log cycle.

Therefore, although streamflow at several stations during 1969, including 01083000 on the Nubanusit River and 01084000 on the North Branch, might be partially affected by surface-water control at MacDowel Dam and Highland Lake, respectively, base-flow recession curves indicate idealized recession.

Average annual ground-water discharge is greatest in the Main Stem South-Central subbasin and lowest in the Main Stem North-Central subbasin (table 8). The average annual ground-water discharge or effective recharge is an indicator of the potential gross aquifer yield in the basin. The potential for aquifer yield is greater in the Main Stem South-Central subbasin than in the Main Stem North-Central subbasin. The Main Stem North-Central stratified-drift aquifers are limited areally

and are relatively thin (pl. 3). Ground-water storage is highest in the Warner, Blackwater, and Main Stem South-Central subbasins; these subbasins contain the highest amounts of coarse-grained stratified-drift aquifers. Water withdrawals, which include surface and ground-water withdrawals, are relatively low in all subbasins and, therefore, should not significantly affect estimates of effective recharge.

Streamflow-duration curves for streams in the Contoocook River basin are shown in figure 12. Streamflow duration is useful for analyzing the availability and variability of streamflow. Streamflows that are equaled 80 percent of the time reflect primarily ground-water discharge. Flow-duration curves with moderate slopes reflect greater amounts of ground-water discharge than curves with steep slopes. Because gaging stations 01088000, 01085000, and 01085500 are downstream from major-tributary confluences, streamflow characteristics of other tributary basins, as well as of the gaging-station basins, are integrated. The locations of the gaging stations are shown in figure 3. Streamflow at gaging stations 01083000, 01085800, and 01088000 may be affected by surface-water regulation.

Streamflow measurements at gaging stations 01088000, 01085000, 01085500, 01087000, and

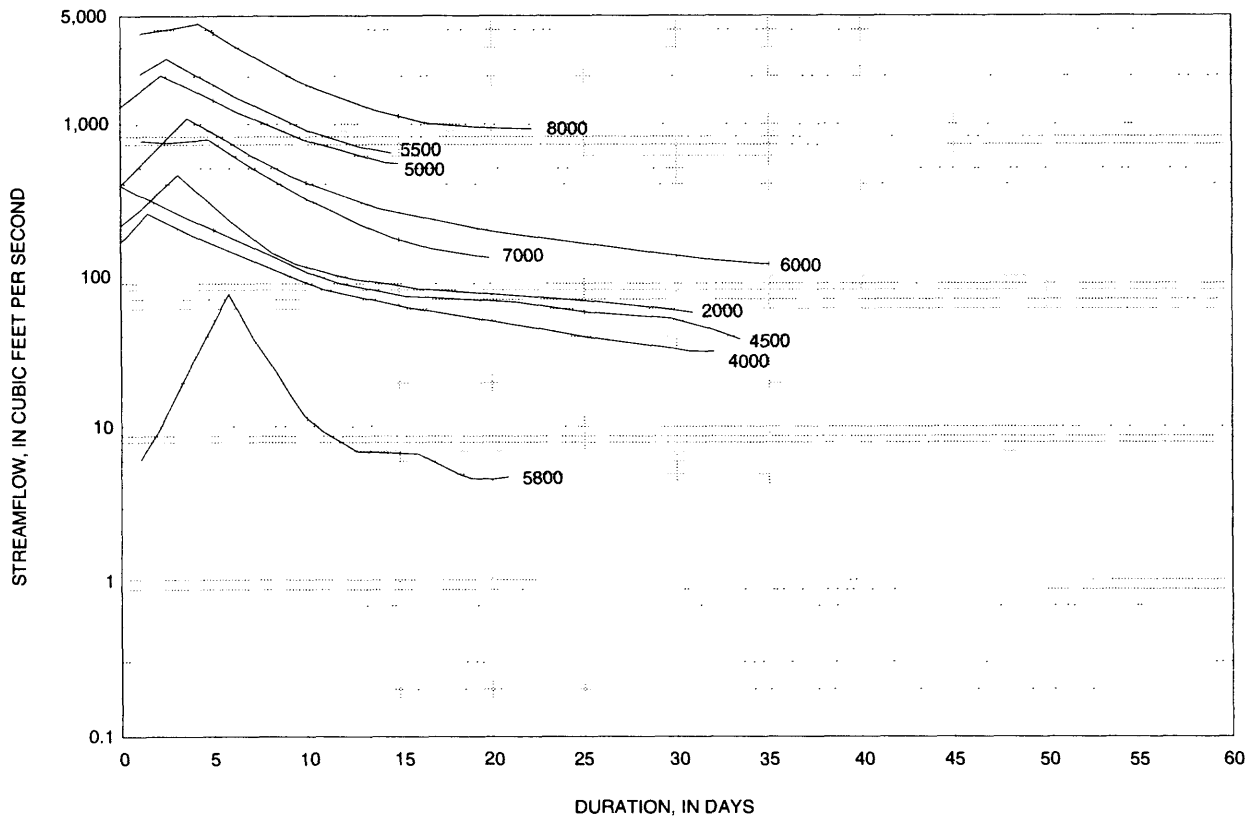


Figure 11.--Base-flow recessions at selected streamflow-gaging stations in the Contoocook River basin. (Numbers are station numbers; the first four digits, 0108, are omitted. Locations shown in fig. 3.)

01086000 indicate higher ground-water discharges than at the other stations. These particular sub-basins drain stratified drift in more than 12 percent of the total subbasin area. In general, the percentage of stratified drift in the Contoocook River basin seems to control the rate of ground-water discharge; these observations corroborate previous observations by Thomas (1966). An exception to this observation is that the Main Stem South basin (01082000), which contains stratified drift in more than 23 percent of the total subbasin area (table 7), which has a

steep duration curve at probabilities exceeding 99.5 percent. Stratified-drift deposits in the Main Stem South basin are areally extensive; however, ground-water storage is limited by the thinness of the saturated zone, which could explain the steep duration curve.

Maximum transmissivities, maximum pumping rate, and maximum seepage gain per unit aquifer area are summarized by subbasin in table 9. The highest reported transmissivity and pumping rate are at a production well for a paper mill along the



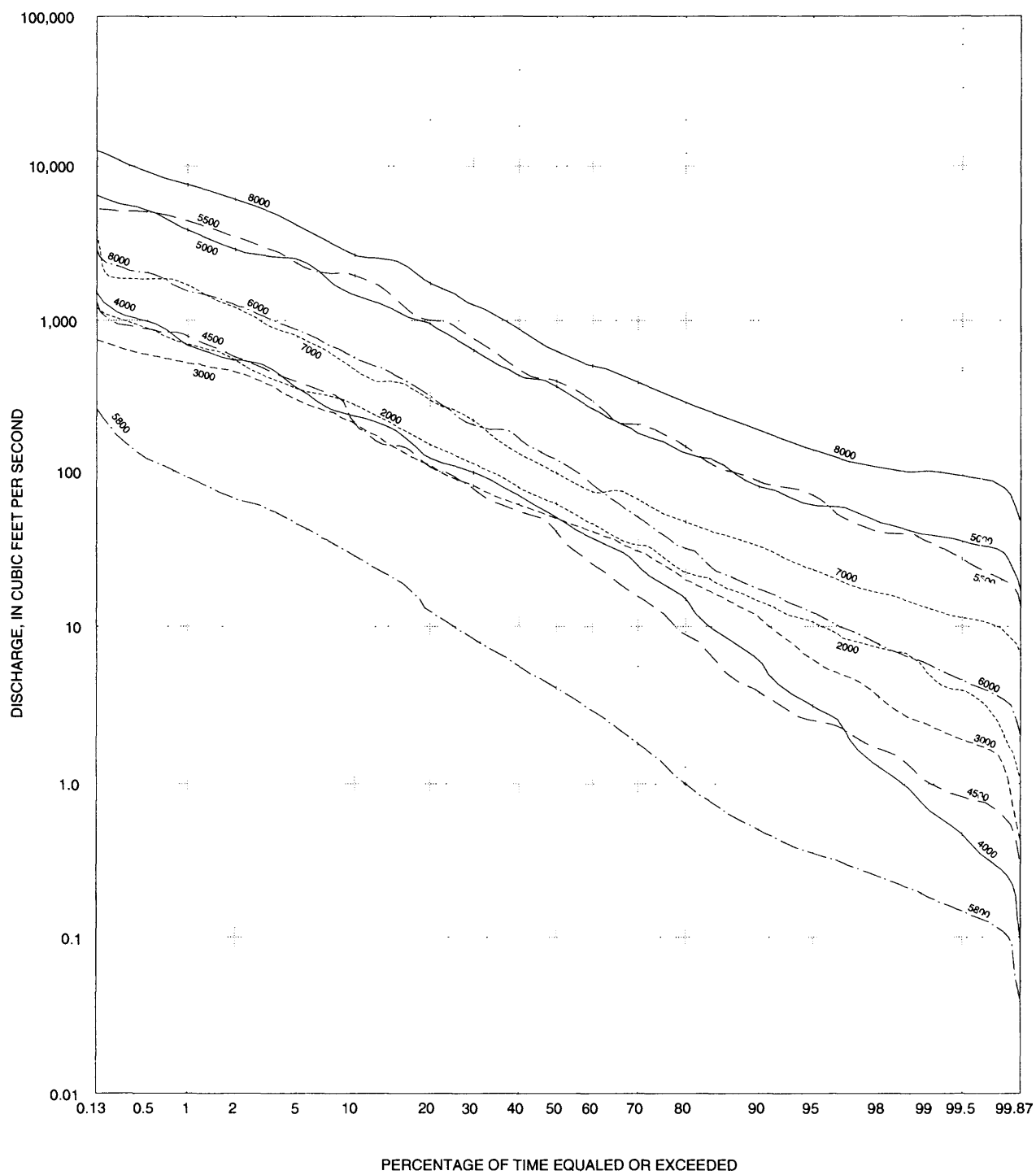


Figure 12.--Streamflow-duration curves for gaging stations in the Contoocook River basin. (Numbers are station numbers; the first four digits, 0108, are omitted. Locations shown in fig. 3.)

Table 9.--Summary of hydraulic characteristics of stratified-drift aquifers in subbasins of the Contoocook River basin  
 [ft<sup>2</sup>/d, foot squared per day; gal/min, gallon per minute; (ft<sup>3</sup>/s)/mi<sup>2</sup>, cubic foot per second per square mile; --, no data]

| Subbasin                | Maximum transmissivity from hydraulic tests |              |                           |              | Maximum pumping rate |            |                |              | Maximum seepage gain per unit aquifer area <sup>1</sup> |  |
|-------------------------|---|--------------|---------------------------|--------------|----------------------|------------|----------------|--------------|---|--|
|                         | Well number                                 | Town         | Rate (ft <sup>2</sup> /d) | Date of test | Well number          | Town       | Rate (gal/min) | Date of test | Aquifer   | Rate [(ft <sup>3</sup> /s)/mi <sup>2</sup> ] |
| Main Stem South         | PCW-42                                      | Peterborough | 13,600                    | July 1984    | JBW-46               | Jaffrey    | 780            | Oct. 1979    | Peterborough South                                      | 2.42   |
| Nubanusit               | --  | --           | --                        | --           | DKW-103              | Dublin     | 3              | June 1989    | --  | --   |
| North Branch            | --  | --           | --                        | --           | --                   | --         | --             | --           | --  | --   |
| Beards Brook            | --  | --           | --                        | --           | --                   | --         | --             | --           | --  | --   |
| Main Stem South-Central | BNW-44                                      | Bennington   | 63,700                    | Nov. 1989    | BNW-44               | Bennington | 880            | Nov. 1989    | Greenfield-Otter Brook                                  | .43  |
| Main Stem North-Central | HMW-12                                      | Henniker     | 35,035                    | July 1979    | HMW-12               | Henniker   | 326            | July 1979    | --  | --   |
| Warner                  | WCW-23                                      | Warner       | 23,500                    | Apr. 1987    | WCW-20               | Warner     | 265            | Jan. 1988    | Bradford-West Branch                                    | 1.0  |
| Blackwater              | NLW-23                                      | New London   | 25                        | July 1986    | WMW-20               | Wilmot     | 20             | Aug. 1985    | Salisbury-Blackwater                                    | 2.32   |
| Main Stem North         | HUW-31                                      | Hopkinton    | 26,000                    | Dec. 1961    | HUW-31               | Hopkinton  | 134            | May 1984     | Hopkinton/Concord                                       | .17  |

<sup>1</sup> From streamflow measurements June or September 1988.

Contoocook River in the Main Stem South-Central subbasin. Few data are available for the tributary subbasins (Nubanusit, Beards Brook, North Branch, Warner, and Blackwater); thus, the low transmissivity for the Blackwater subbasin, 25 ft<sup>2</sup>/d, probably is not representative of the potential of the aquifers in that subbasin.

Seepage gains per unit aquifer area are an indicator of the amount of ground-water storage and (or) rates of ground-water recharge. Large seepage gains reflect large amounts of ground-water storage and (or) large amounts of recharge to the aquifer. A large seepage gain was found in the Peterborough South stratified-drift aquifer, which may indicate that additional ground-water withdrawals are available from this aquifer (pl. 4).

Characteristics of the major stratified-drift aquifers are described below by subbasin. Aquifers are named by township and a prominent physical or geographic feature, such as a stream that drains the aquifer. For example, the stratified-drift aquifer in the town of Greenfield and drained by Otter Brook is called the Greenfield-Otter Brook aquifer.

Generalized stratigraphy, saturated thickness, and transmissivities of aquifers within each subbasin are shown on plates 1 through 4. (Refer to fig. 2 for the location of each town and subbasin on the plates.) Generalized stratigraphy is shown on plates 1 and 2. Aquifers containing mostly coarse sediments are classified as stratified-drift aquifers. Aquifers containing mostly fine-grained sediments are classified as (1) stratified-drift aquifers over glacial-lake-bottom deposits, (2) stratified-drift aquifers within or beneath glacial-lake-bottom deposits, (3) stratified-drift aquifers beneath till, and (4) glacial-lake-bottom deposits. Till-covered bedrock knobs and bedrock outcrops also are shown on the plates if they are surrounded by the stratified-drift aquifers.

### Main Stem South Subbasin

A large, contiguous stratified-drift aquifer is present within the Contoocook River valley in the towns of Jaffrey and southern Peterborough. The aquifer is hydraulically connected to aquifers along the Gridley River in Sharon and aquifers underlying Annett State Forest. Aquifers are primarily composed of ice-contact deltaic deposits formed during the first through third stages of glacial Lake Contoocook; examples of ice-contact deltaic deposits include deposits underlying Jaffrey Airport and within Annett State Forest. The aquifer at Annett

State Forest seems to be hydraulically connected to stratified-drift aquifers in the Miller drainage basin of northern Massachusetts (Collings and others, 1969). The sediments composing the aquifers were deposited during the first through third stages of glacial Lake Contoocook (fig. 4).

Stratigraphic sequences in stratified-drift aquifers of the Main Stem South subbasin include (1) a contiguous sequence of coarse-grained sediments over the entire saturated thickness, (2) interlayered coarse- and fine-grained sediments, and (3) small pockets of thick fine-grained sediments. A uniform stratigraphy of coarse-grained sediments typically is present at locations of glacier-ice stagnation where meltwater streams entered the glacial lake and deposited deltas. Interlayered fine- and coarse-grained sediments are present along the Contoocook River where the saturated thickness exceeds 50 ft. The stratigraphy of these interlayered deltaic sands and glaciolacustrine silts and clays is a record of glacial advances and retreats; examples include deposits by Contoocook Lake and the Peterborough south municipal well field at well PCW-71 (pls. 2 and 4).

The maximum saturated thickness in the Main Stem South subbasin is approximately 100 ft at Jaffrey Airport. The maximum transmissivity exceeds 8,000 ft<sup>2</sup>/d at the Peterborough south municipal well field (approximately 8,200 ft<sup>2</sup>/d) and in New Ipswich, by Tophet Swamp (approximately 9,000 ft<sup>2</sup>/d) (pl. 4). Along most of the Main Stem, the aquifer is thin; saturated thickness is less than 40 ft.

Average daily municipal ground-water withdrawals are 0.37 Mgal/d or 0.57 ft<sup>3</sup>/s. The town of Jaffrey withdraws approximately 0.37 Mgal/d from wells JBW-43 (East Main Street well) and JBW-44 (adjacent to the northeast shoreline of Contoocook Lake). The town of Peterborough withdraws approximately 0.3 Mgal/d from well PCW-71 (South Street well). Withdrawals by commercial and domestic users for the basin are estimated to be 0.38 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991).

Total ground-water storage for the subbasin is estimated at 4,300 Mgal for all aquifers in the basin including stratified-drift, till, and bedrock aquifers (table 8). The maximum potential average annual effective ground-water recharge to stratified-drift aquifers in the subbasin, 15.7 Mgal/d, was estimated from an area-weighted calculation of the size of the stratified-drift aquifers (table 7) and a maximum potential average annual recharge rate of 21 in/yr. The effective recharge rate for the entire basin, 13.9 in/yr (table 8), includes hydraulic properties of the

till, bedrock, and stratified drift. The effective recharge rate for the entire subbasin is less than the maximum potential average annual recharge rate of 21 in/yr to the stratified drift because stratified-drift deposits are highly transmissive and accept greater amounts of recharge than the till and bedrock. As a result, effective recharge determined from streamflow data, which integrates the properties of all hydrologic units in a subbasin, is less than the optimal recharge rate to the stratified drift.

The stratified-drift aquifers in the Main Stem South subbasin have the potential to yield additional water; however, several factors complicate the possibility of increased ground-water withdrawals. Base-flow characteristics of the basin, as determined from streamflow records at gaging station 01082000, indicate that ground-water storage is limited when streamflow conditions are below 90-percent flow duration (fig. 11). Base-flow measurements, however, show relatively large seepage gains of 2.42 (ft<sup>3</sup>/s)/mi<sup>2</sup> in the stratified-drift aquifer near the Peterborough South municipal well (PCW-71, pls. 2 and 4). Perhaps the greatest impediment to increased withdrawals from existing or new wells is ground-water quality. Ground-water contamination has been detected in some of the areas that include the most transmissive aquifers in the basin, such as the Peterborough South well field (New Hampshire Water Supply and Pollution Control Commission, 1985). As a result, withdrawals have been discontinued at well PCW-71.

### **Nubanusit Subbasin**

Six isolated aquifers are in the Nubanusit basin. The largest aquifer underlies 1.77 mi<sup>2</sup> of southeastern Harrisville, northwestern Peterborough, and southwestern Hancock. The sediments composing the aquifers were most likely deposited during separate and isolated glacial depositional events. The deposits are derived from glaciolacustrine and glaciofluvial origins at Mud Pond, along Brush Brook, and along the Nubanusit Brook at Dinsmore Pond (pls. 2 and 4). The western part of the aquifer at Brush Brook consists of thinly saturated ice-contact deposits. The deposit south of Nubanusit Lake appears to have been formed at an ice margin.

Stratigraphic sequences of stratified-drift aquifers in the subbasin include coarse-grained sediments and multilayered coarse- and fine-grained sediments. A relatively uniform sequence of coarse-grained sediments (sands and gravels) is found along

the Nubanusit River in east Harrisville north of Dinsmore Pond. Multiple layers are found in the eastern part of the Dinsmore Pond--an upper coarse-grained layer overlying a basal fine-grained layer.

The maximum saturated thickness of aquifers in the Nubanusit basin exceeds 80 ft at Mud Pond in east Dublin (approximately 85 ft) and at Dinsmore Pond (approximately 105 ft) in east Harrisville. The saturated thickness of the aquifer along Brush Brook does not exceed 40 ft. Information on transmissivity for the aquifer south of Nubanusit Lake is not available because of the lack of lithologic data.

Ground-water withdrawals in this subbasin are largely for commercial and domestic use. There are no municipal ground-water withdrawals. Total ground-water withdrawals are estimated at 0.19 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991).

Ground-water storage is estimated at 2,500 Mgal for all stratified-drift, till, and bedrock aquifers in the subbasin (table 8). The maximum potential average annual ground-water recharge to the stratified drift, 4.0 Mgal/d, was estimated from area-weighted calculations of the size of the stratified-drift aquifers and a maximum potential average annual recharge rate of 21 in/yr. The effective recharge rate for the basin is 14.3 in/yr (table 8).

Ground-water storage is limited, and aquifer yield is highly dependent on the potential for induced infiltration to most aquifers in the subbasin. Ground-water storage is probably greatest in aquifers at Mud Pond and at Dinsmore Pond. The amount of streamflow available for induced infiltration is approximately 1.0 ft<sup>3</sup>/s at most aquifers. Base flows measured on September 29, 1988, exceeded 1.0 ft<sup>3</sup>/s along the principal streams draining the aquifers, when streamflow at station 01083000 was at the 90-percent flow duration. The potential for induced infiltration is greatest at the Dinsmore Pond aquifer because base flow along Nubanusit Brook at the Dinsmore Pond aquifer was 30 ft<sup>3</sup>/s when streamflow at gaging station 01083000 was at 90-percent flow duration.

### **North Branch Subbasin**

The North Branch subbasin contains seven isolated stratified-drift aquifers. One aquifer is bisected by a drainage divide and is partially in the Beards Brook subbasin. The potential exists for some ground-water outflow between subbasins; however, the amount must be negligible in comparison to the total ground-water budget. The largest aquifer

underlies 0.33 mi<sup>2</sup> of western Antrim along the North Branch (pls. 2 and 4). The sediments comprising the aquifers were deposited in narrow valleys controlled by local till spillways. Deposits are probably glaciofluvial and glaciolacustrine in origin except at the aquifer in western Antrim along the North Branch, which is derived from ice-contact deposits.

Information is unavailable on stratigraphy, saturated thickness, and transmissivity for most of the aquifers in the subbasin. The physiography of the subbasin, however, indicates that the saturated zone is thin because of the narrow valleys. Ground-water withdrawals are negligible and are entirely for domestic use. The aquifers along the North Branch in Antrim probably have the greatest potential for aquifer yield because this area must have been a principal glacial drainage outlet where glaciofluvial deposits might have accumulated.

Ground-water storage in all aquifers in the basin, including stratified-drift, till, and bedrock aquifers is estimated to be 2,300 Mgal (table 8). The maximum potential average annual ground-water recharge to the stratified-drift aquifer, 1.3 Mgal/d, was estimated from area-weighted calculations of the size of the stratified-drift aquifers and a maximum potential average annual recharge rate of 21 in/yr. The effective recharge rate for the basin is 13.6 in/yr (table 8).

Aquifers in the subbasin are small and have limited ground-water storage; base flow along the North Branch shows a sharp decrease below a flow duration of 80 percent at gaging station 01084000. Therefore, aquifer yield depends on the potential for induced infiltration. Induced infiltration potential is highest along the aquifers in contact with the North Branch. Base flow at gaging station 01084000 on September 29, 1988, was 28.9 ft<sup>3</sup>/s; the corresponding flow duration is 76 percent.

### **Beards Brook Subbasin**

The Beards Brook subbasin contains ten isolated stratified-drift aquifers; the subbasin also contains two other aquifers. The largest aquifer underlies 1.11 mi<sup>2</sup> along Beards Brook valley in northwestern Hillsborough (pls. 2 and 4). The sediments composing aquifers below an elevation of 900 ft in Hillsborough, Washington, and Bradford were deposited during the fourth through sixth stages of glacial Lake Contoocook. The stratified-drift aquifers formed during glacial Lake Contoocook consist of deltaic deposits. The sediments from

aquifers in Windsor were deposited during separate glacial depositional events.

Stratigraphic information on stratified-drift aquifers is unavailable for most of the aquifers in the subbasin: at Bradford Springs, East Washington, along Shedd Brook in Washington and Hillsborough, and in southern Windsor. The aquifer along Shedd Brook at Hillsborough Upper Village consists of sand. The aquifer along Beards Brook in Hillsborough near gaging station 01084500 contains an upper coarse-grained layer of sands and gravel and a basal layer of interfingering coarse-grained sands and fine-grained silts.

Saturated thickness of the aquifers in the basin is generally less than 40 ft. The maximum saturated thickness in the subbasin is at least 58 ft at the aquifer along Beards Brook in Hillsborough. Transmissivity is estimated to be less than 1,000 ft<sup>2</sup>/d in most aquifers.

Ground-water withdrawals are largely for commercial and domestic use. Ground water is not withdrawn for municipal use in the basin. Estimated ground-water withdrawals from domestic and commercial use are 0.10 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991). Most withdrawals are from bedrock.

Seepage gains in the aquifer along Beards Brook in northwestern Hillsborough were 1.86 (ft<sup>3</sup>/s)/mi<sup>2</sup> on September 29, 1988, when streamflow at gaging station 01084500 was at the 77-percent flow duration. Further downstream, seepage gains in the aquifer along Beards Brook, just upstream from gaging station 01084500, were about 2 ft<sup>3</sup>/s.

Ground-water storage in all aquifers in the subbasin is estimated to be 2,900 Mgal (table 8). The maximum potential average annual ground-water recharge to the stratified-drift aquifers (5.2 Mgal/d) was estimated from an area-weighted calculation based on the size of the stratified-drift aquifers and a maximum potential average annual recharge rate of 21 in/yr. The effective recharge rate for the basin is 11.6 in/yr (table 8).

The potential for aquifer yield is probably greatest at aquifers along Beards Brook in Hillsborough. Aquifer transmissivities and the potential for induced infiltration are highest at these aquifers and at a high-transmissivity zone adjacent to Franklin Pierce Lake.

### **Main Stem South-Central Subbasin**

The Main Stem South-Central subbasin is the largest subbasin (142 mi<sup>2</sup>) of the Contoocook River

basin. The subbasin contains 22 distinct aquifers and the northern part of an aquifer that originates in the Main Stem South subbasin (fig. 2). The largest and most contiguous aquifer within the Contoocook River basin is within this area and is approximately 10 mi long; maximum width is approximately 2 mi in northern Greenfield and southern Bennington. The aquifer extends from Greenfield in the south to Hillsborough in the north (fig. 2). Although the aquifer is continuous and hydraulically connected throughout, several ground-water divides virtually isolate the different parts of the aquifer into separate ground-water-flow systems (pl. 2). A ground-water divide in Greenfield isolates the flow system in the Greenfield-Otter Brook aquifer from the main stem Contoocook River valley aquifer. Another divide in Hillsborough isolates the flow system downstream from the Hillsborough town center from the aquifer in southern Hillsborough and northern Deering.

The sediments comprising the aquifers in the Main Stem South-Central subbasin were primarily deposited during the fifth stage of glacial Lake Contoocook, when the outlet for glacial meltwaters was near Greenfield State Park (fig. 4). Sediments deposited during the fifth stage of glacial Lake Contoocook were reworked and redeposited when glacial drainage patterns changed during the sixth stage of glacial Lake Contoocook. The sediments, found in several small but highly transmissive aquifers in the western part of the subbasin in Hancock, were deposited at higher altitudes and by separate glacial depositional events than the sediments deposited at lower altitudes in glacial Lake Contoocook. In general, coarse-grained sediments were deposited by (1) glacial meltwaters as ice-front deltas in areas where the main stem of the Contoocook River valley is narrow and constricted by adjacent ridges, (2) glacial meltwaters in valleys originating to the west of the main stem, and (3) reworking and redeposition of coarse-grained outwash after the draining of successive stages of glacial Lake Contoocook (these deposits are typically less than 20 ft thick).

The stratigraphic sequences in stratified-drift aquifers of the subbasin include (1) a contiguous sequence of coarse-grained sediments, (2) multi-layered coarse- and fine-grained sediments, and (3) thick sequences of fine-grained sediments capped by a thin layer of sands less than 25 ft thick. A uniform and contiguous sequence of coarse-grained sediments were deposited by ice-front deltas and in subglacial meltwater channels; examples include the western part of Greenfield State Park, the eastern shore of Powder Mill Pond in northern Greenfield

and southern Bennington, Norway Pond in Hancock, and along the main stem of the Contoocook River in Peterborough. An example of a reworked coarse-grained deposit includes a high-transmissivity zone (estimated to be at least 22,000 ft<sup>2</sup>/d) near a paper mill along the Contoocook River in Bennington. This area contains the most transmissive stratified-drift aquifers in the entire Contoocook River basin. The transmissivity estimated from hydraulic tests at BNW-44 at the paper mill is 63,700 ft<sup>2</sup>/d. The transmissivity estimated from the lithologic logs from the same wells is approximately 22,000 ft<sup>2</sup>/d. A sequence of predominantly coarse-grained deposits is present along Davis Brook in Hancock south of an ice-marginal delta at Hancock Village. Thick sequences of glaciolacustrine, fine-grained sediments are present along the Contoocook River in northern Bennington and southern Deering. At depth, fine-grained sediments are commonly found beneath, or interlayered with, coarse-grained sediments throughout the remaining part of the basin.

Maximum saturated thickness is approximately 230 ft in Hancock next to Norway Pond and approximately 170 ft in Deering. Saturated thickness in the Greenfield-Otter Brook aquifer is 147 ft. The aquifer in Hancock is the thickest sequence of saturated stratified drift in the Contoocook River basin and must be the result of intense erosional scouring by a glacier in a bedrock channel. Estimated transmissivities exceed 8,000 ft<sup>2</sup>/d at eight sites (pl. 2), including the highly transmissive zone near the paper mill. Areas of high transmissivity correlate with areas where sediments were deposited in ice-front deltas and in eskers. Several of these highly transmissive zones (such as the aquifer in Hancock) may be hydraulically connected to surface-water bodies.

Ground-water withdrawals from stratified-drift aquifers include two municipal wells for the towns of Peterborough (PCW-66 and PCW-126) and a municipal well for the towns of Antrim and Bennington (BNW-10). The average daily withdrawal from municipal wells is approximately 0.80 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991). Ground-water withdrawals for commercial uses are numerous and include a paper mill. Domestic withdrawals, estimated at 0.3 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991), are mostly from bedrock. Total ground-water withdrawals in the subbasin are estimated at 1.1 Mgal/d.

Base-flow data indicate that ground-water withdrawals may be near the limit of the seasonal recharge rate for late summer and early fall in some

areas of the subbasin. Large seepage gains are an effective indicator of the potential amount of aquifer yield. The Contoocook River gained 87.6 ft<sup>3</sup>/s on September 28, 1990, when streamflow exceeded 87-percent flow at gaging station 01085000 on the Contoocook River in Henniker. The effective seepage gain of the subbasin was 4.06 ft<sup>3</sup>/s (excluding streamflow contributions from Nubanusit Brook, Beards Brook, and North Branch). The effective seepage gain of the subbasin is 0.03 (ft<sup>3</sup>/s)/mi<sup>2</sup>; a comparatively low rate of seepage gain per subbasin size. In contrast, seepage gains in selected parts of the subbasin, which drain stratified-drift aquifers, show relatively high gains per aquifer size. Aquifer discharge at Farrar Marsh in northeastern Hillsborough was 0.30 (ft<sup>3</sup>/s)/mi<sup>2</sup>, and aquifer discharge along Otter Brook, in Greenfield, was 0.43 (ft<sup>3</sup>/s)/mi<sup>2</sup>--one of the highest rates in the Contoocook River basin.

Seepage losses were observed along Ferguson Brook in Hancock village on September 28, 1988. Streamflow losses were attributed to a combination of factors including thick permeable deposits at the northern headwaters of the aquifer that permit infiltration of streamflow to the ground-water system, and thin, less permeable deposits at the aquifer's confluence with the main stem aquifer at base-flow station PET1A (pl. 2) that cause pooling of water along Ferguson Brook (pl. 2). In contrast to the net loss along Ferguson Brook, significant gains were observed on a small tributary to Ferguson Brook that drains the southeastern corner of Hancock village. This stream must be fed by ground-water seepage from Norway Pond because it shows unusually high gains for an extremely small drainage area. Ground water probably feeds this small tributary southward through a narrow bedrock channel filled with ice-contact deltaic sands and gravels beneath Hancock village.

Ground-water storage in all aquifers in the subbasin is estimated to be 7,200 Mgal. This subbasin has the largest ground-water storage within the Contoocook River basin and contains the most stratified drift (table 7). Base flows at greater than the 90-percent flow duration (low discharge but high probability) at station 01085000 on the Contoocook River show a gradual decline with increasing flow probability (lower flow) (fig. 11). The maximum potential average annual ground-water recharge to the stratified-drift aquifers, 28 Mgal/d, was estimated from an area-weighted calculation and a maximum potential average annual recharge rate of 21 in/yr. The effective recharge rate for the basin is 16.1 in/yr (table 7).

The potential for aquifer yield is greatest in areas with transmissive aquifers in hydraulic connection with surface-water bodies, such as Norway Pond and Franklin Pierce Lake, and transmissive aquifers in contact with saturated fine-grained sediments over a large surface area. Aquifer yields were estimated for two aquifers in this basin by use of the analytical ground-water-flow model discussed in the section "Estimation of Aquifer Yields for Selected Aquifers."

### Main Stem North-Central Subbasin

The Main Stem North-Central subbasin contains one large contiguous aquifer (approximately 7 mi<sup>2</sup>) along the main Contoocook River valley and three separate small aquifers. The aquifer along the main Contoocook River valley begins in western Henniker and continues into the Main Stem North subbasin in Hopkinton and covers 12 percent of the basin. The sediments composing the aquifers were deposited during the fifth through seventh stages of glacial Lake Contoocook. The sediments were deposited as (1) ice-contact deposits in western Henniker along the Contoocook River, (2) deltaic deposits in northwestern Henniker near well HMW-12 (pl. 3), (3) eskers and kames in valleys of Colby Brook and Hopkinton Reservoir, (4) glaciolacustrine deposits along the Contoocook River valley in eastern Henniker, and (5) a large ice-contact delta that formed where water from the fifth stage of glacial Lake Contoocook was discharged and began the sixth stage of the glacial lake on the northern side of Craney Hill.

The stratigraphic sequence in the stratified-drift aquifers of the subbasin include (1) coarse-grained sand and gravels intermixed with till in the small, isolated aquifer along the Contoocook River in western Henniker, (2) interlayered coarse- and fine-grained sediments in the large, contiguous main valley of the Contoocook River in central Henniker (coarse-grained deltaic deposits border this aquifer on the north and south sides), (3) a thin upper layer of sand and a basal fine-grained layer of silts and clays in eastern Henniker, and (4) sequences of coarse-grained sediments in the north-south-trending valleys that served as outlets of drainage from glacial Lake Contoocook.

The maximum saturated thickness exceeds 120 ft (135 ft at well HMW-154) along the principal main stem valley in eastern Henniker. Saturated thickness in the north-south trending valley occupied by Hopkinton Reservoir is also substantial, exceeding 80 ft (109 ft at well HUB-160). Maximum transmis-

## Warner Subbasin

sivity inferred from lithologic data exceeds 8,000 ft<sup>2</sup>/d at the location of the Henniker municipal well HMW-12 (pl. 3). Areas of high transmissivity are associated with deltaic deposits and ice-contact eskers and kames.

In the principal aquifer along the Contoocook River, horizontal hydraulic gradients of ground water are low (0.01 ft/ft) and horizontal rates of flow are probably slow. Horizontal hydraulic gradients of ground water are generally steeper (by a factor of 3) in north-south-trending valleys and where streams enter the main valley aquifer. Variations in rates of ground-water flow cause variations in residence times of ground water. Ground water in this subbasin can probably be characterized as having a longer residence time than ground water in other subbasins, with the exception of ground water in the Main Stem North subbasin.

Ground-water withdrawals include the three municipal wells for the town of Henniker (pl. 3) and domestic supplies. The three municipal wells withdraw 0.24 Mgal/d. An abandoned well at an abandoned paper mill in west Henniker once withdrew 0.14 Mgal/d (Gary Smith, D.L. Maher Co., oral commun., 1991). Domestic use, estimated at 0.19 Mgal/d (M.A. Horn, U.S. Geological Survey, oral commun., 1991), is primarily from bedrock water supplies. Commercial withdrawals also are from bedrock.

The maximum potential average annual recharge to the stratified-drift aquifer, 8 Mgal/d, was estimated from area-weighted calculations of aquifer size and a maximum potential average annual recharge rate of 21 in/yr. The effective ground-water recharge rate is 7.5 in/yr (table 8)--the lowest rate for any subbasin within the Contoocook River basin.

Base flow decreased by 15.4 ft<sup>3</sup>/s in the basin on September 29, 1988. Streamflow draining the basin at gaging station 01085500 was 91 ft<sup>3</sup>/s, whereas inflow to the basin was 106.4 ft<sup>3</sup>/s at gaging station 01085000. Streamflow losses may be a result of increases in surface-water storage. Streamflow on September 29, 1988, corresponded to an 85-percent flow duration at gaging station 01085000.

The potential for increased aquifer yield is probably greatest in East Henniker and near Mud Pond in southeast Henniker (pl. 3). The aquifer beneath the Hopkinton Reservoir also may provide significant yields. Aquifer yield for the aquifer in east Henniker was analyzed by use of an analytical ground-water-flow model and is discussed in detail in the section "Estimation of Aquifer Yield for Selected Aquifers."

The Warner subbasin, which includes the small Box Corner subbasin, contains 14 stratified-drift aquifers and shares the southern part of another aquifer in the Blackwater subbasin in Sutton. The largest aquifer, 6.5 mi<sup>2</sup>, is in Warner. The aquifers are generally lenticular and contain sediments formed predominantly as deltas, eskers, kames, and outwash. The southern part of the basin was inundated during the seventh stage of glacial Lake Contoocook.

The most significant stratigraphic feature of stratified-drift aquifers in the subbasin is the predominance of coarse-grained sediments along the Warner River in Warner. These coarse-grained sediments were deposited by glacial meltwaters in kames and eskers. The coarse-grained sediments elsewhere in the basin are not as areally extensive and were deposited in deltas. The small aquifers in Bradford, Newbury, and Sutton consist of multilayer coarse- and fine-grained sediments (the exception is the predominance of coarse-grained sediments in the northern part of the aquifer in Newbury). In general, fine-grained sediments can be found in thick stratigraphic sequences deposited in deep bedrock channels.

The maximum saturated thickness is approximately 120 ft near Tom Pond in Warner (pl. 4). The thick sequence at Tom Pond was deposited in a deep erosional bedrock channel that was scoured by subglacial meltwaters. Saturated thickness is generally less than 100 ft elsewhere in the subbasin. Estimated maximum transmissivity exceeds 8,000 ft<sup>2</sup>/d near Tom Pond in Warner and is attributed to coarse-grained sediments deposited in subglacial valley trains. Estimated transmissivities exceed 1,000 ft<sup>2</sup>/d for stratified-drift aquifers throughout much of the subbasin.

The aquifers in the Warner River subbasin contain water with shorter residence times than water in aquifers along the main stem. Hydraulic gradients of the aquifers in the Warner River subbasin are steeper than aquifers along the main stem of the Contoocook River valley because of the lenticular shape of the aquifers and the moderate to steeply sloping stream-channel gradients.

Municipal ground-water withdrawals are 0.05 Mgal/d from the municipal well at Warner. Total ground-water withdrawals for the subbasin by domestic and commercial users are estimated at 0.39 Mgal/d (M.A. Horn, U.S. Geological Survey, oral commun., 1991).



The total amount of ground-water storage from all deposits in the basin is 7,500 Mgal (table 8). The maximum potential average annual recharge to the stratified-drift aquifer, 16.0 Mgal/d, was estimated from area-weighted calculations of aquifer size and a maximum potential average annual recharge rate of 21 in/yr. The effective ground-water recharge rate is 14.0 in/yr (table 8).

At gaging station 01086000 in the Warner River, a base flow of 30.8 ft<sup>3</sup>/s on September 29, 1988, corresponded to a flow duration of 85 percent. The rate of seepage per subbasin area is 0.21 (ft<sup>3</sup>/s)/mi<sup>2</sup>. Seepage gains across stratified-drift aquifers were 0.46 (ft<sup>3</sup>/s)/mi<sup>2</sup> in Newbury, 0.23 (ft<sup>3</sup>/s)/mi<sup>2</sup> in west Bradford, 1.0 (ft<sup>3</sup>/s)/mi<sup>2</sup> in east Bradford along the West Branch, and 0.94 (ft<sup>3</sup>/s)/mi<sup>2</sup> along Stevens Brook in Sutton. Base-flow losses along Kings Brook in Sutton are attributed to natural streamflow loss.

The potential for additional aquifer yield is greatest at Tom Pond in Warner and along the West Branch in Bradford. Aquifer yields along the Warner River, except near Tom Pond, are highly dependent upon the capacity to induce infiltration from the Warner River because of minimal ground-water storage in the lens-shaped aquifer.

### **Blackwater Subbasin**

The Blackwater subbasin contains two large stratified-drift aquifers along the Blackwater River and several other small, isolated aquifers. The aquifer sediments were deposited in the form of deltas, kames, and outwash plains.

The predominant stratigraphic sequence of stratified-drift aquifers in the subbasin is basal fine-grained layers of silts and clays capped by varied thicknesses of coarse-grained sediments. This stratigraphic sequence is typical of glacial-lake environments that drained and were subsequently capped by outwash deposits. Coarse-grained sequences of ice-contact deposits along Cascade Brook in New London and interlayered coarse- and fine-grained sediments at well ANW-19 in Andover (pls. 1 and 3) indicate multiple advances and retreats of a glacier that consequently deposited coarse-grained upper and lower layers in a glaciolacustrine environment.

The maximum saturated thickness is approximately 200 ft in eastern Andover. The saturated thickness is generally less than 40 ft throughout the subbasin. The estimated maximum transmissivity

exceeds 4,000 ft<sup>2</sup>/d in east Andover. A maximum transmissivity of 17,600 ft<sup>2</sup>/d was estimated from lithologic logs at ANW-20; however, this value is high compared to transmissivities in surrounding areas. Estimated transmissivity is generally less than 2,000 ft<sup>2</sup>/d.

Ground-water withdrawals in the basin are principally for domestic use. Total ground-water withdrawals, estimated to be 0.57 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991), are largely from bedrock.

The total amount of ground-water stored in all deposits in the basin is 5,300 Mgal (table 8). The maximum potential average annual recharge to the stratified-drift aquifer, 20.3 Mgal/d, was estimated from area-weighted calculations of aquifer size and a maximum potential average annual recharge rate of 21 in/yr. The effective subbasin ground-water recharge rate is 14.8 in/yr (table 8).

At gaging station 01087000 on the Blackwater River, a base flow of 33.0 ft<sup>3</sup>/s on September 29, 1988, corresponded to a flow duration of 85 percent. The rate of seepage per basin area is 0.26 (ft<sup>3</sup>/s)/mi<sup>2</sup>. Seepage gains across stratified-drift aquifers were 1.75 (ft<sup>3</sup>/s)/mi<sup>2</sup> in western Andover, 1.0 (ft<sup>3</sup>/s)/mi<sup>2</sup> in eastern Andover, and 2.32 (ft<sup>3</sup>/s)/mi<sup>2</sup> in Salisbury.

The potential for additional aquifer yield is greatest in eastern Andover and in Salisbury along the Blackwater River. Ground-water storage in both areas must be high because of the large volumes of these aquifers. Aquifer yields in other parts of the basin are dependent on the amount of induced infiltration that occurs. Aquifer yield in eastern Andover was estimated by use of an analytical ground-water-flow model and is discussed in detail in the section "Estimation of Yields of Selected Aquifers."

### **Main Stem North Subbasin**

The Main Stem North subbasin contains one large aquifer (21.5 mi<sup>2</sup>) along the main stem of the Contoocook River and two smaller isolated aquifers. The large aquifer is a continuation of the same aquifer described in the Main Stem North-Central subbasin to the west (fig. 3). The aquifer extends into the Merrimack River valley to the east and follows a buried north-south-trending valley south of the present Contoocook River drainage.

The aquifers in the subbasin consist of sediments that were deposited during the final stages of glacial Lake Contoocook. The sediments include ice-con-

tact, deltaic, kame, esker, glaciolacustrine, and outwash deposits. Deltaic deposits are present at the confluence of north-south trending valleys (valleys that contain tributaries to the Contoocook River) with the main Contoocook River valley. Ice-contact and subglacial-valley train deposits are present mainly in the north-south trending valley that contains Dolf Brook in the northern part of Hopkinton (pl. 3). This valley was a former drainage outlet for glacial Lake Contoocook. Ice-contact deposits are also at a narrow constriction in the main valley just east of the town of Contoocook (pl. 3). Kame deposits are found along the eastern flank of the south-trending valley just south of the ice-contact deposits. Glaciolacustrine deposits are the principal deposits in the main Contoocook valley.

The stratigraphic sequences of stratified-drift aquifers in the subbasin include (1) coarse-grained sequences of sands and gravels in the north-south trending valleys that contain parts of the Blackwater River, Dolf Brook, and Hopkinton Reservoir; (2) interlayered coarse- and fine-grained sediments in the valley that contains Clement Pond; and (3) thick sequences of fine-grained glaciolacustrine silts and clays capped by sands deposited in outwash throughout the main Contoocook River valley in the Mast Yard area.

The maximum saturated thickness ranges from 80 to 100 ft in the Blackwater River valley in Webster, in the valley that contains the Hopkinton Reservoir, and at several locations in the main valley. Saturated thickness is less than 40 ft near areas where the course of the Contoocook River takes several sharp bends. The course of the Contoocook River seems to be partly controlled by the bedrock surface. Bedrock "knobs" divert the course of the Contoocook River into several acute meanders in Hopkinton (pl. 3). The estimated maximum transmissivity exceeds 8,000 ft<sup>2</sup>/d (approximately 25,800 ft<sup>2</sup>/d at HUW-31) in an esker just north of Hopkinton village at the Hopkinton municipal well. Estimated transmissivities exceed 4,000 ft<sup>2</sup>/d in an ice-contact deltaic deposit that underlies Hopkinton village, in areas of ice-contact deposits along the Contoocook River near the village of Contoocook, and also in an area east of Contoocook village in a delta entering the main valley from the Blackwater River. Estimated transmissivities are less than 1,000 ft<sup>2</sup>/d in areas consisting of fine-grained, glaciolacustrine deposits.

Municipal ground-water withdrawals (0.03 Mgal/d) are from the Hopkinton municipal well (HUW31). Ground-water withdrawals by domestic and commercial users, primarily bedrock aquifers,

are estimated at 0.27 Mgal/d (M.A. Horn, U.S. Geological Survey, written commun., 1991).

The ground-water-flow characteristics of the Main Stem North basin are similar to those in the Main Stem North-Central basin. Horizontal hydraulic gradients of ground water are moderate (less than 0.01 ft/ft); therefore, horizontal rates of flow are probably slow in the principal aquifer along the Contoocook River. Horizontal hydraulic gradients of ground water are generally steeper (by a factor of 3) in north-south-trending valleys and where streams enter the main valley aquifer than in west-east-trending valleys.

The maximum potential average annual recharge to the stratified-drift aquifer, 23 Mgal/d, was estimated from area-weighted calculations of aquifer size and a maximum potential average annual recharge rate of 21 in/yr. The effective ground-water recharge rate in the subbasin is 15.9 in/yr (table 8). Ground-water storage is high compared to the average transmissivity of the basin, which indicates additional aquifer yields are dependent on distribution of coarse-grained deposits rather than rates of ground-water recharge and storage.

Estimated seepage gain across the large aquifer is 1.82 ft<sup>3</sup>/s or (0.17 ft<sup>3</sup>/s)/mi<sup>2</sup> of aquifer, as indicated from base flow on September 29, 1988. The rate of seepage gain per aquifer size is moderate compared to other rates of gain in the entire Contoocook River basin. Seepage losses of 1.6 ft<sup>3</sup>/s along the Blackwater River valley in Webster are probably because of ground-water recharge from the Blackwater River to the aquifer at the headwaters of the valley. Base flow in Dolf Brook was low (0.01 ft<sup>3</sup>/s), possibly indicating a limit on additional yields from this part of the aquifer because of the small quantities of ground water in storage. Because of the presence of marsh areas upstream from the Dolf Brook station (pl. 1), however, some streamflow might be going into surface-water storage and, consequently, reducing streamflow from Dolf Brook. Additional yields might be possible near the aquifer by Kimball Pond because of the potential for surface-water infiltration.

The potential for additional aquifer yields in other parts of the basin is greatest in areas where estimated transmissivities exceed 2,000 ft<sup>2</sup>/d and in aquifers hydraulically connected with surface-water bodies or in contact with thick sequences of fine-grained sediments. The large volume of water in storage in fine-grained sequences of the aquifer along the main valley can potentially deliver large quantities of water through leakage across a contact with a transmissive zone of the aquifer.

## Estimation Of Aquifer Yield For Selected Aquifers

Aquifers with potential for ground-water development were evaluated by use of analytical simulations of hypothetical wells tapping these aquifers. Yields were estimated from hypothetical well performance. The estimates consider hydraulic properties of the aquifer (saturated thickness, transmissivity, and storage coefficient), characteristics of the hypothetical wells (the percentage of saturated thickness the screen intersects, the screen radius, and the pumping duration), effects of nearby pumped wells, and hydraulic boundaries (either impermeable or recharge). Aquifers were selected on the basis of the following criteria:

1. Transmissivity--greater than 4,000 ft<sup>2</sup>/d.
2. Saturated thickness--greater than 40 ft.
3. Aquifer materials--grain sizes suitable for installation of wells.
4. Recharge--presence of streams or lakes capable of supplying recharge by induced infiltration.
5. Geographic distribution--proximity to the more populated parts in the study area.

Four aquifers were selected (fig. 13). Other areas of stratified drift that may have potential for high yields were not analyzed because of inadequate information on subsurface material, proximity to potential sources of contamination, and the proximity to areas of large ground-water withdrawals. Areas of large ground-water withdrawals were avoided because the analytical model is not designed to precisely simulate withdrawals from existing production wells.

The method used to estimate the amount of ground water available at each of the four selected aquifers determines the amount of ground water potentially available over a long-term period (steady-state condition) and calculates, by use of a mathematical model, the maximum amount of water that can be pumped from the aquifer. The amount of water available during a long-term period (tens of years) is assumed to be equal to an estimate of direct infiltration recharge, which is 50 percent of average annual precipitation, plus the water available from induced infiltration of surface water. The amount of recharge from lateral flow of adjacent upland areas was not considered because of the potential variability of this source. The maximum pumpage from the aquifer, determined from an analytical

mathematical model, depends on hydraulic characteristics of the aquifer; number, location, construction of hypothetical wells, and hydraulic boundaries; and length of the period of negligible recharge. The estimated long-term yield is assumed to be equal to either the amount of water available during a long-term period or the maximum amount of pumpage determined from the mathematical model, whichever is less.

Computations of aquifer yield with the analytical-mathematical model are based on the Theis non-equilibrium equation (Theis, 1935), as modified by image-well theory (Ferris and others, 1962) to account for boundary conditions. These estimates take into account the effects of hydraulic boundaries of aquifers, of hydraulic properties of aquifers, well characteristics, and possible well interferences (Mazzaferro and others, 1979). Calculation of sustained yield from hypothetical wells involves the following four basic steps: (1) determination of aquifer and well characteristics, (2) determination of an initial discharge rate, (3) determination of total drawdown in wells from data obtained in steps 1 and 2, and (4) adjustment of discharge rate so that total drawdowns are at least 1 ft above the screened interval of each pumped well.

Hydraulic properties of the aquifer were determined by (1) estimating an average transmissivity from transmissivities shown on plates 3 and 4, (2) assuming an average storage coefficient (0.2) that is reasonable for unconfined sand and gravel aquifers and extended pumping periods (Mazzaferro and others, 1979), and (3) assuming an average ratio of vertical to horizontal hydraulic conductivity of 0.1. The saturated thickness of the aquifer was determined for each hypothetical well from data on plates 3 and 4.

Hypothetical wells were simulated with a screen radius of 1 ft and a screen length equal to 30 percent of the saturated thickness. Total available drawdown was limited to approximately 68 percent of the saturated thickness. Simulated wells were pumped for a 180 days--the time span approximately equal to the period of maximum evapotranspiration, when little or no recharge occurs.

The total drawdown at each pumped well is equal to drawdown produced by six possible components: (1) aquifer and well characteristics, (2) dewatering of the aquifer, (3) partial penetration of the aquifer by the pumped well, (4) well loss caused by flow into the screen, (5) nearby pumped wells, and (6) hydraulic boundaries.

Hydraulic boundaries that can be simulated with the Theis image-well model are line-source recharge

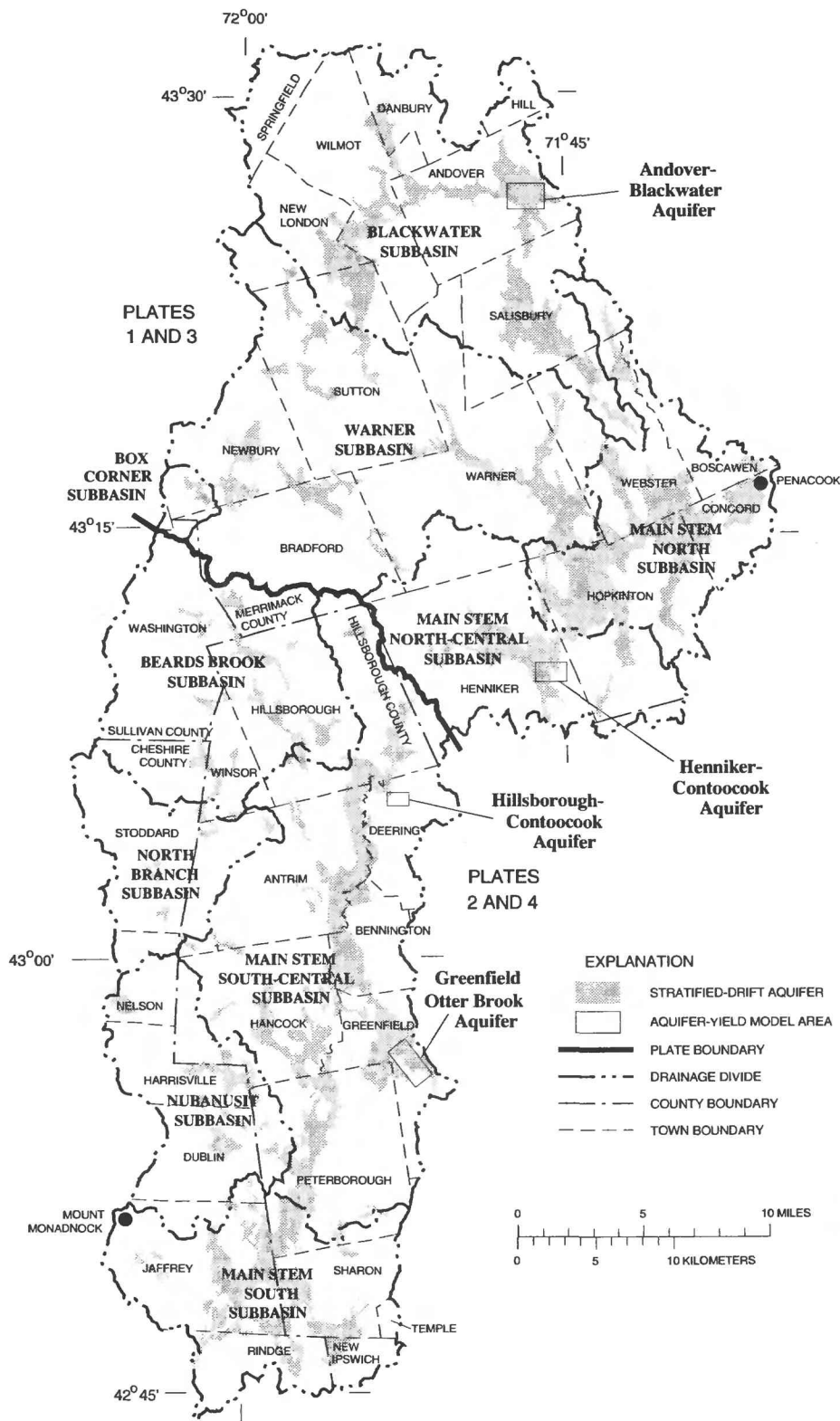


Figure 13.--Location of analytical models of aquifer yield.

boundaries, barrier (no-flow) boundaries, and open or infinite boundaries. Recharge boundaries represent unlimited sources of water that may be available from surface-water bodies such as streams and lakes. Because recharge boundaries function as an unlimited source of water, they restrict drawdown by the pumped well (fig. 14). Impermeable-barrier boundaries can be used to represent the contact between permeable stratified-drift aquifers and impermeable till or bedrock. Drawdown caused by a pumped well is amplified near a barrier boundary because there is no simulated flow across this boundary (fig. 15).

Recharge or discharge image wells (Ferris and others, 1962) are used to simulate the effects of hydraulic boundaries. In this particular model, hydraulic boundaries (recharge or barrier) must be idealized as straight lines that enclose a rectangular or square area.

The model determines the maximum discharge rate for a pumped well under the criteria that drawdowns are above the well screen. Because well screens are assumed to penetrate the lower 30 percent of saturated thickness, drawdowns are limited by the condition that aquifer desaturation at the pumped well does not exceed 68 percent of the saturated thickness. If drawdowns exceed the above criteria, an adjustment to the discharge is made and drawdowns are recalculated until the criteria is met. The computed aquifer yield--the optimum rate for the well(s)--depends on the hydraulic characteristics of the aquifer, hydraulic boundaries, and number of and distance between hypothetical wells.

In the model, hypothetical wells are generally in the thickest, most transmissive part of the aquifer. Recharge and barrier boundaries are idealized as vertical planes and are positioned to represent hydraulic conditions. The position of the recharge boundary is adjusted to compensate for the effective distance between a recharge boundary and a pumped well. The effective distance is the horizontal and vertical distance from the pumped well to the recharge boundary. For example, the position of the recharge boundary will coincide with a stream channel only in places where the stream fully penetrates the aquifer; however, because fully penetrating streams are rare, the effective distance between a recharge boundary and a pumped well is generally greater than the horizontal distance alone.

Aquifers were analyzed with two models to compare the effect of different boundary conditions and to provide a range of aquifer-yield estimates. In the first model, the potential of induced infiltration from surface-water bodies is ignored, and absence of in-

duced infiltration is assumed. In the second model, the adjacent surface-water body is assumed to be a recharge boundary. Pumpage estimated under these two extreme conditions represents minimum and maximum long-term yields.

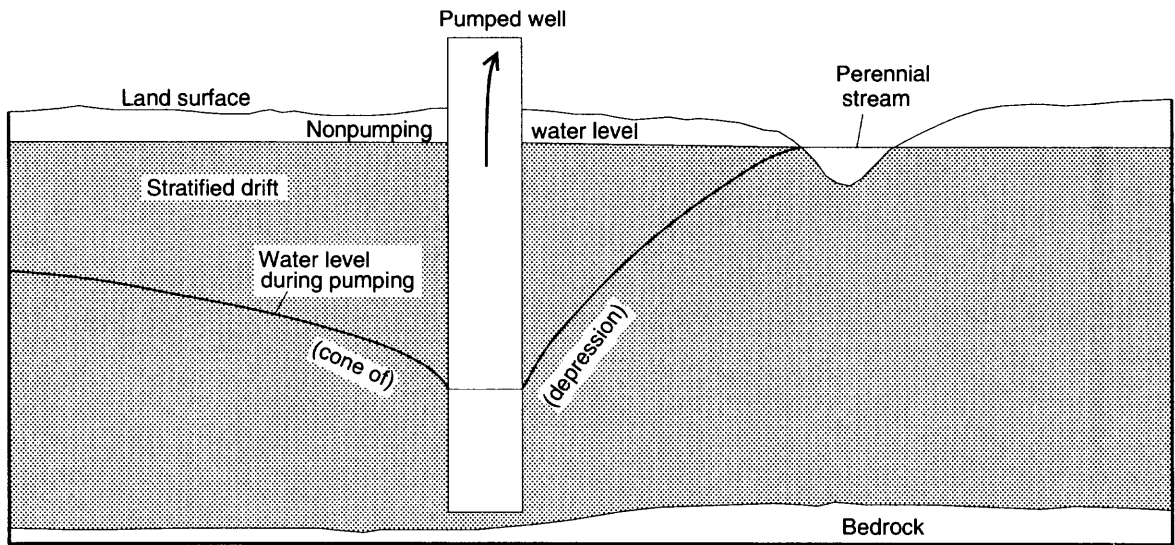
### Greenfield-Otter Brook Aquifer

The Greenfield-Otter Brook aquifer is in the Main Stem South-Central subbasin (fig. 13) in the town of Greenfield. The 4.35-mi<sup>2</sup> aquifer is most transmissive in the western part near Greenfield State Park. The analytical model covers 2.15 mi<sup>2</sup> and represents the most transmissive and the thickest sections of the aquifer north of Otter Brook (fig. 16). Two model simulations were done to evaluate boundary changes on aquifer yield.

The model is oriented with the predominant valley trend. Model boundaries correspond to (1) a till-bedrock contact at the northeastern boundary, (2) a till-bedrock contact at the southeastern boundary, (3) Otter Lake and parts of a preglacial valley filled with coarse-grained stratified-drift deposits at the northwestern boundary, and (4) generally thin and less transmissive stratified-drift deposits at the southwestern boundary. The northeastern, southwestern, and southeastern boundaries were barrier boundaries for both simulations. The northwestern boundary was simulated as a barrier (no-flow) boundary in one simulation and a recharge boundary in another simulation.

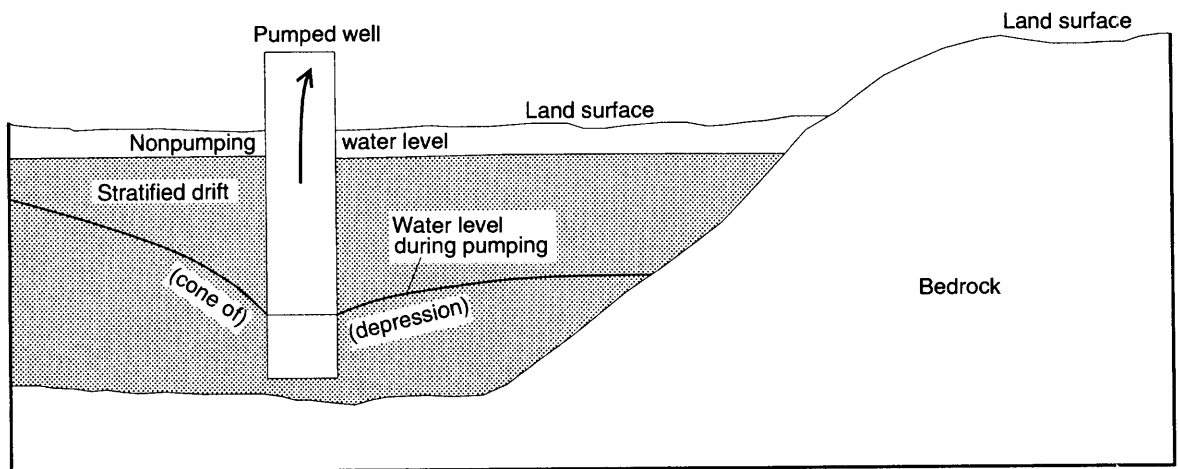
Five hypothetical wells were simulated at distances of 2,000 ft apart (fig. 16). Hypothetical wells were aligned in the same orientation as that of the model and the axis of a buried bedrock channel (northwest to southeast).

Aquifer yields predicted by the analytical model range from 1.69 to 1.85 Mgal/d. Simulated recharge from the northwestern model boundary, 0.16 Mgal/d, includes induced infiltration from Otter Lake and lateral ground-water flow from deposits in the preglacial valley. Aquifer-yield estimates from the model are considered conservative because additional yield may be obtained from the area of the aquifer not simulated below the southwestern model boundary. Information from base-flow measurements and estimates of areal precipitation recharge for the aquifer indicate that additional yields can be obtained. Base flow was 2.1 ft<sup>3</sup>/s or 1.35 Mgal/d at Otter Brook downstream from the aquifer on September 28, 1988 (Blackey and others, 1989). Average annual precipitation recharge is estimated to be 6.8 ft<sup>3</sup>/s (4.4 Mgal/d). Although average an-



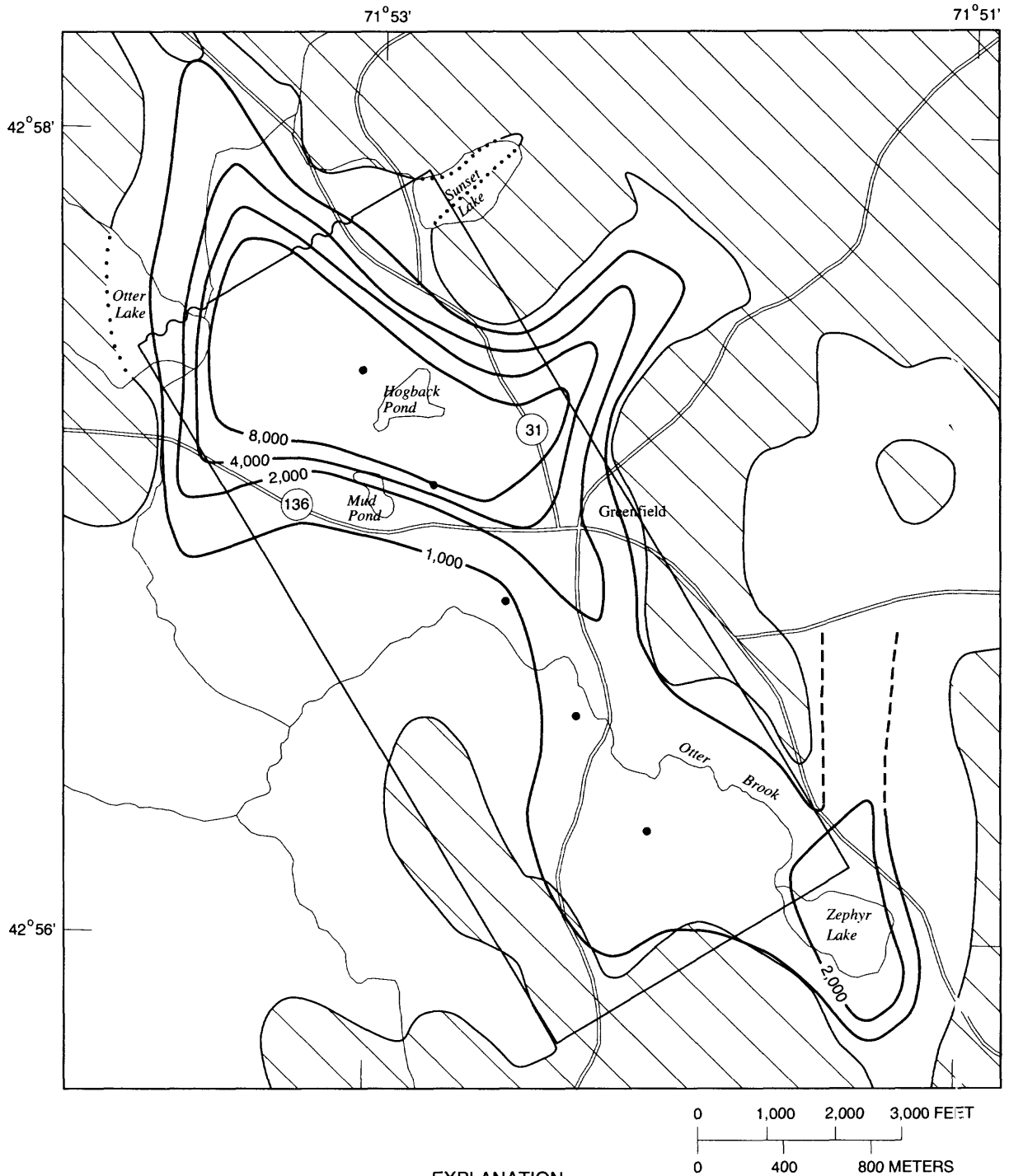
Not to scale

Figure 14.--Effects of a recharge boundary on the cone of depression of a pumped well.  
(Modified from Toppin, 1987, fig. 5.)



Not to scale

Figure 15.--Effects of a barrier boundary on the cone of depression of a pumped well.  
(Modified from Toppin, 1987, fig. 6.)



EXPLANATION







- |   |                           |   |   |
|---|---------------------------|---|---|
|  | STRATIFIED-DRIFT AQUIFER  |  | BARRIER BOUNDARY--<br>NO FLOW, simulation 1.<br>RECHARGE BOUNDARY, simulation 2.  |
|  | TILL AND BEDROCK          |  | 1,000 LINE OF EQUAL TRANSMISSIVITY--<br>Dashed where approximately located.<br>Interval, in feet squared per day, is variable |
|  | BARRIER BOUNDARY--No flow |  | HYPOTHETICAL PUMPED WELL  |

Figure 16.--Location of analytical model used to predict yield for the Greenfield-Otter Brook aquifer.

nual precipitation recharge is considerably greater than estimated aquifer yield predicted by the analytical model, results of simulations indicate that ground-water storage and seasonal variability of recharge limit aquifer yield.

### Hillsborough-Contoocook River Aquifer

The Hillsborough-Contoocook River aquifer is in the Main Stem South-Central subbasin (fig. 13). The aquifer is part of a long but relatively narrow north-south-trending aquifer that extends from the town of Greenfield to the town of Henniker. It is hydraulically connected to the Greenfield-Otter Brook aquifer to the south. The Hillsborough-Contoocook River aquifer, although hydraulically connected to this long and continuous aquifer, receives direct precipitation recharge from a small area (0.8 mi<sup>2</sup>) because of a ground-water divide about 4,000 ft south of the Contoocook River in Hillsborough (fig. 17 and pl. 3). However, potential for induced infiltration recharge from the Contoocook River is considerable. Base flow on September 29, 1988, at gaging station 01085000 was 106.4 ft<sup>3</sup>/s, which corresponds to a flow duration of 87 percent.

The model area covers approximately 0.3 mi<sup>2</sup>. Two model simulations were done to evaluate boundary effects on aquifer yield estimates. The model boundaries correspond with a till-bedrock contact at the western boundary and the Contoocook River at the southern and eastern boundaries. The western boundary is a barrier boundary. The southern boundary was simulated as an open or infinite boundary in one simulation and a recharge boundary in the other. If open boundaries are used, drawdowns are assumed to persist indefinitely until equilibrium is reached with no interference from hydraulic boundaries. An open boundary can provide more water than a no-flow boundary but less than a recharge boundary. The eastern boundary is a barrier and recharge boundary. The eastern boundary corresponds with a till-bedrock contact and part of the Contoocook River. The northern area is open. A hypothetical well was placed in the most transmissive part of the aquifer.

Aquifer-yield estimates from the analytical model range from 0.52 to 0.59 Mgal/d. Simulated recharge from induced infiltration of the Contoocook River is 0.06 Mgal/d. This represents less than 0.2 percent of available induced infiltration at a 90-percent flow duration at gaging station 01085000, 3 mi downstream. Aquifer yields from model simulations are less than the estimated average annual precipita-

tion recharge of 0.8 Mgal/d. Aquifer-yield analysis indicates that yields greater than 0.59 Mgal/d are highly probable if additional wells are used. The maximum yield available would be controlled by the amount of induced-infiltration recharge from the Contoocook River.

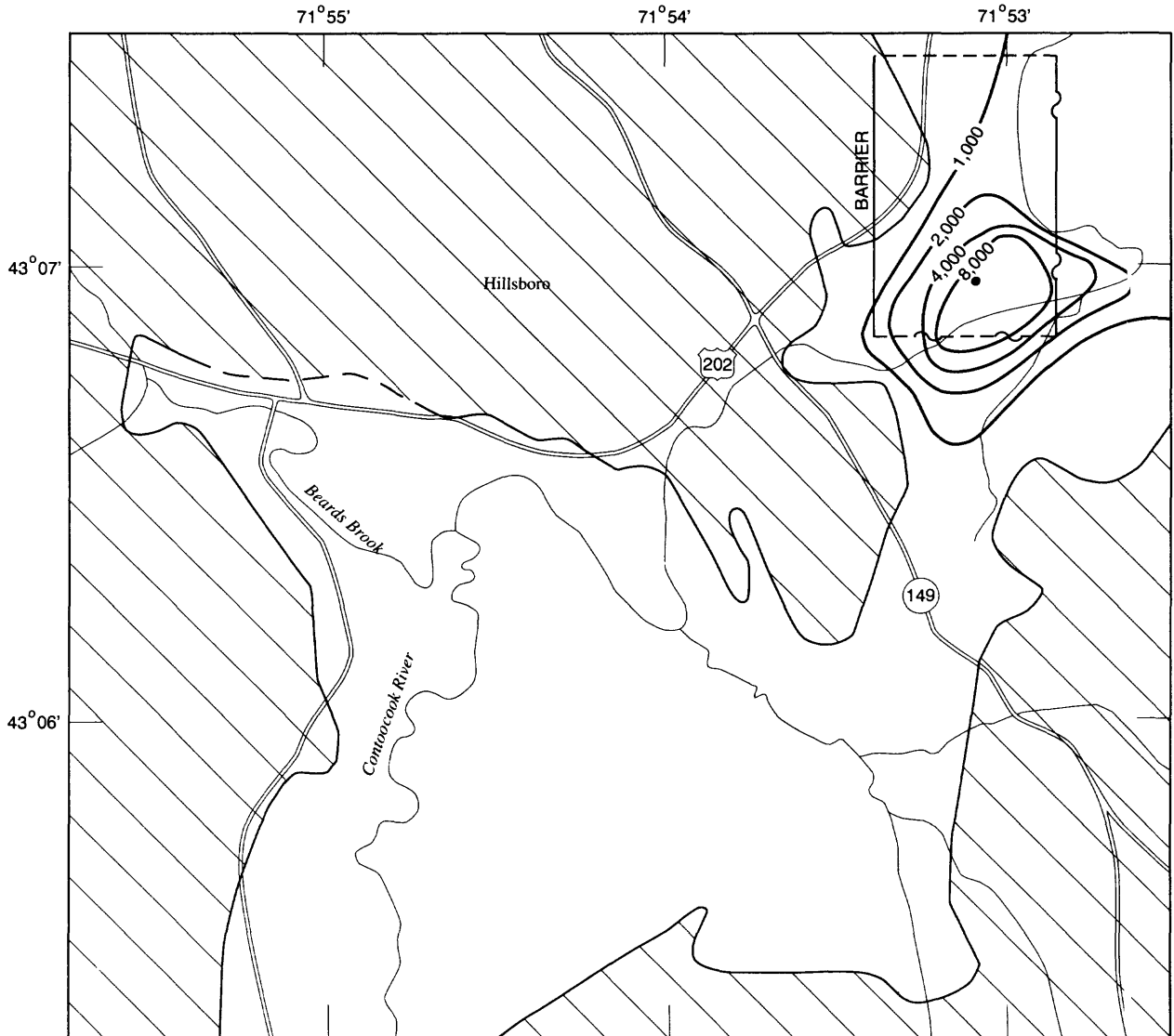
### Henniker-Contoocook River Aquifer

The Henniker-Contoocook River aquifer is in the Main Stem North-Central subbasin (fig. 13). The Henniker-Contoocook aquifer is at the western extent of a long, continuous aquifer that extends from Henniker to Concord along the mainstem of the Contoocook River (pls. 1 and 2). A 6.23-mi<sup>2</sup> area of the aquifer receives direct recharge from precipitation. The aquifer is drained by the Contoocook River; a base flow of 106.4 ft<sup>3</sup>/s, which corresponds to an 87-percent flow duration, was measured on September 29, 1990, at gaging station 01085000, about 1 mi downstream from the aquifer. Three municipal wells for the town of Henniker are in the western part of the aquifer and yield 0.52 Mgal/d (Joseph D'Amours, Town of Henniker, oral commun., 1991).

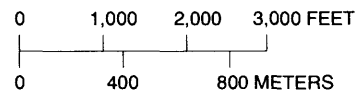
The 1.18-mi<sup>2</sup> model area is in the northeastern part of the aquifer (fig. 18). The model boundaries are defined by (1) a till-bedrock contact at the northern and eastern boundaries, (2) the Contoocook River at the southern boundary, and (3) a till-bedrock contact along 60 percent of the western boundary. A small part, less than 10 percent of the eastern and northern boundaries, corresponds to the northeasterly continuation of the aquifer. The northern and eastern boundaries were simulated as barrier boundaries. The western boundary was simulated as a barrier boundary in one simulation and as an open boundary in another simulation. The southern boundary was simulated as an open boundary in one simulation and as a recharge boundary in another simulation. Two hypothetical wells were simulated and positioned in the most transmissive parts of the aquifer. The three municipal wells were not simulated because they are outside of the model area.

Estimates of aquifer yield predicted by the analytical model range from 1.13 to 1.14 Mgal/d. Simulated recharge from induced infiltration of the Contoocook River is 0.06 ft<sup>3</sup>/s or 0.04 Mgal/d. This recharge represents a small percentage (less than 0.05 percent) of available base flow. Average annual recharge from precipitation is estimated at 6.3 Mgal/d. Aquifer-yield analyses indicate that yields





Base modified from U.S. Geological Survey 1:24,000  
 Hillsborough, N.H. 1987. Polyconic projection  
 Zone 19



**EXPLANATION**









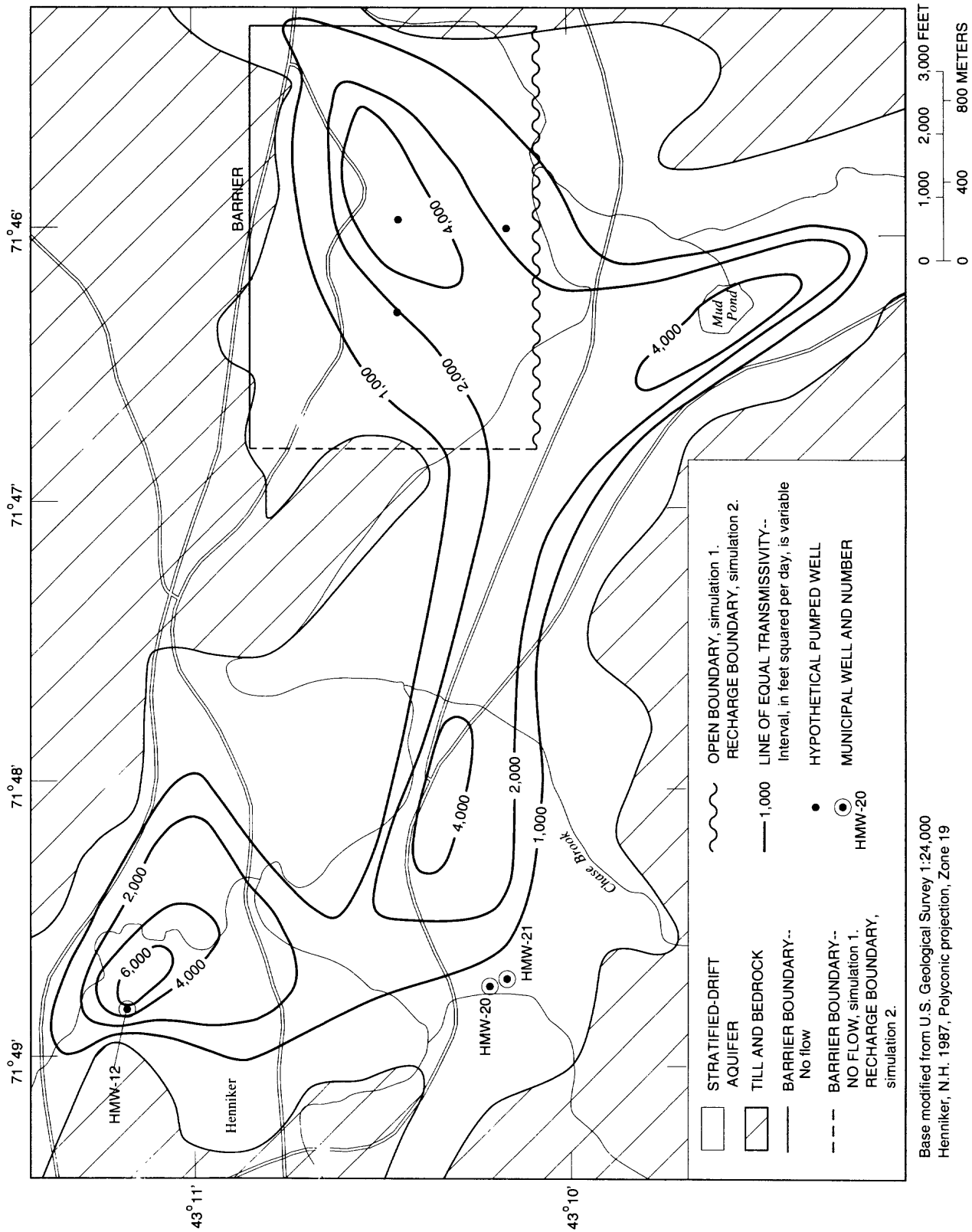
- |   |  |   |  |
|---|--|---|--|
|  | STRATIFIED-DRIFT AQUIFER   |  | OPEN BOUNDARY, simulation 1.<br>RECHARGE BOUNDARY, simulation 2.                       |
|  | TILL AND BEDROCK   |  | OPEN BOUNDARY  |
|  | BARRIER BOUNDARY--No flow  |  | 1,000 LINE OF EQUAL TRANSMISSIVITY--<br>Interval, in feet squared per day, is variable |
|  | BARRIER BOUNDARY--<br>NO FLOW, simulation 1.<br>RECHARGE BOUNDARY, simulation 2. |  | HYPOTHETICAL PUMPED WELL   |

Figure 17.--Location of analytical model used to predict yield for the Hillsborough-Contoocook River aquifer.



Base modified from U.S. Geological Survey 1:24,000  
 Henniker, N.H. 1987, Polyconic projection, Zone 19

Figure 18.--Location of analytical model used to predict yield for the Henniker-Contoocook River aquifer.

of more than 1.14 Mgal/d are probable and are dependent on the amount of induced infiltration from the Contoocook River. The three municipal-supply wells consume less than 5 percent of the average annual precipitation recharge to the aquifer, and withdrawals from these wells would not interfere with aquifer yield in the model area.

### Andover-Blackwater River Aquifer

The Andover-Blackwater River aquifer is in the Blackwater River subbasin in the town of Andover (fig. 13). It is part of a long and narrow aquifer originating in the town of Sutton (pls. 2 and 4). The analytical model (2.50 mi<sup>2</sup>) was constructed to simulate aquifer yield at the widest part of the aquifer in eastern Andover. The aquifer in eastern Andover is 1.7 mi wide and elliptical in shape (figs. 13 and 19). The total aquifer area that receives direct recharge from precipitation is estimated at 3.56 mi<sup>2</sup>. The aquifer is drained to the south by Mountain Brook and the southeastern-flowing Blackwater River at the southern boundary. Base flow on October 3, 1988, in this area ranged from 1 to 2 ft<sup>3</sup>/s along Mountain Brook and from 12.2 to 17.8 ft<sup>3</sup>/s along the Blackwater River. Seepage gain across the aquifer was 1.0 (ft<sup>3</sup>/s)/mi<sup>2</sup>.

The model (fig. 18) is bounded to the east, west, and north by a till-bedrock contact. The model is bounded to the south by the Blackwater River valley, which contains stratified drift. All boundaries, except the southern boundary, were kept as barrier boundaries. The southern boundary was simulated as a barrier boundary in one simulation and as a recharge boundary in another. Small sections of the western and northern boundaries (generally less than 30 percent of the section) are intersected by stratified-drift deposits in river valleys. Lateral flow is assumed to be negligible from these areas because cross-sectional width is small relative to the length of the model boundary and estimated transmissivities are generally less than 2,000 ft<sup>2</sup>/d. Three hypothetical wells were simulated 2,000 ft apart across the valley. Wells were positioned where the aquifer is most transmissive.

Aquifer yields predicted by the analytical model range from 1.34 to 1.56 Mgal/d. Recharge from induced infiltration of the Blackwater River is 0.14 ft<sup>3</sup>/s or 0.09 Mgal/d, which is a small percentage (10 percent) of available base flow from the Blackwater River at 95-percent flow duration. Average annual precipitation recharge is estimated to be 3.6 Mgal/d. Predicted aquifer yields of more than 1.56

Mgal/d are probable and depend on the amount of induced infiltration from the Blackwater River.

## WATER QUALITY

Water in the stratified-drift aquifers of the Contoocook River basin is generally suitable for drinking and other domestic uses. The background water quality of the stratified-drift aquifers in the study area was determined from (1) analyses of ground-water samples collected from 11 USGS observation wells during September-November 1989 and analyzed for major cations and anions, dissolved trace metals, and selected organic compounds including volatile organics; (2) water-quality samples collected by New Hampshire Water Supply and Pollution Control Commission (NHWSPPCC) from 10 public-supply wells and analyzed for major cations and anions and total recoverable trace metals; and (3) comparison of surface-water-quality classification of streams and lakes in the Contoocook River basin from information provided by NHWSPPCC.

The 11 USGS observation wells were selected to provide maximum geographic distribution of ground-water samples collected within stratified-drift aquifers. These samples reflect the geochemical properties of the aquifer over a small area around the well. During the sampling phase of this study, sites of known ground-water contamination were avoided. Seven sites in the study area (fig. 20) are being monitored by the USEPA under the Federal Resource Conservation and Recovery Act (RCRA). These contaminated sites are in the towns of Jaffrey, Peterborough, Hillsborough, and Hopkinton.

Ground-water samples collected at public-supply wells by NHWSPPCC were distributed throughout some of the most productive stratified-drift aquifers in the basin. These samples reflect the average geochemical properties of the aquifer over a relatively large volume--a volume one to two orders of magnitude larger than the volume of samples from the USGS observation wells.

The surface-water quality of streams and lakes in contact with stratified-drift aquifers can affect the quality of ground water if aquifers are recharged by surface water. For this reason, classification by NHWSPPCC (1973, 1990a) was used to evaluate potential surface-water-quality effects on ground-water quality.

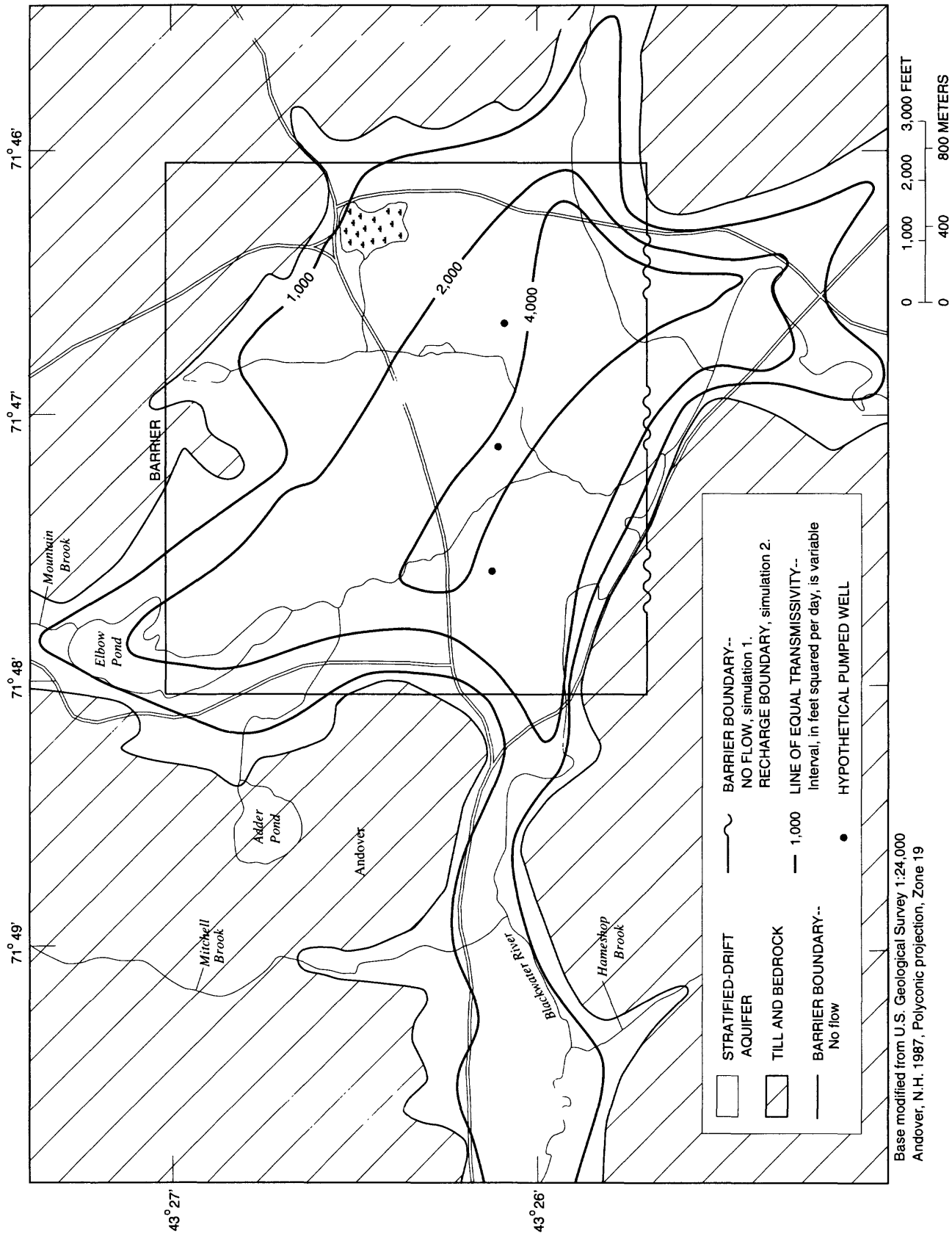


Figure 19.--Location of analytical model used to predict yield for the Andover-Blackwater River aquifer.

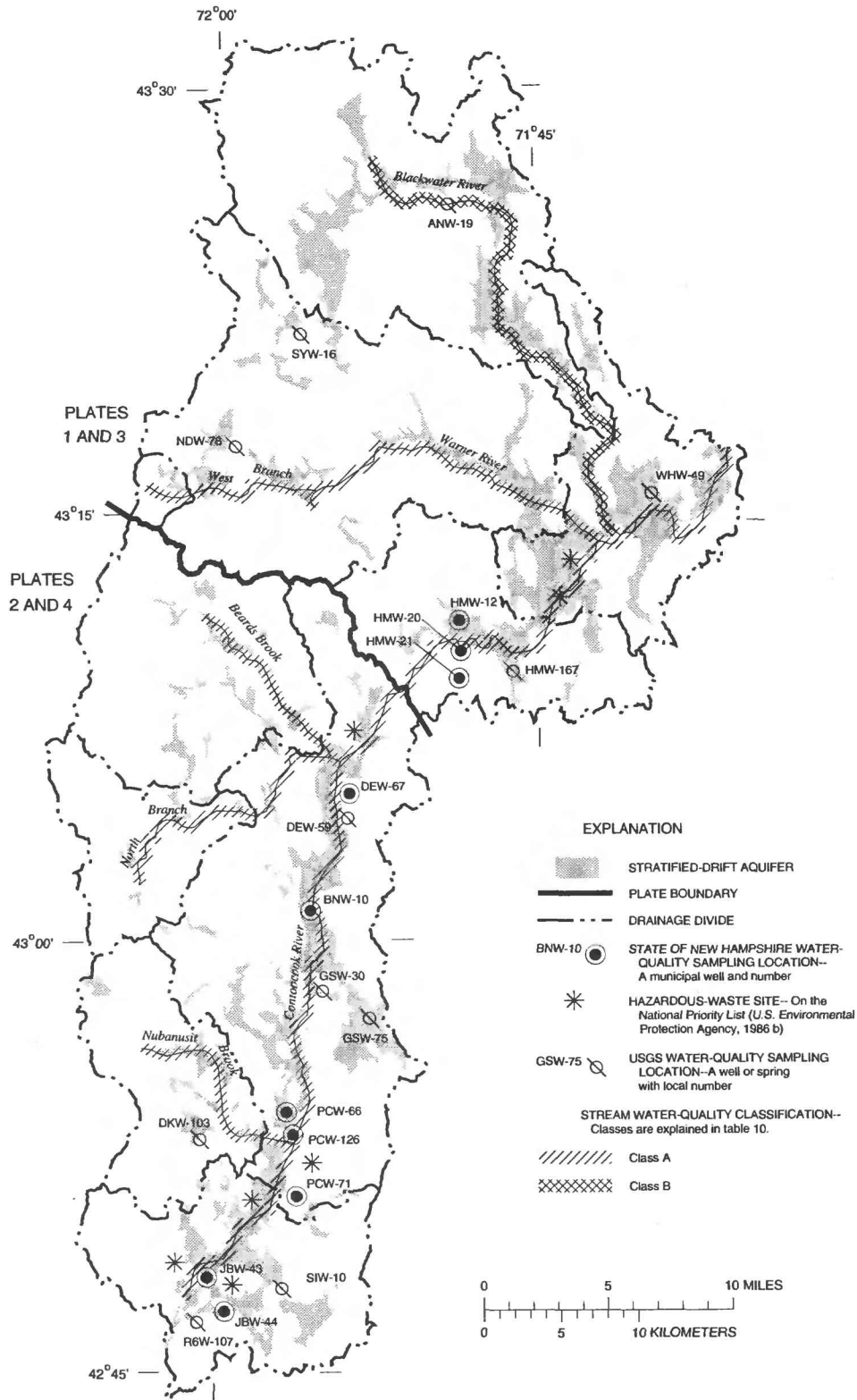


Figure 20.--Location of U.S. Geological Survey water-quality sampling wells, state of New Hampshire water-quality sampling wells, stream water-quality classification, and Resource Conservation and Recovery Act sites.

## Surface Water

The general water quality of streams in the Contoocook River basin was evaluated using data calculated by NHWSPCC (1990b). Surface-water quality is characterized on the basis of class designations (table 10). Class A waters are of the highest quality and are considered potentially acceptable for water-supply use after disinfection. Class B waters are of the second highest quality and are considered to be acceptable for bathing and other recreational purposes (primary contact) and, after adequate treatment, for drinking water supplies. Class C waters are considered potentially acceptable for recreational boating, fishing, or for industrial water-supply uses. All surface waters in New Hampshire are eventually expected to attain a Class B status.

Much of the Contoocook River and its tributaries, including the Nubanusit, North Branch, Beards Brook, and the Warner River, are of suitable water quality to be designated as Class B (fig. 20). The Blackwater River is designated as Class A, the highest standard of surface-water quality.

The primary reasons for violations of surface-water quality regulations are because levels of bacteria exceeded the recommended values and concentrations of dissolved oxygen were less than the NHWSPCC recommended level of 6 mg/L. This condition has occurred along short reaches of the Contoocook River in Jaffrey and Peterborough, the North Branch in Antrim, the Warner River in Bradford, and along the lower reaches of the Blackwater River in Hopkinton. Along a short reach of the Contoocook River in Hopkinton and in Henniker, surface water had zinc concentrations that exceeded the USEPA recommended levels for protection of aquatic life (fig. 20).

Stratified-drift aquifers in contact with waters failing to meet recommended water quality levels for human consumption are potentially at risk of contamination from degraded surface water if natural or induced infiltration of degraded surface water were to occur. The amount of ground water contaminated by degraded surface water would depend on the relative proportion of natural or induced infiltration and native ground water. Ground-water withdrawals near surface-waters, delineated on figure 20 as randomly failing to

meet water qualifications, could be susceptible to contamination from infiltration of surface waters.

## Ground Water

Ground-water samples from 11 USGS observation wells were collected during fall 1989 according to methods described by Fishman and Freidman (1989). Wells were pumped until at least three times the volume of water in the well was evacuated and until the temperature, specific conductance, and dissolved oxygen stabilized. These procedures ensured that samples were derived from the aquifer and not from stagnant water in the well casing. Ground-water samples from 10 public-supply wells were collected in the early to mid-1980's by NHWSPCC and analyzed at the New Hampshire State laboratories. Water samples were typically not collected at the well but after the water had traveled through the water-supply distribution system. As a result, these samples may reflect some component of post-indigenous chemical reactions.

Results of analyses by USGS and NHWSPCC are summarized and compared to USEPA's primary and secondary drinking-water regulations (1988a,b) in table 11. A quantitative analysis of trace metal is difficult to determine because the USGS data are reported as dissolved species and the NHWSPCC data are reported as a total recoverable species. Analytical differences of non-metals (major cations and anions and selected constituents such as nitrate and phosphate) should be less since they are largely in a dissolved state. A qualitative summary, however, is useful to identify potential problem areas. Results of analysis of water samples collected by USGS are given in Appendix C. Results of analysis of water samples collected by NHWSPCC are given in Appendix D.

Water from the stratified-drift aquifers was generally suitable for drinking and for other domestic and commercial uses with the following exceptions:

1. Water from four wells had sodium concentrations above the Health Advisory limit of 20  $\mu\text{g/L}$  (U.S. Environmental Protection Agency, 1988a).
2. Water from five wells had total iron concentrations above the USEPA secondary maximum contaminant level<sup>4</sup> (SMCL) of 300  $\mu\text{g/L}$ .

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<sup>4</sup> SMCL (secondary maximum contaminant level) is a nonenforceable regulation that affects the aesthetic quality of drinking water. At high concentrations or values, health implications as well as aesthetic degradation may exist. These are intended as guidelines for the States.

Table 10.--Recommended-use classifications and water-quality standards for New Hampshire surface water<sup>1</sup>

| Characteristic or constituent              | Class A   | Class B   | Class C   |
|--|---|---|---|
| Sticks, odors, and surface-floating solids | None unless naturally occurring.                          | No unreasonable kinds, quantities, or duration unless naturally occurring.  | No unreasonable kinds, quantities, or duration unless naturally occurring.  |
| Temperature                                | No artificial rise.                                       | NHF&GD, NEIWPCC, or NTAC-DI <sup>3</sup> requirements-- whichever provides most effective control.                        | NHF&GD, NEIWPCC, or NTAC-DI <sup>3</sup> requirements-- whichever provides most effective control.                        |
| Phosphorus                                 | None except as naturally occurs.                          | None in such concentrations <sup>1</sup> that would impair any usages assigned to this class, unless naturally occurring. | None in such concentrations <sup>1</sup> that would impair any usages assigned to this class, unless naturally occurring. |
| Gross beta radio-activity                  | Not greater than 1,000 picocuries <sup>5</sup> per liter. | Not greater than 1,000 picocuries <sup>5</sup> per liter.   | Not greater than 1,000 picocuries <sup>5</sup> per liter.   |
| Strontium-90                               | Not greater than 10 picocuries <sup>5</sup> per liter.    | Not greater than 10 picocuries <sup>5</sup> per liter.  | Not greater than 10 picocuries <sup>5</sup> per liter.  |
| Radium-226                                 | Not greater than 3 picocuries <sup>5</sup> per liter.     | Not greater than 3 picocuries <sup>5</sup> per liter.   | Not greater than 3 picocuries <sup>5</sup> per liter.   |
| Phenol                                     | Not to exceed 0.001 ppm <sup>2</sup>                      | Not to exceed 0.001 ppm <sup>2</sup>  | Not to exceed 0.002 ppm <sup>2</sup>  |

<sup>1</sup> New Hampshire Water Supply and Pollution Control Commission, 1973. The waters in each classification shall satisfy all provisions of all lower classifications. These standards shall apply to all times except during periods when the receiving stream flows are less than the minimum average 10-day flow that occurs once in 20 years.

<sup>2</sup> ppm is parts per million.

<sup>3</sup> NHF&GD--New Hampshire Fish and Game Department.

NEIWPCC--New England Interstate Water Pollution Control Commission.

NTAC-DI--National Technical Advisory Committee, Department of the Interior.

<sup>4</sup> Generally less than 0.015 ppm.

<sup>5</sup> One picocurie is one trillionth of a curie, a standard measure of radioactivity.

<sup>6</sup> New Hampshire Department of Environmental Services, Water Supply and Pollution Control Division, 1990; State Water Quality Regulations, p 34.

Table 11.--Summary of results of water-quality analyses

[A "less than" symbol (<) precedes many of the values whenever the concentration was below detection limit; °C, degrees Celsius; μS/cm, microsiemens per centimeter at 25 degrees Celsius; mg/L, milligrams per liter; μg/L, micrograms per liter; --, no data; USGS, U.S. Geological Survey; N.H., New Hampshire]

| Property or constituent  | SMCL <sup>1</sup> | MCL <sup>2</sup> | Number of samples above SMCL/MCL |          | USGS <sup>3</sup> |          | State of N.H. <sup>4</sup> |          | Detection limit |               |
|--|-------------------|------------------|----------------------------------|----------|-------------------|----------|----------------------------|----------|-----------------|---------------|
|  |                   |                  | Maxi-mum                         | Mini-mum | Maxi-mum          | Mini-mum | Maxi-mum                   | Mini-mum | USGS            | State of N.H. |
| Specific conductance (μS/cm at 25 °C)  | --                | --               | 138                              | 23       | 170               | 8        | --                         | --       | --              | --            |
| Solids, sum of the dissolved constituents                                    | 500               | --               | 151                              | 16.0     | --                | --       | --                         | --       | --              | --            |
| Chloride, dissolved (mg/L as Cl)   | 250               | --               | 46.0                             | .500     | 30.0              | <10      | --                         | 10       | --              | 10            |
| Sodium, dissolved (mg/L as Na)   | 20 - 250          | --               | 25.0                             | 1.40     | 14.0              | 3.0      | --                         | --       | --              | --            |
| pH (standard units) (lab)  | 6.5 - 8.5         | --               | 6.9                              | 5.7      | 9.7               | 5.9      | --                         | --       | --              | --            |
| Oxygen, dissolved (mg/L)   | --                | --               | 9.50                             | 1.50     | --                | --       | --                         | --       | --              | --            |
| Alkalinity (mg/L as CaCO <sub>3</sub> )                                      | --                | --               | 65.0                             | 5.0      | 41.0              | 7.5      | --                         | --       | --              | --            |
| Hardness total (mg/L as CaCO <sub>3</sub> )                                  | --                | --               | --                               | --       | 52.0              | 6.05     | --                         | 0.1      | --              | --            |
| Calcium, dissolved (mg/L as Ca)  | --                | --               | 18.0                             | 1.00     | --                | --       | --                         | --       | --              | --            |
| Magnesium, dissolved (mg/L as Mg)  | --                | --               | 3.70                             | .35      | --                | --       | --                         | --       | --              | --            |
| Carbon, organic, dissolved (mg/L as C)                                       | --                | --               | 4.60                             | .2       | --                | --       | --                         | --       | --              | --            |
| Nitrogen, nitrite, dissolved (mg/L as N)                                     | --                | --               | <.0100                           | --       | --                | --       | --                         | .01      | --              | --            |
| Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> , total or dissolved (mg/L as N) | --                | 10               | 2.40                             | <.10     | .3                | <.25     | --                         | .05      | --              | .05           |
| Nitrogen, ammonia, dissolved (mg/L as N)                                     | --                | --               | .26                              | <.010    | --                | --       | --                         | .01      | --              | --            |
| Nitrogen, ammonia + organic, dissolved (mg/L as N)                           | --                | --               | .500                             | <.200    | --                | --       | --                         | .2       | --              | --            |
| Phosphorous, dissolved (mg/L as P)   | --                | --               | <.010                            | <.010    | --                | --       | --                         | .01      | --              | --            |
| Potassium, dissolved (mg/L as K)   | --                | --               | 6.40                             | .700     | --                | --       | --                         | --       | --              | --            |
| Sulfate, dissolved (mg/L as SO <sub>4</sub> )                                | 250               | --               | 26.0                             | <1.00    | 7.8               | 2.6      | --                         | 1        | --              | --            |
| Fluoride, dissolved (mg/L as F)  | 2                 | 4                | <.10                             | --       | .14               | .09      | --                         | .1       | --              | .1            |
| Silica, dissolved (mg/L as SiO <sub>2</sub> )                                | --                | --               | 18.0                             | .160     | --                | --       | --                         | --       | --              | --            |
| Aluminum, total or dissolved (μg/L as Al)                                    | 50                | --               | 90.0                             | <10.0    | 90                | 30       | --                         | 10       | --              | 10            |
| Arsenic, total or dissolved (μg/L as As)                                     | --                | 50               | 2.0                              | <1.00    | <5                | <5       | --                         | 1        | --              | 5             |
| Barium, total or dissolved (μg/L as Ba)                                      | --                | 2,000            | 74                               | <2.00    | <500              | <100     | --                         | 2        | --              | 100           |
| Beryllium, total or dissolved (μg/L as Be)                                   | --                | 4                | 1.70                             | <.500    | --                | --       | --                         | .5       | --              | --            |



Table 11.--Summary of results of water-quality analyses--Continued

| Property or constituent                                 | SMCL <sup>1</sup> | MCL <sup>2</sup> | Number of samples above SMCL/MCL | USGS <sup>3</sup> |         | State of N.H. <sup>4</sup> |         | Detection limit |               |
|---|-------------------|------------------|----------------------------------|-------------------|---------|----------------------------|---------|-----------------|---------------|
|   |                   |                  |                                  | Maximum           | Minimum | Maximum                    | Minimum | USGS            | State of N.H. |
|   |                   |                  |                                  |                   |         |                            |         |                 |               |
| Cadmium, total or dissolved ( $\mu\text{g/L}$ as Cd)    | --                | 5                | 0                                | 1                 | <1.00   | <5.0                       | <1.0    | 1               | 1             |
| Chromium, total or dissolved ( $\mu\text{g/L}$ as Cr)   | --                | 50               | 0                                | --                | --      | <30                        | <10     | --              | 10            |
| Cobalt, total or dissolved ( $\mu\text{g/L}$ as Co)     | --                | --               | --                               | 8.00              | <3.00   | --                         | --      | 3               | --            |
| Copper, total or dissolved ( $\mu\text{g/L}$ as Cu)     | 1,000             | --               | 0                                | <10               | --      | 200                        | <100    | 10              | 100           |
| Iron, total recoverable only ( $\mu\text{g/L}$ as Fe)   | 300               | --               | 5                                | 7,100             | 20.0    | 300                        | <100    | --              | 100           |
| Iron, dissolved ( $\mu\text{g/L}$ as Fe)                | 300               | --               | 2                                | 3,600             | <3.0    | --                         | --      | --              | --            |
| Lead, total or dissolved ( $\mu\text{g/L}$ as Pb)       | --                | 50               | 1                                | 20                | <10     | 55                         | <5      | 10              | 5             |
| Lithium, total or dissolved ( $\mu\text{g/L}$ as Li)    | --                | --               | --                               | 30                | <4.00   | --                         | --      | 4               | --            |
| Manganese, total or dissolved ( $\mu\text{g/L}$ as Mn)  | 50                | --               | 7                                | 280               | 2.00    | 130                        | <10     | --              | 10            |
| Molybdenum, total or dissolved ( $\mu\text{g/L}$ as Mo) | --                | --               | --                               | 20.0              | <10.0   | --                         | --      | 10              | --            |
| Mercury, total or dissolved ( $\mu\text{g/L}$ as Hg)    | --                | 2                | 0                                | --                | --      | <1                         | <1      | --              | 1             |
| Nickel, total or dissolved ( $\mu\text{g/L}$ as Ni)     | --                | --               | --                               | 3.0               | <1.00   | <100                       | <30.0   | 1               | 100           |
| Silver, total or dissolved ( $\mu\text{g/L}$ as Ag)     | --                | 50               | 0                                | --                | --      | <30.0                      | <1.0    | --              | 1             |
| Selenium, total or dissolved ( $\mu\text{g/L}$ as Se)   | --                | 10               | 0                                | --                | --      | 5.0                        | <5.0    | --              | 5             |
| Strontium, total or dissolved ( $\mu\text{g/L}$ as Sr)  | --                | --               | --                               | 120               | 10.0    | --                         | --      | --              | --            |
| Vandium, total or dissolved ( $\mu\text{g/L}$ as V)     | --                | --               | --                               | <6.00             | --      | --                         | --      | 6               | --            |
| Zinc, total or dissolved ( $\mu\text{g/L}$ as Zn)       | 5,000             | --               | 0                                | 24                | <3.00   | 140                        | <30.0   | 3               | 3             |

<sup>1</sup> SMCL (secondary maximum concentration level) is a nonenforceable, aesthetically based maximum level (concentration) for contaminants in public drinking-water supplies as defined in the national primary and secondary drinking-water regulations established by the U.S. Environmental Protection Agency (1992).

<sup>2</sup> MCL (maximum contaminant level) is an enforceable, health-based maximum level (concentration) for contaminants in public drinking-water supplies as defined in the national primary and secondary drinking-water regulations established by the U.S. Environmental Protection Agency (1992).

<sup>3</sup> Trace-metal concentrations of 11 samples are reported as dissolved unless otherwise noted.

<sup>4</sup> Trace-metal concentrations of 10 samples are reported as total unless otherwise noted.

<sup>5</sup> MCL for chromium is  $50 \mu\text{g/L}$   $\text{Cr}^{+6}$  or  $50 \mu\text{g/L}$   $\text{Cr}^{+3}$ .

3. One-third of all the water samples had manganese concentrations above the USEPA SMCL of 50  $\mu\text{g/L}$ .

The pH of water is a measure of the water's hydrogen-ion concentration. Water having a pH of 7 is neutral, less than 7 is acidic, and greater than 7 is alkaline. The pH of most ground water in the United States ranges from about 6.0 to 8.5 (Hem, 1985). The pH in stratified-drift aquifers sampled across New Hampshire (1984-89) ranges from 5.26 to 8.48; the median pH is 6.12 (Moore and others, 1994). The range of pH for this study was from 5.40 to 9.7; the median was 6.40. The most acidic water was from well GSW-30 in the town of Greenfield, and the most alkaline or basic water was from well PCW-126 in the town of Peterborough. Water from nine wells had pH values less than the minimum value (6.0) established as the SMCL by the USEPA (1986a). The pH of water from USGS observation wells averaged 1 to 2 units less than the pH of water from public-supply wells (Appendixes A and B).

The alkalinity of a solution is defined as the capacity for solutes in water to react with and neutralize acid (Hem, 1985). The principal source of ambient alkalinity is dissolved calcium carbonate ( $\text{CaCO}_3$ ). The buffering capacity of waters from stratified-drift aquifers is low. Alkalinity of water samples ranged from 5 mg/L (as  $\text{CaCO}_3$ ) at well RGW-107 to 65 mg/L (as  $\text{CaCO}_3$ ) at well ANW-19; the median was 12.5 mg/L.

Specific conductance--a measure of the ability of water to conduct electrical current--is an indication of the concentration of ions in solution or of dissolved solids. High specific conductance indicates that the concentration of one or more ions in solution is high. Specific conductance of water samples ranged from 8  $\mu\text{S/cm}$  (microsiemens per centimeter at 25 degrees Celsius) at well HMW-21 to 138  $\mu\text{S/cm}$  at well ANW-19; the median was 67.2  $\mu\text{S/cm}$ . No water samples exceeded the recommended limit for drinking water (500  $\mu\text{S/cm}$ ) established by the NHWSPCC (1984).

The equilibrium concentration of dissolved oxygen in water that is in contact with air is a function of temperature and pressure and the concentration of other solutes (Hem, 1985, p. 155). Oxygen is supplied to ground water through recharge and by movement of air through unsaturated material above the water table. Dissolved-oxygen concentrations in samples from USGS observation wells ranged from 1.50 to 9.70 mg/L; the median was 5.95 mg/L. Data were not available for public-supply wells.

Dissolved-solids concentration in water from 11 USGS observation wells ranged from 16 to 151 mg/L; the median was of 27 mg/L. Data were not available for public-supply wells. The concentrations of dissolved solids in all water samples were less than the recommended limit for drinking water (500 mg/L) established by the NHWSPCC (written commun., 1987). The low concentration of dissolved solids in stratified-drift aquifers is attributed to the insolubility of the aquifer matrix and the short residence time of water (Morrissey and Regan, 1987). Water from well HMW-167 had the highest concentration of dissolved solids (151 mg/L) and the highest specific conductance (237  $\mu\text{S/cm}$ ).

Sodium and chloride can be introduced into ground water from natural and manmade sources. The principal source of natural chloride is atmospheric precipitation and dry fallout, which contribute about 0.5 mg/L to the New Hampshire land surface (Hall, 1975). The major manmade source of sodium and chloride is salt from road deicing practices. Four samples had sodium concentrations that exceeded the recommended Health Advisory Limit of 20 mg/L; the median for all water samples was 6.0 mg/L. None of the samples had chloride concentrations that exceeded the SMCL (250 mg/L) established by the USEPA (1988b); the median was 10 mg/L.

Nitrogen is present in water as nitrate or nitrite anions, as ammonium cations, and in an intermediate oxidation state as a part of organic solutes (Hem, 1985, p. 124). The predominant form of inorganic nitrogen in water is nitrate, from the oxidation of nitrogenous compounds. Excess nitrate in ground water can originate from fertilizer application, leachate from sewage systems, or wastes from farm animals. Nitrate is weakly adsorbed onto sediments during the transport of water through soils. Excessive concentrations of nitrate (greater than 10 mg/L as nitrogen or greater than 44 mg/L as nitrate) in drinking water may cause methemoglobinemia in small children (Hem, 1985, p. 124). Nitrogen concentrations as nitrate and nitrite in 21 water samples ranged from below the detection level of 0.05 mg/L to a maximum of 2.40 mg/L. None of the samples exceeded the U.S. Environmental Protection Agency drinking standard of 10 mg/L for nitrogen.

The most common sulfur species under oxidizing conditions is sulfate. The SMCL for sulfate ( $\text{SO}_4^{2-}$ ) in drinking water is 250 mg/L (U.S. Environmental Protection Agency, 1988b). Oxidation of sulfide ores, gypsum, and anhydrite are sources of sulfate; gypsum and anhydrite are generally not present in stratified-drift aquifers. Under reducing conditions, sulfate can be reduced by anaerobic bacteria

to hydrogen sulfide (H<sub>2</sub>S) gas, which can be detected by smell at concentrations of only a few tenths of a milligram per liter. Sulfate concentrations in all the water samples ranged from less than 1 to 26 mg/L; the median was 5.0 mg/L.

Iron and manganese are common elements in minerals of bedrock and stratified drift in New Hampshire and are common dissolved and suspended solids in ground water of these deposits (Morrissey and Regan, 1987). Concentrations of iron and manganese above SMCL's were the most common water-quality problems found during this study. Five water samples had total iron concentrations (dissolved and suspended) above the SMCL of 300 µg/L, and eight samples had dissolved-manganese concentrations above the SMCL of 50 µg/L (U.S. Environmental Protection Agency, 1988b). The highest total iron concentrations were measured from water samples at wells--7,100 µg/L at SIW-10, 3,900 µg/L at NDW-78, and 1,500 µg/L at WHW-49. Water samples from well SIW-10 had a low concentration of dissolved iron although total iron concentrations were high. This well (SIW-10) is near a swamp where the water has a high concentration of suspended iron.

Aluminum, the third most abundant element in the Earth's crust, rarely is present in water at concentrations greater than a few hundredths or a few tenths of a milligram per liter (Hem, 1985, p. 73). All water samples had concentrations less than 100 µg/L. Water from four wells had aluminum concentrations that exceeded the SMCL of 50 µg/L (U.S. Environmental Protection Agency, 1992) with one additional possibility, well JBW-43 (Appendix D).

Arsenic, although found in water from bedrock in many parts of New Hampshire, was not found in elevated concentrations in the water of stratified-drift aquifers in this study. No wells had water samples that exceeded the maximum contaminant level<sup>5</sup> (MCL) of 50 µg/L for arsenic (U.S. Environmental Protection Agency, 1992).

Concentrations of other elements and trace elements (table 11), with the exception of one water sample from HMW-21 for lead, generally were less

than the USEPA primary and secondary drinking-water regulations (1988a).

Volatile organic compounds (VOC's), primarily solvents from industrial wastes, are some of the major ground-water contaminants in New Hampshire (Morrissey and Regan, 1987). The most common VOC's are dichloroethane, trichloroethylene, tetrachloroethane, benzene, ethylbenzene, and toluene. Water samples from 11 USGS observation wells were tested for 27 different VOC's (Appendix C). Except for trace levels (0.40 µg/L) of methylene chloride in water from well ANW-19, all VOC concentrations are below the detection level of 0.30 µg/L.

A trilinear diagram showing major cation and anion water chemistry of water samples from USGS wells is shown in figure 21. The trilinear diagram shows the percentage of major cations and anions in milliequivalents per liter. The principal cations are calcium and sodium, and the principal anions are bicarbonate and chloride. From these samples, natural water quality of stratified-drift aquifers can be characterized as a calcium bicarbonate water type. Water samples from wells adjacent to roads (RGW-107 and GSW-75) were a sodium chloride water type and were probably affected by road salting activities.

Although the effect of geohydrologic factors on water quality was not analyzed, the variation in residence times in different geohydrologic settings within the basin may have an effect on water quality. The steep hydraulic gradients and narrow aquifers associated with tributary valleys with stratified-drift aquifers are likely to have extremely short residence times as compared to the shallow hydraulic gradients in the large stratified-drift aquifers in the main valley of the Contoocook River. The buffering capacity of water typically increases with increased residence times.

## SUMMARY AND CONCLUSIONS

Discontinuous stratified-drift aquifers underlie 16 percent of the 766 mi<sup>2</sup> of the Contoocook River basin

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<sup>5</sup> MCL (maximum contaminant level) is an enforceable, health-based regulation that is to be set as close to the level at which no known or anticipated adverse effects on the health of a person occur as is feasible. The definition of feasible means the use of best technology, treatment techniques, and other means that the Administrator of the U.S. Environmental Protection Agency finds, after examination for efficacy under field conditions and not solely under laboratory conditions, are generally available (taking cost into consideration).

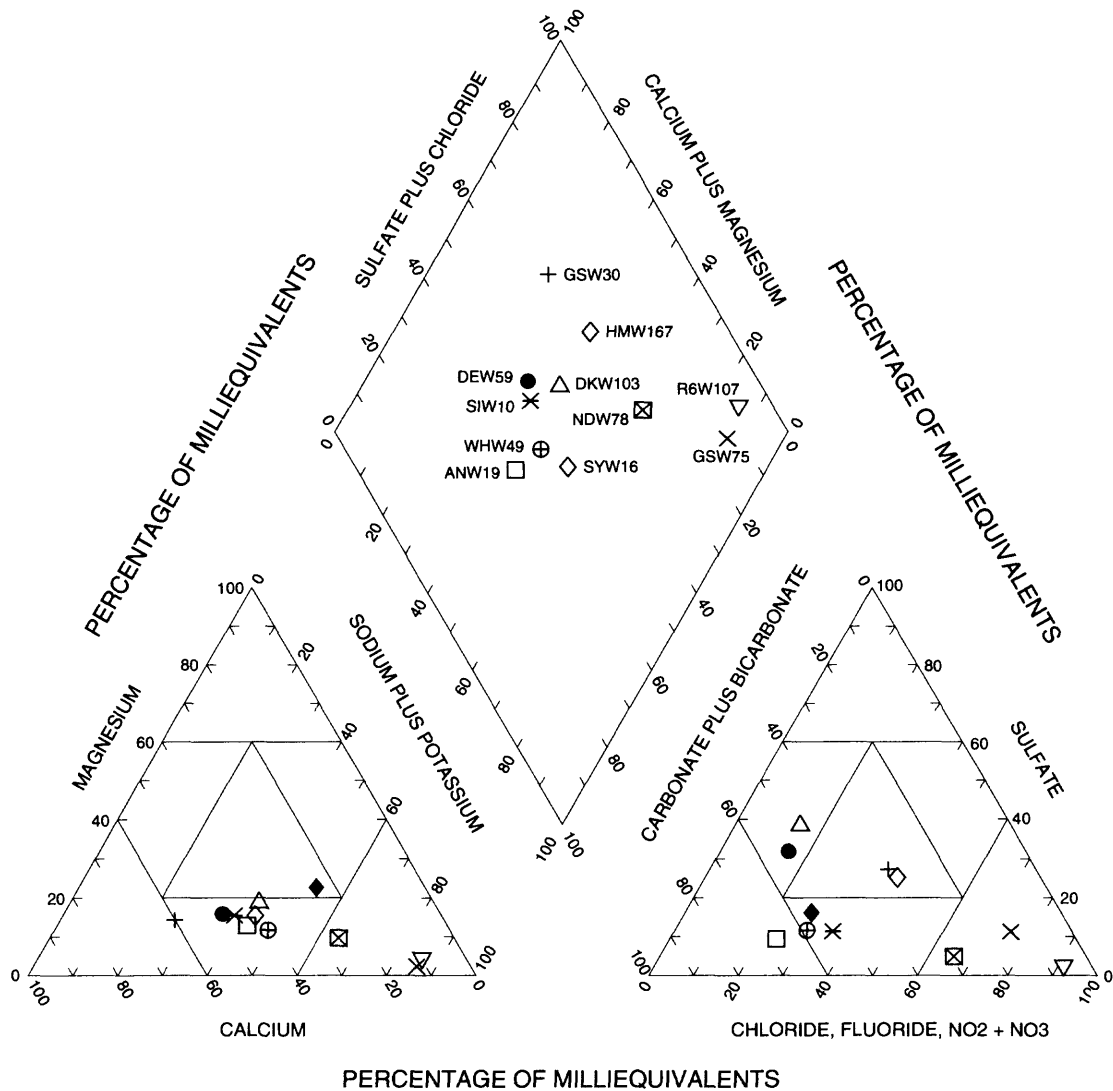


Figure 21.--Trilinear diagram showing major-ion chemistry of water samples from U.S. Geological Survey wells.

and are commonly present in low-lying river valleys. The largest contiguous aquifer, approximately 27 mi<sup>2</sup>, is in the central river valley of the Contoocook River. The Contoocook River asymmetrically bisects the basin, and tributary river valleys along the western flank of the basin contain small aquifers.

The sediments composing the aquifers were deposited primarily in a large glacial lake that covered 166 mi<sup>2</sup> of the basin. The most permeable, coarse-grained sediments were deposited by ice-front deltas and subglacial valley trains. The glacial lake drained at eight sequential south-trending outlets in a direction opposed to present drainage patterns of the Contoocook River. The effect of reversed drainage patterns and several levels of the

lake controlled depositional processes and formation of specific depositional units.

Saturated thickness of stratified-drift aquifers exceeded 160 ft in several areas but was generally less than 80 ft. Several small, narrow, and deep channels in bedrock were eroded by subglacial meltwaters; maximum saturated thickness is approximately 230 ft in a narrow, deeply eroded bedrock channel next to Norway Pond in Hancock. Transmissivities estimated from lithologic logs exceed 8,000 ft<sup>2</sup>/d in several aquifers but more commonly are less than 2,000 ft<sup>2</sup>/d. Ice-contact, deltaic, and valley-train deposits have estimated transmissivities that exceeded 2,000 ft<sup>2</sup>/d. An ice-contact deposit in Bennington along the Contoocook River has an

estimated maximum transmissivity of approximately 22,000 ft<sup>2</sup>/d.

Ground-water withdrawals from stratified-drift aquifers are estimated to be 1.6 Mgal/d. Most of this amount (96 percent) consists of withdrawals from municipal wells. Domestic and commercial users primarily depend on bedrock aquifers. Eighty-four percent of domestic and commercial users rely on bedrock aquifers as water-supply sources.

The effective ground-water-recharge rate for the entire basin is 13.9 in/yr. This rate integrates the effective recharge of all aquifers in the basin (stratified drift, till, and bedrock). The effective recharge to the entire basin, determined by the use of base-flow-separation techniques from streamflow data at the Contoocook River in Penacook, is 521 Mgal/d. The maximum potential average annual recharge to the stratified-drift aquifers from infiltration of precipitation is estimated at 121 Mgal/d. Additional recharge from other sources also occurs.

Ground-water storage is greatest in aquifers along the Contoocook River valley in the Main Stem South, South-Central, and Main Stem North subbasins. These subbasins contain the largest stratified-drift aquifers. The Main Stem South-Central subbasin contains the most transmissive stratified-drift aquifers. Highly transmissive aquifers formed by eskers and ice-contact deltaic deposits are present in Hancock near Norway Pond, in Greenfield, and along the Contoocook River in Bennington.

Aquifer yields were estimated for four aquifers by means of an analytical ground-water-flow model that was based on the Theis confined-flow equation adjusted to account for boundary effects typically associated with stratified-drift aquifers. The maximum sustained aquifer yield during a period of no recharge was 1.85 Mgal/d at the Greenfield-Otter Brook aquifer. Aquifer yields can exceed this rate during periods of recharge.

Additional aquifer yields are primarily dependent upon the amount of induced infiltration from surface-water bodies because of the small volume of coarse-grained aquifer deposits capable of yielding water. Leakage from a fine-grained low transmissibility sequence in contact with coarse-grained, more transmissive units may also provide sustained yields.

Under natural conditions, ground water in stratified-drift aquifers is a calcium bicarbonate type. Water samples were collected from 11 observation wells to assess the quality of ground water at wells located away from areas of known ground-water contamination. Data from an additional 10 public-supply wells from the New Hampshire

Department of Environmental Services were incorporated to augment spatial coverage throughout the aquifer. In general, concentrations of trace metals were below recommended levels established by USEPA primary and secondary drinking-water regulations. VOC's were detected at low levels (0.4 µg/L) in a sample from one site. Elevated sodium and chloride concentrations at some locations may be the result of road-salting activities during winter.

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## GLOSSARY

- Aquifer**--A geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable materials to yield significant quantities of water to wells and springs. Where water only partly fills an aquifer, the upper surface of the saturated zone is free to rise and decline.
- Aquifer boundary**--A feature that defines the extent of an aquifer.
- Aquifer yield**--The maximum rate of withdrawal that can be sustained without causing an unacceptable decline in the hydraulic head in the aquifer.
- Base flow**--Sustained low flow or fair-weather runoff. In most streams, base runoff is composed largely of ground-water seepage.
- Bedrock**--Solid rock, locally called "ledge," that forms the Earth's crust. The rock may be exposed at the surface but more commonly is buried beneath a few inches to more than 200 feet of unconsolidated deposits.
- Cone of depression**--A depression produced in a water table or other potentiometric surface by the withdrawal of water from an aquifer; in cross section, it is shaped like an inverted cone with its apex at the pumped well.
- Confined aquifer**--An aquifer saturated with water and bounded above and below by material having a distinctly lower hydraulic conductivity than the aquifer itself.
- Contact**--A plane or irregular surface between two types or ages of rocks or unconsolidated sediments.
- Cubic foot per second (ft<sup>3</sup>/s)**--A unit expressing rate of discharge. One cubic foot per second is equal to the discharge of a stream 1 foot wide and 1 foot deep flowing at an average velocity of 1 foot per second.

**Cubic foot per second per square mile [(ft<sup>3</sup>/s)/mi<sup>2</sup>]**--A unit expressing average number of cubic feet of water flowing per second from each square mile of area drained.

**Deposit**--Earth material that has accumulated by some natural process.

**Dissolved solids**--The residue from a clear sample of water after evaporation and drying for 1 hour at 180°C; consists primarily of dissolved mineral constituents but may also contain organic matter and water of crystallization.

**Drainage area**--The area or tract of land, measured in a horizontal plane, where water accumulates and ultimately flows to some point on a stream channel, lake, reservoir, or other body of water.

**Drawdown**--The lowering of the water table or potentiometric surface caused by the withdrawal of water from an aquifer by pumping; equal to the difference between the static water level and the pumping water level.

**Drumlin**--A low, smoothly rounded, elongated oval hill of till, built under the margin of glacial ice and shaped by its flow; its long axis is parallel to the direction of movement of the ice.

**Effective size**--That grain size where 10 percent of the sample is finer than the effective grain size and 90 percent is coarser than the effective grain size.

**Esker**--A long, narrow ridge of sand and gravel that was deposited by water flowing in tunnels within or beneath glacial ice.

**Flow duration of a stream**--The percentage of time during which specified discharges are equaled or exceeded within a given time period.

**Foreset bed**--One of the gently inclined layers of sandy material deposited upon or along an advancing and relatively steep frontal slope.

**Fracture**--A break, crack, or opening in bedrock along which water can move.

**Gravel**--Unconsolidated rock debris composed principally of particles with a median diameter of 2 mm.

**Ground water**--Water beneath the water table in soils or geologic formations that are fully saturated.

**Ground-water discharge**--The discharge of water from the saturated zone by (1) natural processes such as ground-water seepage into stream channels and ground-water evapotranspiration and (2) discharge through wells and other man-made structures.

**Ground-water divide**--A ridge in the water table or other potentiometric surface from which the ground water moves away in both directions.

**Ground-water evapotranspiration**--Ground water discharged into the atmosphere in the gaseous state either by direct evaporation from the water table or by the transpiration of plants.

**Ground-water recharge**--Water that is added to the saturated zone of an aquifer.

**Ground-Water Site Inventory (GWSI)**--A computerized file maintained by the U.S. Geological Survey that contains information collected throughout the United States about wells, borings, and springs.

**Head, static**--The height of the surface of a water column above a standard datum that can be supported by the static pressure of a given point.

**Hydraulic conductivity (K)**--A measure of the ability of a porous medium to transmit a fluid. Hydraulic conductivity can be expressed in unit length per unit time; for example, a material has a hydraulic conductivity of 1 foot per day if it will transmit in 1 day, 1 foot of water at the prevailing kinematic viscosity through a 1-foot-square cross section of aquifer, measured at right angles to the direction of flow, under a hydraulic gradient of 1-foot change in head over a 1-foot length of flow path.

**Hydraulic diffusivity (T/S or K/Ss)**--The ratio of transmissivity to storage coefficient or hydraulic conductivity to specific storage in length squared per time.

**Hydraulic gradient**--The change in static head per unit of distance in a given direction. If not specified, the direction is generally understood to be that of the maximum rate of decrease in head.

**Hydrograph**--A graph showing stage (height), flow, velocity, or other properties of water with respect to time.

**Ice-contact deposits**--Stratified drift deposited in contact with melting glacial ice. Landforms include eskers, kames, kame terraces, and grounding-line deltas.

**Induced infiltration**--The process by which water infiltrates an aquifer from an adjacent surface-water body in response to pumping.

**Kame**--A low mound, knob, hummock, or short irregular ridge, composed of stratified sand and gravel deposited by glacial meltwater; the precise mode of formation is uncertain.

**Kame terrace**--A terrace like ridge consisting of stratified sand and gravel formed as a glaciofluvial deposit between a melting glacier or stagnant ice lobe and a high valley wall, left standing after the disappearance of the ice.

**Mean (arithmetic)**--The sum of the individual values of a set, divided by their total number; also referred to as the "average."

**Median**--The middle value of a set of measurements that are ordered from lowest to highest; 50 percent of the measurements are lower than the median and 50 percent are higher than the median.

**Micrograms per liter ( $\mu\text{g/L}$ )**--A unit expressing the concentration of chemical constituents in solution as the mass (micrograms) of a constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

**Milligrams per liter ( $\text{mg/L}$ )**--A unit for expressing the concentration of chemical constituents in solution as the mass (milligrams) of a constituent per unit volume (liter) of water.

**Morphosequence**--A continuum of time-equivalent landforms composed of melt-water deposits from more collapsed forms as a result of melting of ice blocks at the head or upstream parts of outwash to progressively less collapsed forms downstream. A sequence can thus be viewed as a body of stratified drift laid down, layer upon layer, by melt water at and beyond the margin of a glacier.

**Outwash**--Stratified deposits chiefly of sand and gravel removed or "washed out" from a glacier by meltwater streams and deposited beyond the margin of a glacier, usually deposited as flat or gently sloping outwash plains.

**Outwash deltas**--Deltas formed beyond the margin of the glacier where glacial meltwater entered a water body.

**pH**--The negative logarithm of the hydrogen-ion concentration. A pH of 7.0 indicates neutrality; values below 7.0 denote acidity, and those above 7.0 denote alkalinity.

**Phi grade scale**--A logarithmic transformation of the Wentworth grade scale based on the negative logarithm to the base 2 of the particle diameter, in millimeters.

**Porosity**--The property of a rock or unconsolidated deposit that is a measure of the size and number of internal voids or open spaces; it may be expressed quantitatively as the ratio of the volume of its open spaces to its total volume.

**Precipitation**--The discharge of water from the atmosphere, either in a liquid or solid state.

**Primary porosity**--Porosity that is intrinsic to the sediment or rock matrix. (See secondary porosity.)

**Runoff**--That part of the precipitation that appears in streams. It is the same as streamflow unaffected by artificial diversions, storage, or other human activities in or on the stream channels. Runoff consists of surface runoff (overland flow), interflow, and ground-water seepage (base flow).

**Saturated thickness (of stratified drift)**--Thickness of stratified drift extending down from the water table to the till or bedrock surface.

**Saturated zone**--The subsurface zone in which all open (interconnected) spaces are filled with water. Water below the water table, the upper limit of the saturated zone, is under pressure that is greater than atmospheric pressure.

**Secondary porosity**--Porosity that is developed by such phenomena as secondary solution or structurally controlled regional fracturing.

**Sediment**--Fragmental material that originates from the weathering of rocks. It can be transported by, suspended in, or deposited by water.

**Specific storage**--The volume of water that a unit volume of aquifer releases from storage under a unit decline in hydraulic head.

**Specific yield**--Ratio of the volume of water that a given mass of saturated rock or soil will yield by gravity from that mass.

**Standard deviation**--A measure of the amount of variability within a sample; it is the square root of the average of the squares of the deviations about the arithmetic mean of a set of data.

**Steady-state**--A condition in which the magnitude and the direction of the flow velocity at any point in a flow field is constant with time.

**Storage coefficient**--The volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head. In an unconfined aquifer, the storage coefficient is virtually equal to the specific yield.

**Stratified drift**--Sorted and layered unconsolidated material deposited in meltwater streams flowing from glaciers or settled from suspension in quiet water bodies fed by meltwater streams.

**Surficial geology**--The distribution of unconsolidated deposits at or near the land surface.

**Syncline**--A fold of which the core contains the stratigraphically younger rocks; it is generally concave upward.

**Synclinorium**--A composite synclinal structure of regional extent composed of lesser folds.

**Till**--A predominantly nonsorted, nonstratified sediment deposited directly by a glacier and consists of boulders, gravel, sand, silt, and clay mixed in various proportions.

**Topset bed**--One of the nearly horizontal layers of sediments deposited on the top surface of a delta; it truncates or covers the foreset beds.

**Transmissivity**--The rate at which water is transmitted through a unit width of aquifer under a unit hydraulic gradient. Equal to the average hydraulic conductivity times the saturated thickness.

**Unconfined aquifer (water-table aquifer)**--An aquifer only partly filled with water. In such aquifers, the water is unconfined in that the water table or the upper surface of the saturated zone is at atmospheric pressure and is free to rise and fall.

**Unconsolidated deposit**--A sediment in which the particles are not firmly cemented together, such as sand in contrast to sandstone.

**Unsaturated zone**--The zone between the water table and the land surface in which the open spaces (voids) are not completely filled with water.

**Water table**--The upper surface of the saturated zone. Water at the water table is at atmospheric pressure.

## **Appendix A**

### **Description of wells and borings**

Appendix A.--Description of wells and borings

**Local site number:** First two characters indicate U.S. Geological Survey town code. Third character indicates-- A, borings done for hydrologic purposes; B, borings done primarily for constructional purposes; S, spring; W, well.

**Latitude, Longitude:** Accurate within 5 seconds.

**Elevation:** Elevations are expressed in feet above sea level. Most elevations were estimated from U.S. Geological Survey topographic maps, accurate to  $\pm 5$  to 10 feet (half the contour interval). Some elevations were determined by use of levels and are accurate to  $\pm 0.1$  foot as shown.

**Owner or user:** Assoc., association; Bros, brothers; Cl, club; Co., company; Constr, construction; Contrg, contracting; Cnty, county; Corp, corporation; Dept, department; Dev, development; Dist, district; Elem, elementary; Ent, enterprise; Inc., incorporated; Lk Vil Wtr Dist, Lake Village Water District; Mtn. Rehab. Ce, Mountain Rehabilitation Center; NE, New England; NH Dept. Env. Serv., New Hampshire Department of Environmental Services; NH PUB WKS HWY, New Hampshire Public Works Highway; Scho, school; USGS, United States Geological Survey

**Diameter:** Nominal inside diameters of the well casings, in inches.

**Depth to bottom of casing:** Depth to the bottom of well casing in feet below land-surface datum.

**Casing material:** (materials from which the casings are made): P, PVC or other plastic; or S, steel.

**Type of finish:** (method of finish or nature of the openings that allow water to enter the well): G, gravel-pack well with a screen; P, perforated or slotted with holes punched or slots cut into the casing to admit water; S, screen (manufactured); W, walled with open-jointed fieldstone, brick, tile, or concrete blocks; X, open hole where the casing does not extend to the bottom of the well (usually a bedrock well).

**Depth to bottom of open section:** Depth to the bottom of the screen or open section in which water enters the well in feet below land-surface datum.

**Type of well or spring:** BrW, bedrock well; TH, test hole;  
Wells or borings in surficial deposits: Bor, bored or augered; Cbl, cable-tool well; Dug, dug well.

**Water level:** In feet below land-surface datum; negative sign indicates water level above land-surface datum; mm-dd-yy, month-day-year.

**Use:**  
Use of site: O, observation well drilled for water-level or water-quality observations; T, test hole.  
Use of water: C, commercial; H, domestic; N, industrial; P, public supply; U, unused.

**Maximum well yield:** Discharge in gallons per minute.

**Drawdown:** In feet, observed at a pumping well.

**Specific capacity:** In gallons per minute per foot of drawdown.

**Pumping period:** The length of time, in hours, that the well was pumped prior to the measurement of production levels.

**Remarks:** RCRA, Resource Conservation and Recovery Act; USGS, well or test hole drilled by the U.S. Geological Survey for this investigation; Z, auger; Bridge 141/146 boring 3, bridge boring numbering system.

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user        | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of open well (feet) | Type of well | Local site number | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                                    |
|-------------------|----------|-----------|----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|-------------------------------------|--------------|-------------------|-----------------------------|----------------------|------------------------------|------------------|----------------------------------|------------------------|--|
|                   |          |           |                      |                |                                  |                           |                                  |                 |                        |                                     |              |                   |                             |                      |                              |                  |                                  |                        |  |
| DKB 1             | 425359   | 720108    |                      | --             | 1047.2                           | --                        | --                               | --              | --                     | --                                  | TH           | DKB 1             | --                          | 0                    | --                           | --               | --                               | --                     | RT 101 relocated over Mud Pond No. 5 of 14 |
| DKB 3             | 425359   | 720107    | NH PUB MKS HWY       | --             | 1040.0                           | --                        | --                               | --              | --                     | --                                  | TH           | DKB 3             | --                          | T                    | --                           | --               | --                               | --                     | Bridge 180/102 boring 5                    |
| DKB 4             | 425316   | 720008    | NH PUB MKS HWY       | --             | 1080.0                           | --                        | --                               | --              | --                     | --                                  | TH           | DKB 4             | --                          | T                    | --                           | --               | --                               | --                     | Bridge 196/095 boring 7                    |
| DKW 17            | 425337   | 720336    | Henderson, Ernest    | 1952           | 1570.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 17            | --                          | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 19            | 425256   | 720407    | Gordon, W.           | 1948           | 1440.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 19            | --                          | H                    | 4.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 22            | 435238   | 720325    | Gordon, Josephine    | 1960           | 1340.0                           | --                        | 22.0                             | --              | --                     | --                                  | BRW          | DKW 22            | 30.0                        | H                    | 6.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 27            | 425255   | 720102    | Sirois, John         | 1956           | 1070.0                           | --                        | 25.0                             | --              | --                     | --                                  | BRW          | DKW 27            | 12.0                        | H                    | 3.2                          | --               | --                               | --                     | Bedrock                                    |
| DKW 29            | 425449   | 720307    | Blanchette, Arthur   | 1962           | 1170.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 29            | --                          | H                    | 5.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 30            | 425214   | 720333    | Burpee, L.H.         | 1952           | 1210.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 30            | --                          | H                    | 6.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 31            | 425420   | 720326    | Davis, G.B.          | 1953           | 1350.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 31            | 35.0                        | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 32            | 425421   | 720249    | Dublin Womens Club   | 1951           | 1250.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 32            | --                          | H                    | 5.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 34            | 425416   | 720217    | Foote, Edward        | 1952           | 1270.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 34            | --                          | H                    | 6.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 35            | 425456   | 720308    | Glidden, Floyd       | 1956           | 1140.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 35            | --                          | H                    | 50.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 36            | 425235   | 720002    | Greeley, E.          | 1948           | 1110.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 36            | 30.0                        | H                    | 4.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 38            | 425421   | 720237    | Hale, Rufus F.       | 1963           | 1270.0                           | --                        | 295.0                            | --              | --                     | --                                  | BRW          | DKW 38            | --                          | H                    | 25.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 39            | 425352   | 720229    | Hameline, M.         | 1952           | 1290.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 39            | 10.0                        | H                    | 10.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 40            | 425416   | 720126    | Johnson (Duck Acres) | 1953           | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 40            | 25.0                        | H                    | 9.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 41            | 425322   | 720015    | Knight, Henry        | 1949           | 1060.0                           | --                        | 86.0                             | --              | --                     | --                                  | BRW          | DKW 41            | --                          | H                    | 8.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 42            | 425356   | 720347    | Meckie, Carl         | 1951           | 1580.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 42            | 20.0                        | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 43            | 425426   | 720316    | Miller, Henry        | 1948           | 1320.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 43            | 10.0                        | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 44            | 425316   | 720336    | Perkins, Ralph       | --             | 1510.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 44            | 95.0                        | H                    | 15.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 45            | 425407   | 720127    | Rajaniemi, Arthur    | 1900           | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 45            | --                          | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 46            | 425407   | 720127    | Rajaniemi, Arthur    | 1961           | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 46            | 40.0                        | H                    | 10.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 47            | 425339   | 720143    | Rajaniemi, Lauri     | --             | 1250.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 47            | 30.0                        | H                    | 2.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 48            | 425405   | 720128    | G. Carr              | --             | 1090.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 48            | --                          | H                    | 7.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 49            | 425445   | 720156    | Town of Dublin       | --             | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 49            | --                          | 0                    | --                           | --               | --                               | --                     | Bedrock                                    |
| DKW 50            | 425417   | 720256    | Miller               | --             | 1270.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 50            | 40.0                        | H                    | --                           | --               | --                               | --                     | Bedrock                                    |
| DKW 53            | 425409   | 720149    | --                   | 1984           | 1150.0                           | --                        | 95.0                             | --              | X                      | --                                  | BRW          | DKW 53            | 40.0                        | H                    | 15.0                         | --               | --                               | --                     | Bedrock                                    |

Appendix A.--Description of wells and borings  
(gal/min), gallon per minute; (gal/min)/ft., gallon per minute per foot; --, no data available)

| Local site number | Latitude | Longitude | Owner or user        | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of open well (feet) | Type of well | Local site number | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                                    |
|-------------------|----------|-----------|----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|-------------------------------------|--------------|-------------------|-----------------------------|----------------------|------------------------------|------------------|----------------------------------|------------------------|--|
|                   |          |           |                      |                |                                  |                           |                                  |                 |                        |                                     |              |                   |                             |                      |                              |                  |                                  |                        |  |
| DKB 1             | 425359   | 720108    |                      | --             | 1047.2                           | --                        | --                               | --              | --                     | --                                  | TH           | DKB 1             | --                          | 0                    | --                           | --               | --                               | --                     | RT 101 relocated over Mud Pond No. 5 of 14 |
| DKB 3             | 425359   | 720107    | NH PUB MKS HWY       | --             | 1040.0                           | --                        | --                               | --              | --                     | --                                  | TH           | DKB 3             | --                          | T                    | --                           | --               | --                               | --                     | Bridge 180/102 boring 5                    |
| DKB 4             | 425316   | 720008    | NH PUB MKS HWY       | --             | 1080.0                           | --                        | --                               | --              | --                     | --                                  | TH           | DKB 4             | --                          | T                    | --                           | --               | --                               | --                     | Bridge 196/095 boring 7                    |
| DKW 17            | 425337   | 720336    | Henderson, Ernest    | 1952           | 1570.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 17            | --                          | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 19            | 425256   | 720407    | Gordon, W.           | 1948           | 1440.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 19            | --                          | H                    | 4.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 22            | 435238   | 720325    | Gordon, Josephine    | 1960           | 1340.0                           | --                        | 22.0                             | --              | --                     | --                                  | BRW          | DKW 22            | 30.0                        | H                    | 6.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 27            | 425255   | 720102    | Sirois, John         | 1956           | 1070.0                           | --                        | 25.0                             | --              | --                     | --                                  | BRW          | DKW 27            | 12.0                        | H                    | 3.2                          | --               | --                               | --                     | Bedrock                                    |
| DKW 29            | 425449   | 720307    | Blanchette, Arthur   | 1962           | 1170.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 29            | --                          | H                    | 5.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 30            | 425214   | 720333    | Burpee, L.H.         | 1952           | 1210.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 30            | --                          | H                    | 6.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 31            | 425420   | 720326    | Davis, G.B.          | 1953           | 1350.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 31            | 35.0                        | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 32            | 425421   | 720249    | Dublin Womens Club   | 1951           | 1250.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 32            | --                          | H                    | 5.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 34            | 425416   | 720217    | Foote, Edward        | 1952           | 1270.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 34            | --                          | H                    | 6.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 35            | 425456   | 720308    | Glidden, Floyd       | 1956           | 1140.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 35            | --                          | H                    | 50.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 36            | 425235   | 720002    | Greeley, E.          | 1948           | 1110.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 36            | 30.0                        | H                    | 4.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 38            | 425421   | 720237    | Hale, Rufus F.       | 1963           | 1270.0                           | --                        | 295.0                            | --              | --                     | --                                  | BRW          | DKW 38            | --                          | H                    | 25.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 39            | 425352   | 720229    | Hameline, M.         | 1952           | 1290.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 39            | 10.0                        | H                    | 10.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 40            | 425416   | 720126    | Johnson (Duck Acres) | 1953           | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 40            | 25.0                        | H                    | 9.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 41            | 425322   | 720015    | Knight, Henry        | 1949           | 1060.0                           | --                        | 86.0                             | --              | --                     | --                                  | BRW          | DKW 41            | --                          | H                    | 8.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 42            | 425356   | 720347    | Meckie, Carl         | 1951           | 1580.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 42            | 20.0                        | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 43            | 425426   | 720316    | Miller, Henry        | 1948           | 1320.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 43            | 10.0                        | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 44            | 425316   | 720336    | Perkins, Ralph       | --             | 1510.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 44            | 95.0                        | H                    | 15.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 45            | 425407   | 720127    | Rajaniemi, Arthur    | 1900           | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 45            | --                          | H                    | 20.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 46            | 425407   | 720127    | Rajaniemi, Arthur    | 1961           | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 46            | 40.0                        | H                    | 10.0                         | --               | --                               | --                     | Bedrock                                    |
| DKW 47            | 425339   | 720143    | Rajaniemi, Lauri     | --             | 1250.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 47            | 30.0                        | H                    | 2.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 48            | 425405   | 720128    | G. Carr              | --             | 1090.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 48            | --                          | H                    | 7.0                          | --               | --                               | --                     | Bedrock                                    |
| DKW 49            | 425445   | 720156    | Town of Dublin       | --             | 1080.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 49            | --                          | 0                    | --                           | --               | --                               | --                     | Bedrock                                    |
| DKW 50            | 425417   | 720256    | Miller               | --             | 1270.0                           | --                        | --                               | --              | --                     | --                                  | BRW          | DKW 50            | 40.0                        | H                    | --                           | --               | --                               | --                     | Bedrock                                    |
| DKW 53            | 425409   | 720149    | --                   | 1984           | 1150.0                           | --                        | 95.0                             | --              | X                      | --                                  | BRW          | DKW 53            | 40.0                        | H                    | 15.0                         | --               | --                               | --                     | Bedrock                                    |



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user  | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open section or finish (feet) | Type of well |
|-------------------|----------|-----------|----------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|
| DKW 54            | 425416   | 720220    | --             | 1984           | 1260.0                           | --                        | 99.0                             | --   | BrW          |
| DKW 55            | 425240   | 720321    | --             | 1984           | 1320.0                           | --                        | 79.0                             | --   | BrW          |
| DKW 57            | 425449   | 720220    | --             | 1985           | 1040.0                           | --                        | 34.0                             | --   | BrW          |
| DKW 58            | 425446   | 720155    | Town of Dublin | 1985           | 1080.0                           | --                        | 63.0                             | S  | --           |
| DKW 59            | 425300   | 720047    | --             | 1985           | 1080.0                           | --                        | 19.0                             | X  | BrW          |
| DKW 60            | 425395   | 720040    | --             | 1985           | 1100.0                           | --                        | 22.0                             | X  | BrW          |
| DKW 61            | 425450   | 720054    | Moore          | 1985           | 1050.0                           | --                        | 96.0                             | X  | BrW          |
| DKW 62            | 425336   | 720238    | --             | 1985           | 1360.0                           | --                        | 119.0                            | X  | BrW          |
| DKW 63            | 425456   | 720309    | --             | 1985           | 1140.0                           | --                        | 29.0                             | X  | BrW          |
| DKW 65            | 425437   | 720023    | --             | 1985           | 1000.0                           | --                        | 189.0                            | X  | BrW          |
| DKW 67            | 425440   | 720042    | --             | 1985           | 1040.0                           | --                        | 114.0                            | X  | BrW          |
| DKW 68            | 425431   | 720107    | --             | 1985           | 990.0                            | --                        | 67.0                             | X  | BrW          |
| DKW 69            | 425431   | 720119    | --             | 1985           | 1080.0                           | --                        | 145.0                            | X  | BrW          |
| DKW 70            | 425439   | 720029    | Jenson         | 1986           | 1020.0                           | --                        | 164.0                            | X  | BrW          |
| DKW 71            | 425434   | 720112    | --             | 1986           | 1000.0                           | --                        | 64.0                             | X  | BrW          |
| DKW 72            | 425453   | 720051    | --             | 1985           | 1060.0                           | --                        | 99.0                             | X  | BrW          |
| DKW 73            | 425314   | 720153    | --             | 1986           | 1180.0                           | --                        | 21.0                             | X  | BrW          |
| DKW 74            | 425432   | 720104    | Torphy         | 1986           | 990.0                            | --                        | 59.0                             | X  | BrW          |
| DKW 75            | 425210   | 720124    | Cerroni        | 1986           | 1080.0                           | --                        | 23.0                             | X  | BrW          |
| DKW 76            | 425432   | 720304    | --             | 1985           | 1250.0                           | --                        | 27.0                             | X  | BrW          |
| DKW 77            | 425225   | 720205    | Felch          | 1986           | 1110.0                           | --                        | 59.0                             | X  | BrW          |
| DKW 78            | 425227   | 720204    | Revelado       | 1986           | 1120.0                           | --                        | 40.0                             | X  | BrW          |
| DKW 79            | 425334   | 720300    | Wheelock       | 1987           | 1490.0                           | --                        | 189.0                            | X  | BrW          |
| DKW 80            | 425506   | 720015    | --             | 1987           | 1060.0                           | --                        | 122.0                            | X  | BrW          |
| DKW 81            | 425439   | 720114    | --             | 1986           | 1020.0                           | --                        | 64.0                             | X  | BrW          |
| DKW 82            | 425240   | 720019    | --             | 1986           | 1110.0                           | --                        | 19.0                             | X  | BrW          |
| DKW 83            | 425436   | 720124    | Babb           | 1986           | 1120.0                           | --                        | 19.0                             | X  | BrW          |
| DKW 85            | 425439   | 720103    | Moore          | 1986           | 1020.0                           | --                        | 179.0                            | X  | BrW          |
| DKW 86            | 425452   | 720114    | --             | 1986           | 980.0                            | --                        | 24.0                             | X  | BrW          |
| DKW 87            | 425243   | 720017    | --             | 1986           | 1090.0                           | --                        | 21.0                             | X  | BrW          |
| DKW 88            | 425454   | 720054    | Benoit         | 1987           | 1060.0                           | --                        | 161.0                            | X  | BrW          |
| DKW 89            | 425442   | 720126    | --             | 1987           | 1140.0                           | --                        | 24.0                             | X  | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min)/ft] | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------|
| DKW 54            | 06-01-84                    | H                    | 3.5                     | --              | --                               | 1.0                    |         |
| DKW 55            | ----                        | H                    | 3.0                     | --              | --                               | 1.0                    |         |
| DKW 57            | ----                        | H                    | 60.0                    | --              | --                               | --                     |         |
| DKW 58            | ----                        | 0                    | --                      | --              | --                               | --                     |         |
| DKW 59            | 05-24-85                    | T                    | 25.0                    | --              | --                               | 1.0                    |         |
| DKW 60            | 09-12-85                    | H                    | 5.5                     | --              | --                               | 1.0                    |         |
| DKW 61            | 08-30-85                    | H                    | 8.0                     | --              | --                               | 1.0                    |         |
| DKW 62            | ----                        | H                    | 4.0                     | --              | --                               | --                     |         |
| DKW 63            | 06-07-85                    | H                    | 5.0                     | --              | --                               | --                     |         |
| DKW 65            | 11-19-85                    | H                    | 7.0                     | --              | --                               | 1.0                    |         |
| DKW 67            | 11-13-85                    | H                    | 15.0                    | --              | --                               | 6.0                    |         |
| DKW 68            | ----                        | H                    | 15.0                    | --              | --                               | 2.0                    |         |
| DKW 69            | 10-24-85                    | H                    | 15.0                    | --              | --                               | 4.0                    |         |
| DKW 70            | 03-15-86                    | H                    | 15.0                    | --              | --                               | 1.0                    |         |
| DKW 71            | ----                        | H                    | 20.0                    | --              | --                               | 1.0                    |         |
| DKW 72            | 02-03-86                    | H                    | 7.0                     | --              | --                               | 1.0                    |         |
| DKW 73            | 04-12-86                    | H                    | 12.0                    | --              | --                               | 1.0                    |         |
| DKW 74            | 05-30-86                    | H                    | 40.0                    | --              | --                               | 1.0                    |         |
| DKW 75            | ----                        | H                    | 15.0                    | --              | --                               | 2.5                    |         |
| DKW 76            | ----                        | H                    | 25.0                    | --              | --                               | 1.5                    |         |
| DKW 77            | ----                        | H                    | 3.5                     | --              | --                               | 2.5                    |         |
| DKW 78            | ----                        | H                    | 5.0                     | --              | --                               | 2.5                    |         |
| DKW 79            | ----                        | H                    | 5.0                     | --              | --                               | 2.5                    |         |
| DKW 80            | 05-15-87                    | H                    | 6.0                     | --              | --                               | --                     |         |
| DKW 81            | ----                        | H                    | 2.0                     | --              | --                               | --                     |         |
| DKW 82            | 09-18-86                    | H                    | 5.0                     | --              | --                               | --                     |         |
| DKW 83            | ----                        | H                    | 2.0                     | --              | --                               | --                     |         |
| DKW 85            | ----                        | H                    | 4.0                     | --              | --                               | --                     |         |
| DKW 86            | 07-18-87                    | H                    | 8.0                     | --              | --                               | 3.0                    |         |
| DKW 87            | 08-25-86                    | H                    | 20.0                    | --              | --                               | --                     |         |
| DKW 88            | 04-10-87                    | H                    | 5.0                     | --              | --                               | 3.0                    |         |
| DKW 89            | 09-30-87                    | H                    | 1.0                     | --              | --                               | 3.0                    |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or (feet) spring | Depth to bottom of well (feet) | Type |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---|--------------------------------|------|
| DKW 90            | 425447   | 720136    | --                  | 1986           | 1080.0                           | --                        | 39.0                             | --              | X                                       | --                             | BrW  |
| DKW 91            | 425205   | 720124    | --                  | 1987           | 1100.0                           | --                        | 50.0                             | --              | X                                       | --                             | BrW  |
| DKW 92            | 425230   | 720204    | Butterworth         | 1987           | 1120.0                           | --                        | 49.0                             | --              | X                                       | --                             | BrW  |
| DKW 93            | 425443   | 720042    | --                  | 1987           | 1040.0                           | --                        | 139.0                            | --              | X                                       | --                             | BrW  |
| DKW 94            | 425446   | 720125    | --                  | 1987           | 1080.0                           | --                        | 20.0                             | --              | X                                       | --                             | BrW  |
| DKW 95            | 425231   | 715956    | --                  | 1988           | 1050.0                           | --                        | 47.0                             | --              | X                                       | --                             | BrW  |
| DKW 96            | 425445   | 720037    | --                  | 1988           | 1060.0                           | --                        | 159.0                            | --              | X                                       | --                             | BrW  |
| DKW 103           | 425338   | 720104    | --                  | 1989           | 1050.0                           | 2                         | 17.0                             | P               | S                                       | 19.0                           | TH   |
| DKW 105           | 425327   | 720115    | Blanchette          | 1989           | 328.0                            | --                        | 79.0                             | --              | X                                       | --                             | BrW  |
| DKW 106           | 425405   | 720126    | Carrs Store Assoc.  | 1988           | 330.0                            | --                        | 18.0                             | --              | S                                       | --                             | TH   |
| Cheshire County   |          |           |                     |                |                                  |                           |                                  |                 |   |                                |      |
| Dublin--Continued |          |           |                     |                |                                  |                           |                                  |                 |   |                                |      |
| HIA 1             | 425602   | 720046    | --                  | 1991           | 935.0                            | --                        | --                               | --              | --                                      | --                             | TH   |
| HIB 1             | 425556   | 720101    | NH Public Works     | --             | 947.0                            | --                        | --                               | --              | --                                      | --                             | TH   |
| HIB 3             | 425554   | 720100    | NH PUB WKS HWY      | --             | 950.0                            | --                        | --                               | --              | --                                      | --                             | TH   |
| HIW 7             | 425712   | 720553    | Bombach, E.W.       | 1950           | 1360.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 8             | 425634   | 720539    | Clark, John         | 1963           | 1270.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 13            | 425538   | 720055    | Eustis, R.S.        | 1900           | 970.0                            | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 15            | 425615   | 720353    | Gally, Henry        | 1994           | 1200.0                           | --                        | 29.0                             | --              | --                                      | --                             | BrW  |
| HIW 16            | 425638   | 720539    | Kangas, W.          | 1949           | 1290.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 17            | 425623   | 720531    | Karpi, Charles      | 1961           | 1250.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 18            | 425550   | 720205    | Pitts, Norman       | 1960           | 1040.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 26            | 425734   | 720631    | Van Zile, Edward B. | 1957           | 1480.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 27            | 425566   | 720419    | Wickman, Arthur     | 1953           | 1450.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 28            | 425546   | 720446    | Willard, Ralph      | 1952           | 1470.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 30            | 425627   | 720403    | Young, Herbert      | 1948           | 1210.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 31            | 425603   | 720546    | --                  | --             | 1350.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 32            | 425607   | 720540    | --                  | --             | 1290.0                           | --                        | --                               | --              | --                                      | --                             | BrW  |
| HIW 34            | 425549   | 720237    | Caswell             | 1984           | 1120.0                           | --                        | 59.0                             | --              | X                                       | --                             | BrW  |
| HIW 35            | 425559   | 720455    | --                  | 1984           | 1350.0                           | --                        | 41.0                             | --              | X                                       | --                             | BrW  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Depth (feet) | Water level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks                                |
|-------------------|--------------|-----------------------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|--|
| DKW 90            | 20.0         | 04-06-86                    | H                    | 6.0                     | --              | --                             | 2.0                    |  |
| DKW 91            | --           | -----                       | H                    | 2.0                     | --              | --                             | 2.0                    |  |
| DKW 92            | --           | -----                       | H                    | 50.0                    | --              | --                             | 1.0                    |  |
| DKW 93            | 70.0         | 11-22-87                    | H                    | 15.0                    | --              | --                             | 2.0                    |  |
| DKW 94            | --           | -----                       | H                    | 3.5                     | --              | --                             | 1.8                    |  |
| DKW 95            | --           | -----                       | H                    | 2.0                     | --              | --                             | 2.0                    |  |
| DKW 96            | 35.0         | 04-14-88                    | H                    | 7.5                     | --              | --                             | 4.0                    |  |
| DKW 103           | 3.3          | 06-22-89                    | T                    | 3.0                     | 5.4             | 0.6                            | 13                     | USGS:Z                                 |
| DKW 105           | 40.0         | 08-17-89                    | H                    | 9.0                     | --              | --                             | 1.0                    |  |
| DKW 106           | --           | -----                       | O                    | --                      | --              | --                             | --                     |  |
| Cheshire County   |              |                             |                      |                         |                 |                                |                        |  |
| Dublin--Continued |              |                             |                      |                         |                 |                                |                        |  |
| HIA 1             | --           | -----                       | T                    | --                      | --              | --                             | --                     | USGS:Z                                 |
| HIB 1             | --           | -----                       | O                    | --                      | --              | --                             | --                     | RT 137 over Hubanusit Brook No. 4 of 5 |
| HIB 3             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 194/072 boring 4                |
| HIW 7             | --           | -----                       | H                    | 10.0                    | --              | --                             | --                     | Bedrock                                |
| HIW 8             | 10.0         | -----63                     | H                    | 4.0                     | --              | --                             | --                     | Bedrock                                |
| HIW 13            | 40.0         | -----00                     | H                    | 3.0                     | --              | --                             | --                     | Bedrock                                |
| HIW 15            | --           | -----                       | H                    | --                      | --              | --                             | --                     | Bedrock                                |
| HIW 16            | 15.0         | -----49                     | H                    | 20.0                    | --              | --                             | --                     | Bedrock                                |
| HIW 17            | --           | -----                       | H                    | 9.0                     | --              | --                             | --                     | Bedrock                                |
| HIW 18            | --           | -----                       | H                    | 4.0                     | --              | --                             | --                     | Bedrock                                |
| HIW 26            | 20.0         | -----57                     | H                    | 6.0                     | --              | --                             | --                     | Bedrock                                |
| HIW 27            | --           | -----                       | H                    | 20.0                    | --              | --                             | --                     | Bedrock                                |
| HIW 28            | --           | -----                       | H                    | 20.0                    | --              | --                             | --                     | Bedrock                                |
| HIW 30            | --           | -----                       | H                    | 2.0                     | --              | --                             | --                     | Bedrock                                |
| HIW 31            | --           | -----                       | O                    | --                      | --              | --                             | --                     |  |
| HIW 32            | --           | -----                       | O                    | --                      | --              | --                             | --                     |  |
| HIW 34            | --           | -----                       | H                    | 1.0                     | --              | --                             | --                     |  |
| HIW 35            | 10.0         | 07-12-84                    | H                    | 20.0                    | --              | --                             | 1.3                    |  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user  | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or open well (feet) | Depth to bottom of well (feet) | Type of well (spring) | Remarks                                      |
|-------------------|----------|-----------|----------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|--|--------------------------------|-----------------------|--|
| H1W 38            | 425710   | 720555    | --             | 1984           | 1330.0                           | --                        | 25.0                             | --              | X  | --                             | BrW                   |  |
| H1W 39            | 425715   | 720555    | --             | 1985           | 1340.0                           | --                        | 39.0                             | --              | X  | --                             | BrW                   |  |
| H1W 40            | 425605   | 720427    | --             | 1985           | 1210.0                           | --                        | 114.0                            | --              | X  | --                             | BrW                   |  |
| H1W 41            | 425632   | 720215    | --             | 1985           | 1040.0                           | --                        | 39.0                             | --              | X  | --                             | BrW                   |  |
| H1W 43            | 425629   | 720532    | --             | 1985           | 1230.0                           | --                        | --                               | --              | X  | --                             | BrW                   |  |
| H1W 44            | 425532   | 720355    | --             | 1985           | 1380.0                           | --                        | 106.0                            | --              | X  | --                             | BrW                   |  |
| H1W 45            | 425640   | 720617    | --             | 1985           | 1320.0                           | --                        | 99.0                             | --              | X  | --                             | BrW                   |  |
| H1W 46            | 425626   | 720405    | --             | 1985           | 1220.0                           | --                        | 20.0                             | --              | X  | --                             | BrW                   |  |
| H1W 47            | 425705   | 720558    | --             | 1985           | 1330.0                           | --                        | 91.0                             | --              | X  | --                             | BrW                   |  |
| H1W 48            | 425541   | 720311    | --             | 1985           | 1240.0                           | --                        | 21.0                             | --              | X  | --                             | BrW                   |  |
| H1W 49            | 425605   | 720513    | --             | 1986           | 1340.0                           | --                        | 52.0                             | --              | X  | --                             | BrW                   |  |
| H1W 52            | 425615   | 720512    | --             | 1986           | 1220.0                           | --                        | 20.0                             | --              | X  | --                             | BrW                   |  |
| H1W 53            | 425641   | 720553    | --             | 1986           | 1340.0                           | --                        | 62.0                             | --              | X  | --                             | BrW                   |  |
| H1W 55            | 423558   | 720446    | --             | 1986           | 1380.0                           | --                        | 41.0                             | --              | X  | --                             | BrW                   |  |
| H1W 57            | 425530   | 720226    | --             | 1986           | 1260.0                           | --                        | 159.0                            | --              | X  | --                             | BrW                   |  |
| H1W 59            | 425611   | 720509    | --             | 1986           | 1240.0                           | --                        | 19.0                             | --              | X  | --                             | BrW                   |  |
| H1W 60            | 425646   | 720600    | --             | 1987           | 1340.0                           | --                        | 59.0                             | --              | X  | --                             | BrW                   |  |
| H1W 61            | 425517   | 720022    | --             | 1986           | 1000.0                           | --                        | 39.0                             | --              | X  | --                             | BrW                   |  |
| H1W 62            | 425545   | 720448    | --             | 1987           | 1470.0                           | --                        | 92.0                             | --              | X  | --                             | BrW                   |  |
| H1W 63            | 425642   | 720555    | --             | 1986           | 1340.0                           | --                        | 72.0                             | --              | X  | --                             | BrW                   |  |
| H1W 66            | 425754   | 720431    | --             | 1985           | 1650.0                           | --                        | 67.0                             | --              | X  | --                             | BrW                   |  |
| H1W 76            | 425352   | 720228    | McLeod         | 1988           | 330.0                            | --                        | 41.0                             | --              | X  | --                             | BrW                   |  |
| H1W 77            | 425526   | 720034    | Hebb           | 1988           | 394.0                            | --                        | 121.0                            | --              | X  | --                             | BrW                   |  |
| H1W 78            | 425527   | 720038    | Hebb           | 1989           | 394.0                            | --                        | 39.0                             | --              | X  | --                             | BrW                   |  |
| JBB 1             | 424904   | 720123    | --             | 1936           | 970.0                            | --                        | 11.0                             | --              | --   | --                             | TH                    | RT 202 over Contoocook River No.15 of 16     |
| JBB 2             | 424926   | 715949    | --             | --             | 940.0                            | --                        | --                               | --              | --   | --                             | TH                    | Contoocook Valley road over Contoocook River |
| JBB 3             | 424859   | 720022    | NH PUB WKS HWY | --             | 960.0                            | --                        | --                               | --              | --   | --                             | TH                    | Bridge 171/087 boring 11                     |
| JBB 4             | 424902   | 720016    | NH PUB WKS HWY | --             | 960.0                            | --                        | --                               | --              | --   | --                             | TH                    | Bridge 175/089 boring 15                     |

A-10

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                                      |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|------------------|----------------------------------|------------------------|--|
| H1W 38            | 4.0                      | 10-26-84        | H                    | 15.0                    | --               | --                               | 1.0                    |  |
| H1W 39            | 12.0                     | 06-06-85        | H                    | .8                      | --               | --                               | --                     |  |
| H1W 40            | --                       | ----            | H                    | 5.0                     | --               | --                               | --                     |  |
| H1W 41            | 5.0                      | 06-21-85        | H                    | 3.0                     | --               | --                               | --                     |  |
| H1W 43            | 30.0                     | 08-06-85        | H                    | 5.0                     | --               | --                               | --                     |  |
| H1W 44            | --                       | ----            | H                    | 3.0                     | --               | --                               | 2.5                    |  |
| H1W 45            | --                       | ----            | H                    | 5.0                     | --               | --                               | 2.5                    |  |
| H1W 46            | --                       | ----            | H                    | 3.0                     | --               | --                               | 5.0                    |  |
| H1W 47            | --                       | ----            | H                    | 3.0                     | --               | --                               | 2.5                    |  |
| H1W 48            | --                       | ----            | H                    | 5.0                     | --               | --                               | 2.0                    |  |
| H1W 49            | 40.0                     | 09-04-86        | H                    | 6.0                     | --               | --                               | 1.5                    |  |
| H1W 52            | --                       | ----            | H                    | 15.0                    | --               | --                               | 1.5                    |  |
| H1W 53            | 18.0                     | 05-08-86        | H                    | 6.0                     | --               | --                               | 2.0                    |  |
| H1W 55            | --                       | ----            | H                    | 25.0                    | --               | --                               | 1.3                    |  |
| H1W 57            | --                       | ----            | H                    | 20.0                    | --               | --                               | --                     |  |
| H1W 59            | --                       | ----            | H                    | 8.0                     | --               | --                               | --                     |  |
| H1W 60            | --                       | ----            | H                    | 8.0                     | --               | --                               | --                     |  |
| H1W 61            | --                       | ----            | H                    | 6.0                     | --               | --                               | --                     |  |
| H1W 62            | --                       | ----            | H                    | 6.0                     | --               | --                               | 1.0                    |  |
| H1W 63            | --                       | ----            | H                    | 2.0                     | --               | --                               | 1.5                    |  |
| H1W 66            | --                       | ----            | H                    | 75.0                    | --               | --                               | 1.0                    |  |
| H1W 76            | --                       | ----            | H                    | 3.0                     | --               | --                               | 1.0                    |  |
| H1W 77            | --                       | ----            | H                    | 60.0                    | --               | --                               | 1.0                    |  |
| H1W 78            | --                       | ----            | H                    | 60.0                    | --               | --                               | 1.0                    |  |
| JBB 1             | --                       | -----           | 0                    | --                      | --               | --                               | --                     | RT 202 over Contoocook River No.15 of 16     |
| JBB 2             | --                       | -----           | 0                    | --                      | --               | --                               | --                     | Contoocook Valley road over Contoocook River |
| JBB 3             | --                       | -----           | T                    | --                      | --               | --                               | --                     | Bridge 171/087 boring 11                     |
| JBB 4             | --                       | -----           | T                    | --                      | --               | --                               | --                     | Bridge 175/089 boring 15                     |

A-11

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user          | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of well (feet) | Type of finish section or open section | Depth to bottom of well (feet) | Type of well | Remarks |
|-------------------|----------|-----------|------------------------|----------------|----------------------------------|---------------------------|----------------------------------|--------------------------------|--|--------------------------------|--------------|---------|
| JBM 4             | 424825   | 720343    | Hunt, Leonard          | 1961           | 1070.0                           | --                        | 110.0                            | --                             | --                                     | --                             | BrW          |         |
| JBM 5             | 425100   | 720232    | Davis, Peter           | 1951           | 1240.0                           | --                        | 34.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 6             | 425018   | 720213    | Breadford, Arthur      | 1952           | 1150.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 7             | 424802   | 715913    | Bush, Harry            | 1900           | 1130.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 8             | 424800   | 720442    | Cederholm, John        | 1963           | 1030.0                           | --                        | 16.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 9             | 425023   | 720213    | Davis, Harold          | 1960           | 1180.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 10            | 425017   | 720043    | Duchenes, Joe          | 1960           | 1130.0                           | --                        | 54.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 11            | 425026   | 720031    | Duchenes, Paul         | 1956           | 1170.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 12            | 424840   | 715851    | Dillon, Gerald         | 1963           | 1080.0                           | --                        | 115.0                            | --                             | --                                     | --                             | BrW          |         |
| JBM 13            | 425042   | 720123    | Elliot, William G.     | 1957           | 1090.0                           | --                        | 66.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 14            | 425002   | 720652    | Emerson, David         | 1957           | 1500.0                           | --                        | 34.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 15            | 424959   | 720651    | Emerson, Tom           | 1900           | 1490.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 16            | 424754   | 720200    | Fields, John           | 1957           | 1080.0                           | --                        | 80.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 19            | 424759   | 715859    | Hernanson, Karl        | 1957           | 1120.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 20            | 425117   | 720337    | Hillsmith, Clarence    | 1962           | 1200.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 22            | 424816   | 720329    | Johnson, David M.      | 1959           | 1090.0                           | --                        | 133.0                            | --                             | --                                     | --                             | BrW          |         |
| JBM 24            | 424831   | 720218    | Hone, Wesley           | 1961           | 1110.0                           | --                        | 4.0                              | --                             | --                                     | --                             | BrW          |         |
| JBM 25            | 425021   | 720404    | Pierce, Carlos         | 1946           | 1180.0                           | --                        | 80.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 26            | 425042   | 720100    | Sirois                 | 1900           | 1140.0                           | --                        | --                               | --                             | --                                     | --                             | BrW          |         |
| JBM 27            | 425112   | 720120    | Soville, Bertie        | 1961           | 1200.0                           | --                        | 50.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 28            | 424851   | 720548    | Varce, Al              | 1962           | 1260.0                           | --                        | 68.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 30            | 424950   | 720635    | Wheeler, Henry         | 1961           | 1340.0                           | --                        | 48.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 31            | 424945   | 720631    | Ludlum                 | 1962           | 1310.0                           | --                        | 30.0                             | --                             | --                                     | --                             | BrW          |         |
| JBM 32            | 424900   | 720050    | W W Cross              | --             | 980.0                            | --                        | --                               | --                             | --                                     | --                             |              |         |
| JBM 33            | 424741   | 715954    | King Manufacturing Co. | --             | 1030.0                           | --                        | --                               | --                             | --                                     | 19.5                           |              |         |
| JBM 34            | 424744   | 715954    | King Manufacturing Co. | --             | 1030.0                           | --                        | --                               | --                             | --                                     | 49.8                           |              |         |
| JBM 37            | 424904   | 715945    | Jaffrey Solid Waste    | --             | 970.0                            | --                        | --                               | --                             | --                                     | --                             |              |         |
| JBM 38            | 424901   | 715947    | Jaffrey Solid Waste    | --             | 960.0                            | --                        | --                               | --                             | --                                     | --                             |              |         |
| JBM 39            | 424905   | 715957    | Jaffrey Solid Waste    | --             | 980.0                            | --                        | --                               | --                             | --                                     | --                             |              |         |
| JBM 40            | 424907   | 715946    | Jaffrey Solid Waste    | --             | 950.0                            | --                        | --                               | --                             | --                                     | --                             |              |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Depth (feet) | Water Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks   |
|-------------------|--------------------|-----------------------------|----------------------|-------------------------|------------------|----------------------------------|------------------------|-----------|
| JBM 4             | 25.0               | 12-11-61                    | H                    | 5.2                     | --               | --                               | --                     | Bedrock   |
| JBM 5             | 20.0               | 02-11-88                    | H                    | 9.0                     | --               | --                               | --                     | Bedrock   |
| JBM 6             | --                 | --                          | H                    | 1.5                     | --               | --                               | --                     | Bedrock   |
| JBM 7             | --                 | --                          | H                    | 10.0                    | --               | --                               | --                     | Bedrock   |
| JBM 8             | 12.0               | 01-11-63                    | H                    | .8                      | --               | --                               | --                     | Bedrock   |
| JBM 9             | 30.0               | 01-11-60                    | H                    | 3.0                     | --               | --                               | --                     | Bedrock   |
| JBM 10            | --                 | --                          | H                    | 18.0                    | --               | --                               | --                     | Bedrock   |
| JBM 11            | --                 | --                          | H                    | 3.0                     | --               | --                               | --                     | Bedrock   |
| JBM 12            | 60.0               | 06-11-63                    | H                    | 20.0                    | --               | --                               | --                     | Bedrock   |
| JBM 13            | 20.0               | 01-11-57                    | H                    | 15.0                    | --               | --                               | --                     | Bedrock   |
| JBM 14            | 4.0                | 01-11-57                    | H                    | 17.0                    | --               | --                               | --                     | Bedrock   |
| JBM 15            | 2.0                | 01-11-00                    | H                    | 30.0                    | --               | --                               | --                     | Bedrock   |
| JBM 16            | 25.0               | 08-11-57                    | H                    | 8.0                     | --               | --                               | --                     | Bedrock   |
| JBM 19            | 25.0               | 01-11-57                    | H                    | 4.0                     | --               | --                               | --                     | Bedrock   |
| JBM 20            | --                 | --                          | H                    | 30.0                    | --               | --                               | --                     | Bedrock   |
| JBM 22            | 60.0               | 01-11-59                    | H                    | 4.0                     | --               | --                               | --                     | Bedrock   |
| JBM 24            | --                 | --                          | H                    | 8.0                     | --               | --                               | --                     | Bedrock   |
| JBM 25            | --                 | --                          | H                    | 20.0                    | --               | --                               | --                     | Bedrock   |
| JBM 26            | 30.0               | 01-11-00                    | H                    | 10.0                    | --               | --                               | --                     | Bedrock   |
| JBM 27            | 40.0               | 05-11-61                    | H                    | 10.0                    | --               | --                               | --                     | Bedrock   |
| JBM 28            | 20.0               | 01-11-62                    | H                    | 18.0                    | --               | --                               | --                     | Bedrock   |
| JBM 30            | 34.0               | 01-11-61                    | H                    | 35.0                    | --               | --                               | --                     | Bedrock   |
| JBM 31            | --                 | --                          | H                    | 150.0                   | --               | --                               | --                     | Bedrock   |
| JBM 32            | 8.0                | 12-20-82                    | O                    | --                      | --               | --                               | --                     | RCRA site |
| JBM 33            | 6.4                | 12-20-83                    | O                    | --                      | --               | --                               | --                     | RCRA site |
| JBM 34            | 7.1                | 12-08-83                    | O                    | --                      | --               | --                               | --                     |           |
| JBM 37            | 40.7               | 09-11-87                    | O                    | --                      | --               | --                               | --                     |           |
| JBM 38            | 40.6               | 09-11-87                    | O                    | --                      | --               | --                               | --                     |           |
| JBM 39            | 8.9                | 09-11-87                    | O                    | --                      | --               | --                               | --                     |           |
| JBM 40            | 11.4               | 09-11-87                    | O                    | --                      | --               | --                               | --                     |           |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring | Type of well |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
|                   |          |           |                     |                |                                  |                           |                                  |                 |                |  |              |
| JBW 41            | 424911   | 715937    | Jeffrey Solid Waste | --             | 950.0                            | --                        | --                               | --              | --             | --   | --           |
| JBW 43            | 424838   | 720047    | Town of Jeffrey     | --             | 990.0                            | --                        | --                               | --              | 53.0           | --   | --           |
| JBW 44            | 424731   | 720007    | Town of Jeffrey     | --             | 1010.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 45            | 424927   | 715857    | Town of Jeffrey     | --             | 910.0                            | --                        | --                               | --              | --             | --   | --           |
| JBW 46            | 424925   | 715857    | Town of Jeffrey     | --             | 910.0                            | --                        | --                               | --              | --             | --   | --           |
| JBW 47            | 424733   | 715941    | Town of Jeffrey     | --             | 1030.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 48            | 424726   | 715922    | Town of Jeffrey     | --             | 1030.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 49            | 424750   | 720003    | Town of Jeffrey     | --             | 1030.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 50            | 424903   | 720051    | Town of Jeffrey     | --             | 990.0                            | --                        | --                               | --              | --             | --   | --           |
| JBW 51            | 424905   | 720031    | Town of Jeffrey     | --             | 1000.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 52            | 424919   | 720105    | Town of Jeffrey     | --             | 980.0                            | --                        | --                               | --              | --             | --   | --           |
| JBW 53            | 424843   | 720053    | Town of Jeffrey     | --             | 990.0                            | --                        | --                               | --              | --             | --   | --           |
| JBW 54            | 424843   | 720042    | Town of Jeffrey     | --             | 1000.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 55            | 424747   | 720106    | Town of Jeffrey     | --             | 1050.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 56            | 424739   | 720110    | Town of Jeffrey     | --             | 1020.0                           | --                        | --                               | --              | --             | --   | --           |
| JBW 58            | 425038   | 720049    | Morello             | 1984           | 1140.0                           | --                        | 59.0                             | X               | --             | BrW  | --           |
| JBW 59            | 424854   | 720606    | Getty Jr.           | 1984           | 1240.0                           | --                        | 19.0                             | X               | --             | BrW  | --           |
| JBW 60            | 424954   | 720503    | Royce Jr.           | 1984           | 1120.0                           | --                        | 18.0                             | X               | --             | BrW  | --           |
| JBW 61            | 424852   | 720437    | Royce               | 1984           | 1140.0                           | --                        | 72.0                             | X               | --             | BrW  | --           |
| JBW 62            | 424830   | 720300    | Palmer              | 1984           | 1080.0                           | --                        | 135.0                            | X               | --             | BrW  | --           |
| JBW 63            | 424947   | 720807    | Hamilton            | 1984           | 1240.0                           | --                        | 20.0                             | X               | --             | BrW  | --           |
| JBW 64            | 424947   | 720506    | Parker              | 1984           | 1100.0                           | --                        | 21.0                             | X               | --             | BrW  | --           |
| JBW 65            | 425019   | 720137    | Medeiros            | 1984           | 1010.0                           | --                        | 24.0                             | X               | --             | BrW  | --           |
| JBW 66            | 424929   | 720200    | Blanchette          | 1985           | 1120.0                           | --                        | 126.0                            | X               | --             | BrW  | --           |
| JBW 69            | 424855   | 720609    | Williams            | 1985           | 1230.0                           | --                        | 32.0                             | X               | --             | BrW  | --           |
| JBW 70            | 424936   | 720000    | Pratt               | 1985           | 1070.0                           | --                        | 189.0                            | X               | --             | BrW  | --           |
| JBW 71            | 424955   | 720049    | Blaquzewski         | 1985           | 1060.0                           | --                        | 134.0                            | X               | --             | BrW  | --           |
| JBW 72            | 424944   | 715956    | Roberts             | 1985           | 1120.0                           | --                        | 199.0                            | X               | --             | BrW  | --           |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Depth (feet) | Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal./min)/ft) | Pumping period (hours) | Remarks                         |
|-------------------|--------------------|-----------------------|----------------------|-------------------------|-----------------|-----------------------------------|------------------------|---------------------------------|
|                   |                    |                       |                      |                         |                 |                                   |                        |                                 |
| JBW 41            | 13.1               | 09-08-87              | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 43            | 5.0                | 11-20-56              | P                    | 139.0                   | 14.0            | 29.3                              | --                     | Municipal supply well           |
| JBW 44            | 2.1                | 10-11-77              | P                    | 350.0                   | 16.0            | 23.2                              | 216                    | Municipal supply well           |
| JBW 45            | 16.3               | 10-25-79              | O                    | 250.0                   | 29.6            | 17.0                              | --                     | Potential municipal supply well |
| JBW 46            | 38.0               | 08-28-78              | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 46            | 13.0               | 10-24-78              | T                    | 780.0                   | 52.0            | 15.0                              | 360                    | --                              |
| JBW 47            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 48            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 49            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 50            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 51            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 52            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 53            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 54            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 55            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 56            | --                 | -----                 | O                    | --                      | --              | --                                | --                     | --                              |
| JBW 58            | --                 | -----                 | H                    | 1.0                     | --              | --                                | 1.0                    | --                              |
| JBW 59            | 4.0                | 08-30-84              | H                    | 30.0                    | --              | --                                | 2.0                    | --                              |
| JBW 60            | --                 | -----                 | H                    | 20.0                    | --              | --                                | 4.0                    | --                              |
| JBW 61            | 20.0               | 07-30-84              | H                    | 3.0                     | --              | --                                | 2.0                    | --                              |
| JBW 62            | 20.0               | 08-21-84              | H                    | 5.0                     | --              | --                                | 2.0                    | --                              |
| JBW 63            | 10.0               | 07-28-84              | H                    | 30.0                    | --              | --                                | 1.0                    | --                              |
| JBW 64            | --                 | -----                 | H                    | 7.0                     | --              | --                                | 1.0                    | --                              |
| JBW 65            | 20.0               | 06-16-84              | H                    | 5.0                     | --              | --                                | 1.0                    | --                              |
| JBW 66            | --                 | -----                 | H                    | 20.0                    | --              | --                                | 2.0                    | --                              |
| JBW 69            | 20.0               | 08-05-85              | H                    | 8.0                     | --              | --                                | 1.0                    | --                              |
| JBW 70            | 30.0               | 04-27-85              | H                    | 10.0                    | --              | --                                | 2.8                    | --                              |
| JBW 71            | 20.0               | 03-30-85              | H                    | 6.0                     | --              | --                                | --                     | --                              |
| JBW 72            | 150.0              | 12-06-85              | H                    | 7.0                     | --              | --                                | 1.0                    | --                              |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or | Depth to bottom of open well (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---------------------------|-------------------------------------|--------------|
| JBW 73            | 425057   | 720120    | Given                 | 1985           | 1140.0                           | --                        | 11.0                             | --              | X                         | --                                  | BrW          |
| JBW 74            | 424959   | 720105    | Haskell               | 1985           | 1050.0                           | --                        | 19.0                             | --              | X                         | --                                  | BrW          |
| JBW 75            | 425146   | 720058    | Cedarwood Development | 1985           | 1120.0                           | --                        | 57.0                             | --              | X                         | --                                  | BrW          |
| JBW 76            | 425141   | 720055    | Cedarwood Development | 1985           | 1100.0                           | --                        | 79.0                             | --              | X                         | --                                  | BrW          |
| JBW 78            | 425154   | 720105    | Cedarwood Development | 1985           | 1130.0                           | --                        | 61.0                             | --              | X                         | --                                  | BrW          |
| JBW 79            | 425001   | 720121    | Legasse               | 1985           | 980.0                            | --                        | 19.0                             | --              | X                         | --                                  | BrW          |
| JBW 80            | 424817   | 720421    | Gravel                | 1985           | 1100.0                           | --                        | 25.0                             | --              | X                         | --                                  | BrW          |
| JBW 81            | 424958   | 720116    | Given                 | 1985           | 980.0                            | --                        | 19.0                             | --              | X                         | --                                  | BrW          |
| JBW 82            | 425142   | 720030    | Tripp                 | 1986           | 1160.0                           | --                        | 94.0                             | --              | X                         | --                                  | BrW          |
| JBW 83            | 424843   | 720554    | LeCroix               | 1986           | 1260.0                           | --                        | 19.0                             | --              | X                         | --                                  | BrW          |
| JBW 85            | 425135   | 720055    | Cedarwood Development | 1986           | 1060.0                           | --                        | 29.0                             | --              | X                         | --                                  | BrW          |
| JBW 86            | 425015   | 715925    | Andella Homes         | 1985           | 970.0                            | --                        | 59.0                             | --              | X                         | --                                  | BrW          |
| JBW 88            | 425012   | 715929    | Andella Homes         | 1985           | 1000.0                           | --                        | 59.0                             | --              | X                         | --                                  | BrW          |
| JBW 90            | 425027   | 720103    | Foley                 | 1986           | 1080.0                           | --                        | 27.0                             | --              | X                         | --                                  | BrW          |
| JBW 91            | 425148   | 720055    | Foley                 | 1986           | 1130.0                           | --                        | 83.0                             | --              | X                         | --                                  | BrW          |
| JBW 95            | 424919   | 715937    | Park Construction     | 1986           | 980.0                            | --                        | 23.0                             | --              | X                         | --                                  | BrW          |
| JBW 96            | 425019   | 720200    | Charbonneau           | 1986           | 1200.0                           | --                        | 227.0                            | --              | X                         | --                                  | BrW          |
| JBW 97            | 424957   | 715921    | Broden Construction   | 1986           | 940.0                            | --                        | 69.0                             | --              | X                         | --                                  | BrW          |
| JBW 98            | 425000   | 715921    | Broden Construction   | 1986           | 940.0                            | --                        | 49.0                             | --              | X                         | --                                  | BrW          |
| JBW 99            | 424751   | 715856    | Millipore Corporation | 1986           | 1120.0                           | --                        | 48.0                             | --              | X                         | --                                  | BrW          |
| JBW 100           | 424857   | 715918    | Charlonne             | 1985           | 960.0                            | --                        | 27.0                             | --              | X                         | --                                  | BrW          |
| JBW 101           | 424913   | 715929    | Spoon                 | 1985           | 980.0                            | --                        | 40.0                             | --              | X                         | --                                  | BrW          |
| JBW 102           | 425009   | 720122    | MacKenzie             | 1985           | 1020.0                           | --                        | 62.0                             | --              | X                         | --                                  | BrW          |
| JBW 103           | 425009   | 720122    | MacKenzie             | 1986           | 1000.0                           | --                        | 39.0                             | --              | X                         | --                                  | BrW          |
| JBW 104           | 425016   | 715928    | Andella Homes Inc.    | 1985           | 980.0                            | --                        | 47.0                             | --              | X                         | --                                  | BrW          |
| JBW 105           | 425010   | 715929    | Andella Homes Inc.    | 1985           | 1000.0                           | --                        | 56.0                             | --              | X                         | --                                  | BrW          |
| JBW 106           | 425009   | 715921    | Andella Homes Inc.    | 1985           | 950.0                            | --                        | 41.0                             | --              | X                         | --                                  | BrW          |
| JBW 107           | 424850   | 720025    | Pederson              | 1985           | 1180.0                           | --                        | 21.0                             | --              | X                         | --                                  | BrW          |
| JBW 108           | 425115   | 720119    | Mielson               | 1986           | 1200.0                           | --                        | 83.0                             | --              | X                         | --                                  | BrW          |
| JBW 109           | 424951   | 715934    | Andella Homes Inc.    | 1986           | 960.0                            | --                        | 119.0                            | --              | X                         | --                                  | BrW          |

Cheshire County

Jaffrey--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|---------|
| JBW 73            | 30.0                        | 11-14-85             | H                            | 12.0            | --                               | --                     | 1.0     |
| JBW 74            | --                          | ----                 | H                            | 3.0             | --                               | --                     | 1.5     |
| JBW 75            | 20.0                        | 11-13-85             | H                            | 4.5             | --                               | --                     | 1.0     |
| JBW 76            | 35.0                        | 11-13-85             | H                            | 70.0            | --                               | --                     | 1.0     |
| JBW 78            | 23.0                        | 11-12-85             | H                            | 7.0             | --                               | --                     | 1.0     |
| JBW 79            | 30.0                        | 12-04-85             | H                            | 4.8             | --                               | --                     | 2.0     |
| JBW 80            | 15.0                        | 04-07-85             | H                            | 15.0            | --                               | --                     | 4.0     |
| JBW 81            | 6.0                         | 12-28-85             | H                            | 15.0            | --                               | --                     | 3.0     |
| JBW 82            | 80.0                        | 02-13-86             | H                            | 7.5             | --                               | --                     | 1.0     |
| JBW 83            | 35.0                        | 01-10-86             | H                            | 4.5             | --                               | --                     | 1.0     |
| JBW 85            | --                          | ----                 | H                            | 3.0             | --                               | --                     | 1.5     |
| JBW 86            | 40.0                        | 06-28-85             | H                            | 30.0            | --                               | --                     | 1.0     |
| JBW 88            | 45.0                        | 06-28-85             | H                            | 3.5             | --                               | --                     | 1.0     |
| JBW 90            | --                          | ----                 | H                            | 4.0             | --                               | --                     | --      |
| JBW 91            | --                          | ----                 | H                            | 3.8             | --                               | --                     | 1.5     |
| JBW 95            | 32.0                        | 08-21-86             | H                            | 4.0             | --                               | --                     | 2.0     |
| JBW 96            | --                          | ----                 | H                            | 12.0            | --                               | --                     | 1.5     |
| JBW 97            | 30.0                        | 12-08-86             | H                            | 50.0            | --                               | --                     | 1.0     |
| JBW 98            | 30.0                        | 12-05-86             | H                            | 100.0           | --                               | --                     | 1.0     |
| JBW 99            | 16.0                        | 07-19-86             | H                            | 15.0            | --                               | --                     | 2.8     |
| JBW 100           | --                          | ----                 | H                            | 60.0            | --                               | --                     | 1.3     |
| JBW 101           | --                          | ----                 | H                            | 5.0             | --                               | --                     | 2.0     |
| JBW 102           | --                          | ----                 | H                            | .7              | --                               | --                     | 5.0     |
| JBW 103           | --                          | ----                 | H                            | 12.0            | --                               | --                     | 3.0     |
| JBW 104           | --                          | ----                 | H                            | 1.0             | --                               | --                     | 2.5     |
| JBW 105           | --                          | ----                 | H                            | 1.0             | --                               | --                     | 2.5     |
| JBW 106           | --                          | ----                 | H                            | 1.5             | --                               | --                     | 2.3     |
| JBW 107           | --                          | ----                 | H                            | 3.5             | --                               | --                     | 1.5     |
| JBW 108           | --                          | ----                 | H                            | 4.0             | --                               | --                     | 2.0     |
| JBW 109           | --                          | ----                 | H                            | 7.5             | --                               | --                     | .5      |

Cheshire County

Jaffrey--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|

Cheshire County

Jeffrey--Continued

|         |        |        |                      |      |        |    |       |    |   |     |
|---------|--------|--------|----------------------|------|--------|----|-------|----|---|-----|
| JBW 110 | 424949 | 715952 | Bellelete            | 1986 | 980.0  | -- | 117.0 | -- | X | BRW |
| JBW 111 | 425009 | 720118 | Kafecian             | 1986 | 1000.0 | -- | 26.0  | -- | X | BRW |
| JBW 112 | 425030 | 720101 | Haskell              | 1986 | 1100.0 | -- | 15.0  | -- | X | BRW |
| JBW 113 | 424833 | 720139 | Olson                | 1987 | 1060.0 | -- | 83.0  | -- | X | BRW |
| JBW 114 | 424955 | 715928 | Andella Homes Inc.   | 1986 | 970.0  | -- | 99.0  | -- | X | BRW |
| JBW 116 | 425148 | 715950 | Murphy               | 1987 | 1040.0 | -- | 81.0  | -- | X | BRW |
| JBW 117 | 425125 | 720343 | Gagnon Construction  | 1987 | 1170.0 | -- | 47.0  | -- | X | BRW |
| JBW 118 | 424737 | 720211 | Nutting Construction | 1987 | 1100.0 | -- | 141.0 | -- | X | BRW |
| JBW 119 | 425139 | 720121 | Foley                | 1987 | 1100.0 | -- | 83.0  | -- | X | BRW |
| JBW 120 | 424915 | 720403 | HG Construction      | 1987 | 1080.0 | -- | 19.0  | -- | X | BRW |
| JBW 122 | 424836 | 720218 | Vanness              | 1987 | 1100.0 | -- | 164.0 | -- | X | BRW |
| JBW 123 | 424740 | 720210 | Gagnon               | 1987 | 1090.0 | -- | 117.0 | -- | X | BRW |
| JBW 124 | 425016 | 720204 | Smith                | 1987 | 1180.0 | -- | 189.0 | -- | X | BRW |
| JBW 125 | 424838 | 720333 | Kirsh                | 1986 | 1060.0 | -- | 199.0 | -- | X | BRW |
| JBW 126 | 424943 | 720112 | Letourneau           | 1986 | 990.0  | -- | 44.0  | -- | X | BRW |
| JBW 127 | 424943 | 720109 | Letourneau           | 1986 | 970.0  | -- | 24.0  | -- | X | BRW |
| JBW 128 | 425015 | 715911 | Beird                | 1986 | 940.0  | -- | 149.0 | -- | X | BRW |
| JBW 129 | 424851 | 720507 | McKenna              | 1986 | 1200.0 | -- | 169.0 | -- | X | BRW |
| JBW 130 | 424951 | 720551 | Wyatt                | 1987 | 1260.0 | -- | 20.0  | -- | X | BRW |
| JBW 131 | 425018 | 720143 | Korpi                | 1987 | 1040.0 | -- | 87.0  | -- | X | BRW |
| JBW 132 | 425028 | 720209 | Mitchell             | 1987 | 1130.0 | -- | 99.0  | -- | X | BRW |
| JBW 133 | 425023 | 720200 | Lambert              | 1987 | 1220.0 | -- | 271.0 | -- | X | BRW |
| JBW 134 | 424807 | 720414 | Hoover               | 1987 | 1100.0 | -- | 65.0  | -- | X | BRW |
| JBW 135 | 424815 | 720424 | Rivard               | 1987 | 1100.0 | -- | 62.0  | -- | X | BRW |
| JBW 136 | 424957 | 715930 | Andella Homes        | 1986 | 970.0  | -- | 72.0  | -- | X | BRW |
| JBW 138 | 425004 | 720102 | Bennett              | 1987 | 1080.0 | -- | 39.0  | -- | X | BRW |
| JBW 140 | 424953 | 720641 | Bliss                | 1987 | 1360.0 | -- | 79.0  | -- | X | BRW |
| JBW 142 | 424907 | 720442 | Gordon               | 1987 | 1200.0 | -- | 137.0 | -- | X | BRW |
| JBW 143 | 424951 | 720637 | Massey               | 1987 | 1330.0 | -- | 49.0  | -- | X | BRW |
| JBW 145 | 425015 | 720103 | Merwin               | 1987 | 1140.0 | -- | 19.0  | -- | X | BRW |

| Local site number | Latitude | Longitude | Use of site or water | Water Level Date (mm-dd-yy) | Depth (feet) | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks |
|-------------------|----------|-----------|----------------------|-----------------------------|--------------|-------------------------|------------------|--------------------------------|------------------------|---------|
|-------------------|----------|-----------|----------------------|-----------------------------|--------------|-------------------------|------------------|--------------------------------|------------------------|---------|

Cheshire County

Jeffrey--Continued

|         |      |      |   |          |      |      |    |    |     |  |
|---------|------|------|---|----------|------|------|----|----|-----|--|
| JBW 110 | --   | --   | H | 12-10-86 | 15.0 | 30.0 | -- | -- | .5  |  |
| JBW 111 | 15.0 | 30.0 | H | 12-11-86 | 3.0  | 5.0  | -- | -- | 1.0 |  |
| JBW 112 | 30.0 | 30.0 | H | 12-11-86 | 3.0  | 5.0  | -- | -- | 2.0 |  |
| JBW 113 | --   | --   | H | -----    | --   | 5.0  | -- | -- | 2.0 |  |
| JBW 114 | --   | --   | H | -----    | --   | 20.0 | -- | -- | .5  |  |
| JBW 116 | 12.0 | 12.0 | H | 01-28-87 | 8.0  | 8.0  | -- | -- | 1.0 |  |
| JBW 117 | 5.0  | 12.0 | H | 02-24-87 | 12.0 | 12.0 | -- | -- | 1.5 |  |
| JBW 118 | --   | 4.0  | H | -----    | --   | 4.0  | -- | -- | 2.0 |  |
| JBW 119 | 14.0 | 4.5  | H | 04-28-87 | 4.5  | 4.5  | -- | -- | 2.0 |  |
| JBW 120 | --   | 6.0  | H | -----    | --   | 6.0  | -- | -- | 1.0 |  |
| JBW 122 | --   | 30.0 | H | -----    | --   | 30.0 | -- | -- | .5  |  |
| JBW 123 | 36.0 | 4.5  | H | 05-18-87 | 12.0 | 12.0 | -- | -- | 1.5 |  |
| JBW 124 | --   | 12.0 | H | -----    | --   | 12.0 | -- | -- | 1.5 |  |
| JBW 125 | 8.0  | 3.0  | H | 11-07-86 | 3.0  | 3.0  | -- | -- | --  |  |
| JBW 126 | 3.0  | 15.0 | H | 10-03-86 | 3.0  | 15.0 | -- | -- | --  |  |
| JBW 127 | 25.0 | 10.0 | H | 10-03-86 | 10.0 | 10.0 | -- | -- | --  |  |
| JBW 128 | 60.0 | 6.0  | H | 06-24-86 | 6.0  | 6.0  | -- | -- | --  |  |
| JBW 129 | --   | 5.0  | H | -----    | --   | 5.0  | -- | -- | --  |  |
| JBW 130 | --   | 12.0 | H | -----    | --   | 12.0 | -- | -- | 2.0 |  |
| JBW 131 | --   | 2.0  | H | -----    | --   | 2.0  | -- | -- | .5  |  |
| JBW 132 | --   | 60.0 | H | -----    | --   | 60.0 | -- | -- | 1.0 |  |
| JBW 133 | --   | 5.5  | H | -----    | --   | 5.5  | -- | -- | 2.0 |  |
| JBW 134 | --   | 4.0  | H | -----    | --   | 4.0  | -- | -- | 1.5 |  |
| JBW 135 | 22.0 | 3.0  | H | 10-07-87 | 3.0  | 3.0  | -- | -- | 1.5 |  |
| JBW 136 | --   | 60.0 | H | -----    | --   | 60.0 | -- | -- | .5  |  |
| JBW 138 | 20.0 | 5.0  | H | 12-16-87 | 5.0  | 5.0  | -- | -- | 2.0 |  |
| JBW 140 | 4.0  | 30.0 | H | 11-05-87 | 30.0 | 30.0 | -- | -- | 2.0 |  |
| JBW 142 | --   | 2.3  | H | -----    | --   | 2.3  | -- | -- | 1.0 |  |
| JBW 143 | --   | 60.0 | H | -----    | --   | 60.0 | -- | -- | 1.0 |  |
| JBW 145 | 34.0 | 4.0  | H | 12-05-87 | 4.0  | 4.0  | -- | -- | .8  |  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user          | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section (feet) | Type of well or section |
|-------------------|----------|-----------|------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|-------------------------|
| Cheshire County   |          |           |                        |                |                                  |                           |                                  |                 |                |  |                         |
| Nelson            |          |           |                        |                |                                  |                           |                                  |                 |                |  |                         |
| NBW 24            | 425827   | 720609    | Milbank, Robbins       | 1959           | 1480.0                           | --                        | 27.0                             | --              | --             | --                                     | BrW                     |
| NBW 25            | 425835   | 720613    | Teeters, Leroy         | 1964           | 1450.0                           | --                        | 90.0                             | --              | --             | --                                     | BrW                     |
| NBW 37            | 425834   | 720509    | --                     | 1987           | 1400.0                           | --                        | 54.0                             | --              | X              | --                                     | BrW                     |
| NBW 43            | 425846   | 720509    | --                     | 1985           | 1460.0                           | --                        | 17.0                             | --              | X              | --                                     | BrW                     |
| NBW 46            | 425912   | 720540    | --                     | 1985           | 1670.0                           | --                        | 19.0                             | --              | X              | --                                     | BrW                     |
| Rindge            |          |           |                        |                |                                  |                           |                                  |                 |                |  |                         |
| RGW 1             | 424602   | 715808    | Boy Scout Camp         | 1953           | 1140.0                           | --                        | 55.0                             | --              | --             | --                                     | BrW                     |
| RGW 2             | 424603   | 720222    | Caton, F.B.            | 1959           | 1030.0                           | --                        | 44.0                             | --              | --             | --                                     | BrW                     |
| RGW 3             | 424604   | 720029    | French, Edith          | 1964           | 1260.0                           | --                        | 93.0                             | --              | --             | --                                     | BrW                     |
| RGW 4             | 424554   | 720211    | Garfield & Le Tourneau | 1958           | 1060.0                           | --                        | 50.0                             | --              | --             | --                                     | BrW                     |
| RGW 5             | 424557   | 720209    | Gilmore, L.            | 1954           | 1050.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 6             | 424552   | 720211    | Hoyt, Frederic         | 1946           | 1060.0                           | --                        | 20.0                             | --              | --             | --                                     | BrW                     |
| RGW 7             | 424602   | 715942    | Kallianen, Calvin R.   | 1961           | 1240.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 8             | 424538   | 720126    | Mcniel, James J.       | 1982           | 1220.0                           | --                        | 159.0                            | --              | --             | --                                     | BrW                     |
| RGW 9             | 424602   | 720203    | Popple                 | 1959           | 1050.0                           | --                        | 21.0                             | --              | --             | --                                     | BrW                     |
| RGW 10            | 424534   | 720111    | Savage                 | 1950           | 1280.0                           | --                        | 41.0                             | --              | --             | --                                     | BrW                     |
| RGW 11            | 424625   | 715910    | Sloane                 | 1947           | 1320.0                           | --                        | 156.0                            | --              | --             | --                                     | BrW                     |
| RGW 12            | 424625   | 715910    | Sloane                 | 1950           | 1320.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 13            | 424602   | 720212    | Smith, Donald          | 1956           | 1030.0                           | --                        | 19.0                             | --              | --             | --                                     | BrW                     |
| RGW 14            | 424559   | 720204    | Stearns, Jeannie       | 1957           | 1050.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 15            | 424546   | 720216    | Whittier, Eugene       | 1953           | 1050.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 17            | 424543   | 720159    | Smith, Fred            | 1954           | 1090.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 18            | 424624   | 720202    | Solmita, L.            | --             | 1030.0                           | --                        | --                               | --              | --             | --                                     | BrW                     |
| RGW 20            | 424507   | 720119    | --                     | 1984           | 1033.0                           | --                        | 24.0                             | --              | X              | --                                     | BrW                     |
| RGW 21            | 424457   | 720223    | --                     | 1984           | 1150.0                           | --                        | 19.0                             | --              | X              | --                                     | BrW                     |
| RGW 26            | 424648   | 720123    | --                     | 1985           | 1043.0                           | --                        | 12.0                             | --              | X              | --                                     | BrW                     |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min)/(ft)] | Pumping period (hours) | Remarks          |
|-------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|------------------------------------|------------------------|------------------|
| Cheshire County   |                          |                 |                      |                              |                 |                                    |                        |                  |
| Nelson            |                          |                 |                      |                              |                 |                                    |                        |                  |
| NBW 24            | 40.0                     | ----59          | H                    | 15.0                         | --              | --                                 | --                     | Bedrock          |
| NBW 25            | 70.0                     | 08----64        | H                    | 3.0                          | --              | --                                 | --                     | Bedrock          |
| NBW 37            | 12.0                     | 07-11-87        | H                    | 5.5                          | --              | --                                 | 1.0                    |                  |
| NBW 43            | --                       | -----           | H                    | 20.0                         | --              | --                                 | 1.5                    |                  |
| NBW 46            | --                       | -----           | H                    | 1.0                          | --              | --                                 | 1.8                    |                  |
| Rindge            |                          |                 |                      |                              |                 |                                    |                        |                  |
| RGW 1             | 18.0                     | ----53          | H                    | 3.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 2             | 30.0                     | ----59          | H                    | 3.5                          | --              | --                                 | --                     | Bedrock          |
| RGW 3             | --                       | -----           | H                    | 6.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 4             | 41.0                     | ----58          | H                    | 30.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 5             | 12.0                     | ----54          | H                    | 20.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 6             | --                       | -----           | H                    | 2.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 7             | --                       | -----           | H                    | 10.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 8             | --                       | -----           | H                    | 2.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 9             | --                       | -----           | H                    | 20.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 10            | 30.0                     | ----50          | H                    | 7.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 11            | 115.0                    | ----47          | H                    | 12.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 12            | 70.0                     | ----50          | H                    | 3.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 13            | 17.0                     | ----56          | H                    | 40.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 14            | 7.0                      | ----57          | H                    | 3.0                          | --              | --                                 | --                     | Bedrock          |
| RGW 15            | --                       | -----           | H                    | --                           | --              | --                                 | --                     | Bedrock          |
| RGW 17            | 12.0                     | ----54          | H                    | 20.0                         | --              | --                                 | --                     | Bedrock          |
| RGW 18            | --                       | -----           | H                    | --                           | --              | --                                 | --                     | Salt replacement |
| RGW 20            | 6.0                      | 02-21-84        | H                    | 6.0                          | --              | --                                 | 0.5                    |                  |
| RGW 21            | 50.0                     | 06-13-84        | H                    | 1.5                          | --              | --                                 | 4.0                    |                  |
| RGW 26            | 15.0                     | 03-06-85        | H                    | 7.0                          | --              | --                                 | 1.5                    |                  |



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user          | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring | Type of well | Remarks |
|-------------------|----------|-----------|------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|---------|
| RGW 33            | 424640   | 720207    | --                     | 1985           | 1024.0                           | --                        | 59.0                             | --              | X              | --   | BrW          |         |
| RGW 40            | 424620   | 720206    | --                     | 1985           | 1020.0                           | --                        | 62.0                             | --              | X              | --   | BrW          |         |
| RGW 43            | 424651   | 720054    | Tafe                   | 1986           | 1063.0                           | --                        | 23.0                             | --              | X              | --   | BrW          |         |
| RGW 44            | 424649   | 720058    | Marsh                  | 1986           | 1063.0                           | --                        | 35.0                             | --              | X              | --   | BrW          |         |
| RGW 60            | 424641   | 720032    | --                     | 1986           | 1240.0                           | --                        | 126.0                            | --              | X              | --   | BrW          |         |
| RGW 61            | 424710   | 720237    | Keay                   | 1986           | 1033.0                           | --                        | 49.0                             | --              | X              | --   | BrW          |         |
| RGW 63            | 424538   | 720158    | --                     | 1986           | 1083.0                           | --                        | 49.0                             | --              | X              | --   | BrW          |         |
| RGW 64            | 424638   | 720218    | Letourneau             | 1986           | 1035.0                           | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| RGW 70            | 424640   | 720027    | Anadon                 | 1986           | 1240.0                           | --                        | 99.0                             | --              | X              | --   | BrW          |         |
| RGW 76            | 424651   | 720049    | --                     | 1987           | 1083.0                           | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| RGW 80            | 424721   | 720250    | --                     | 1987           | 1102.0                           | --                        | 153.0                            | --              | X              | --   | BrW          |         |
| RGW 85            | 424543   | 720200    | Monadhock Fabrications | 1987           | 1250.0                           | 2.0                       | 4.0                              | PVC             | S              | 9.0  | TH           |         |
| RGW 107           | 424711   | 720111    | --                     | 1988           | 1030.0                           | 2.0                       | 22.0                             | P               | P              | 24.0   | TH           |         |
| RGW 108           | 424713   | 715814    | --                     | 1988           | 1100.0                           | 2.0                       | 15.0                             | PVC             | P              | 17.0   | TH           |         |
| Stoddard          |          |           |                        |                |                                  |                           |                                  |                 |                |  |              |         |
| SPB 1             | 430333   | 720434    | NH PUB WKS HHY         | --             | 1260.0                           | --                        | --                               | --              | --             | --   | TH           |         |
| SPB 2             | 430333   | 720434    | NH PUB WKS HHY         | --             | 1270.0                           | --                        | --                               | --              | --             | --   | TH           |         |
| SPB 3             | 430332   | 720435    | NH Public Works        | --             | 1261.5                           | --                        | --                               | --              | --             | --   | TH           |         |
| Stoddard          |          |           |                        |                |                                  |                           |                                  |                 |                |  |              |         |
| SPW 6             | 430445   | 720636    | Bigelow, H.G.          | 1900           | 1390.0                           | --                        | --                               | --              | --             | --   | BrW          |         |
| SPW 11            | 430505   | 720756    | Pinnacle Farm          | 1953           | 1780.0                           | --                        | --                               | --              | --             | --   | BrW          |         |
| SPW 15            | 430534   | 720539    | Zaffino                | 1984           | 1310.0                           | --                        | 117.0                            | --              | X              | --   | BrW          |         |
| SPW 17            | 430421   | 720527    | --                     | 1985           | 1290.0                           | --                        | 44.0                             | --              | X              | --   | BrW          |         |
| SPW 18            | 430637   | 720520    | --                     | --             | 1420.0                           | --                        | --                               | --              | X              | --   | BrW          |         |
| SPW 20            | 430556   | 720544    | Offenberg              | 1984           | 1320.0                           | --                        | 63.0                             | --              | X              | --   | BrW          |         |
| SPW 21            | 430550   | 720547    | Caswell                | 1984           | 1300.0                           | --                        | 79.0                             | --              | X              | --   | BrW          |         |
| SPW 22            | 430209   | 720548    | --                     | 1984           | 1420.0                           | --                        | 99.0                             | --              | X              | --   | BrW          |         |
| SPW 24            | 430444   | 720536    | --                     | 1985           | 1300.0                           | --                        | 22.0                             | --              | X              | --   | BrW          |         |
| SPW 25            | 430445   | 720603    | --                     | 1985           | 1340.0                           | --                        | 105.0                            | --              | X              | --   | BrW          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Depth (feet) | Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                                 |
|-------------------|--------------------|-----------------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---|
| RGW 33            | 20.0               | 06-08-85              | H                    | 25.0                    | --              | --                               | --                     |   |
| RGW 40            | 35.0               | 10-11-85              | H                    | 15.0                    | --              | --                               | 1.0                    |   |
| RGW 43            | 22.0               | 02-06-86              | H                    | 5.0                     | --              | --                               | 1.0                    |   |
| RGW 44            | --                 | -----                 | H                    | 4.0                     | --              | --                               | 1.0                    |   |
| RGW 60            | --                 | -----                 | H                    | 1.5                     | --              | --                               | 3.0                    |   |
| RGW 61            | --                 | -----                 | H                    | 1.5                     | --              | --                               | .8                     |   |
| RGW 63            | --                 | -----                 | H                    | 2.5                     | --              | --                               | .8                     |   |
| RGW 64            | --                 | -----                 | H                    | 26.0                    | --              | --                               | .5                     |   |
| RGW 70            | --                 | -----                 | H                    | 12.0                    | --              | --                               | .5                     |   |
| RGW 76            | --                 | -----                 | H                    | 20.0                    | --              | --                               | .5                     |   |
| RGW 80            | --                 | -----                 | H                    | 12.0                    | --              | --                               | 2.0                    |   |
| RGW 85            | 6.0                | 02-05-87              | T                    | --                      | --              | --                               | --                     | USGS;2                                  |
| RGW 107           | 14.9               | 06-22-89              | T                    | .1                      | .3              | .5                               | 2                      | USGS;2                                  |
| RGW 108           | 6.3                | 07-08-89              | T                    | --                      | --              | --                               | --                     | USGS;2                                  |
| Cheshire County   |                    |                       |                      |                         |                 |                                  |                        |   |
| Stoddard          |                    |                       |                      |                         |                 |                                  |                        |   |
| SPB 1             | --                 | -----                 | T                    | --                      | --              | --                               | --                     | Bridge 154/082 boring 5                 |
| SPB 2             | --                 | -----                 | T                    | --                      | --              | --                               | --                     | Bridge 154/082 boring 6                 |
| SPB 3             | --                 | -----                 | O                    | --                      | --              | --                               | --                     | RT 9 over Island Pond Brook No. 5 of 14 |
| Stoddard          |                    |                       |                      |                         |                 |                                  |                        |   |
| SPW 6             | 5.0                | -----00               | H                    | 2.0                     | --              | --                               | --                     | Bedrock                                 |
| SPW 11            | --                 | -----                 | H                    | 20.0                    | --              | --                               | --                     | Bedrock                                 |
| SPW 15            | --                 | -----                 | H                    | 20.0                    | --              | --                               | 1.0                    |   |
| SPW 17            | 5.0                | 11-07-85              | H                    | 18.0                    | --              | --                               | 1.0                    |   |
| SPW 18            | 45.0               | 08-26-84              | H                    | --                      | --              | --                               | --                     |   |
| SPW 20            | --                 | -----                 | H                    | 20.0                    | --              | --                               | .8                     |   |
| SPW 21            | --                 | -----                 | H                    | 40.0                    | --              | --                               | 1.0                    |   |
| SPW 22            | 30.0               | 06-20-84              | H                    | 4.5                     | --              | --                               | 1.0                    |   |
| SPW 24            | 8.0                | 01-31-85              | H                    | 20.0                    | --              | --                               | 1.0                    |   |
| SPW 25            | 30.0               | 02-07-85              | H                    | 6.5                     | --              | --                               | 1.0                    |   |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Type of material | Type of finish section or (feet) spring | Depth to bottom of open well (feet) | Type of well |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|------------------|---|-------------------------------------|--------------|
| SPW 26            | 430539   | 720527    | --            | 1985           | 1360.0                           | --                        | 74.0                             | --               | X                                       | --                                  | BrW          |
| SPW 27            | 430510   | 720608    | --            | 1985           | 1310.0                           | --                        | 119.0                            | --               | X                                       | --                                  | BrW          |
| SPW 28            | 430531   | 720540    | --            | 1985           | 1310.0                           | --                        | 79.0                             | --               | X                                       | --                                  | BrW          |
| SPW 29            | 430501   | 720613    | --            | 1985           | 1300.0                           | --                        | 69.0                             | --               | X                                       | --                                  | BrW          |
| SPW 30            | 430556   | 720637    | --            | 1985           | 1540.0                           | --                        | 41.0                             | --               | X                                       | --                                  | BrW          |
| SPW 31            | 430610   | 720448    | --            | 1985           | 1340.0                           | --                        | 61.0                             | --               | X                                       | --                                  | BrW          |
| SPW 32            | 430439   | 720531    | --            | 1985           | 1300.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 33            | 430524   | 720643    | --            | 1985           | 1520.0                           | --                        | --                               | --               | X                                       | --                                  | BrW          |
| SPW 36            | 430449   | 720554    | --            | 1986           | 1300.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 37            | 430627   | 720603    | --            | 1985           | 1460.0                           | --                        | 19.0                             | --               | X                                       | --                                  | BrW          |
| SPW 38            | 430439   | 720551    | --            | 1986           | 1300.0                           | --                        | 26.0                             | --               | X                                       | --                                  | BrW          |
| SPW 39            | 430628   | 720611    | --            | 1986           | 1500.0                           | --                        | 59.0                             | --               | X                                       | --                                  | BrW          |
| SPW 40            | 430613   | 720534    | --            | 1986           | 1300.0                           | --                        | 59.0                             | --               | X                                       | --                                  | BrW          |
| SPW 41            | 430347   | 720516    | --            | 1985           | 1300.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 42            | 430347   | 720520    | --            | 1985           | 1300.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 43            | 430352   | 720528    | --            | 1985           | 1300.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 45            | 430548   | 720551    | --            | 1985           | 1320.0                           | --                        | 62.0                             | --               | X                                       | --                                  | BrW          |
| SPW 46            | 430442   | 720544    | --            | 1985           | 1320.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 47            | 430541   | 720557    | --            | 1985           | 1300.0                           | --                        | 127.0                            | --               | X                                       | --                                  | BrW          |
| SPW 48            | 430441   | 720537    | --            | 1985           | 1300.0                           | --                        | 59.0                             | --               | X                                       | --                                  | BrW          |
| SPW 49            | 430608   | 720553    | --            | 1986           | 1400.0                           | --                        | 20.0                             | --               | X                                       | --                                  | BrW          |
| SPW 50            | 430624   | 720501    | --            | 1986           | 1310.0                           | --                        | 41.0                             | --               | X                                       | --                                  | BrW          |
| SPW 51            | 430348   | 720454    | --            | 1986           | 1300.0                           | --                        | 17.0                             | --               | X                                       | --                                  | BrW          |
| SPW 53            | 430601   | 720510    | --            | 1986           | 1360.0                           | --                        | 87.0                             | --               | X                                       | --                                  | BrW          |
| SPW 54            | 430443   | 720704    | --            | 1986           | 1520.0                           | --                        | 117.0                            | --               | X                                       | --                                  | BrW          |
| SPW 55            | 430532   | 720606    | --            | 1986           | 1320.0                           | --                        | 29.0                             | --               | X                                       | --                                  | BrW          |
| SPW 56            | 430404   | 720445    | --            | 1986           | 1290.0                           | --                        | 39.0                             | --               | X                                       | --                                  | BrW          |
| SPW 57            | 430400   | 720443    | --            | 1986           | 1290.0                           | --                        | 46.0                             | --               | X                                       | --                                  | BrW          |
| SPW 58            | 430557   | 720443    | --            | 1986           | 1290.0                           | --                        | 16.0                             | --               | X                                       | --                                  | BrW          |
| SPW 59            | 430555   | 720634    | --            | 1987           | 1530.0                           | --                        | 61.0                             | --               | X                                       | --                                  | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min)/(ft) | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------|
| SPW 26            | 8.0                         | H                    | 10.0                    | --              | --                               | 1.0                    |         |
| SPW 27            | 30.0                        | H                    | 5.5                     | --              | --                               | 1.0                    |         |
| SPW 28            | 32.0                        | H                    | 8.0                     | --              | --                               | 1.0                    |         |
| SPW 29            | 30.0                        | H                    | .5                      | --              | --                               | 4.0                    |         |
| SPW 30            | --                          | H                    | 2.5                     | --              | --                               | 2.0                    |         |
| SPW 31            | 10.0                        | H                    | 50.0                    | --              | --                               | 2.0                    |         |
| SPW 32            | --                          | H                    | 2.0                     | --              | --                               | 2.0                    |         |
| SPW 33            | --                          | H                    | 2.5                     | --              | --                               | --                     |         |
| SPW 36            | --                          | H                    | 8.0                     | --              | --                               | .3                     |         |
| SPW 37            | 20.0                        | H                    | 20.0                    | --              | --                               | 1.0                    |         |
| SPW 38            | 10.0                        | H                    | 15.0                    | --              | --                               | 1.0                    |         |
| SPW 39            | 20.0                        | H                    | 20.0                    | --              | --                               | 1.0                    |         |
| SPW 40            | --                          | H                    | 6.0                     | --              | --                               | 1.0                    |         |
| SPW 41            | --                          | H                    | 2.0                     | --              | --                               | 2.5                    |         |
| SPW 42            | --                          | H                    | 50.0                    | --              | --                               | 1.5                    |         |
| SPW 43            | --                          | H                    | 30.0                    | --              | --                               | 1.5                    |         |
| SPW 45            | --                          | H                    | 3.0                     | --              | --                               | 2.0                    |         |
| SPW 46            | --                          | H                    | 100.0                   | --              | --                               | 1.5                    |         |
| SPW 47            | 20.0                        | H                    | 20.0                    | --              | --                               | 2.0                    |         |
| SPW 48            | --                          | H                    | 10.0                    | --              | --                               | 1.5                    |         |
| SPW 49            | --                          | H                    | 15.0                    | --              | --                               | 2.0                    |         |
| SPW 50            | --                          | H                    | 50.0                    | --              | --                               | 1.3                    |         |
| SPW 51            | --                          | H                    | 20.0                    | --              | --                               | 1.0                    |         |
| SPW 53            | --                          | H                    | 10.0                    | --              | --                               | 1.5                    |         |
| SPW 54            | --                          | H                    | 2.0                     | --              | --                               | 3.0                    |         |
| SPW 55            | --                          | H                    | 8.0                     | --              | --                               | 2.0                    |         |
| SPW 56            | 4.0                         | H                    | 2.3                     | --              | --                               | 1.0                    |         |
| SPW 57            | --                          | H                    | .5                      | --              | --                               | .3                     |         |
| SPW 58            | 5.0                         | H                    | 3.0                     | --              | --                               | --                     |         |
| SPW 59            | --                          | H                    | 3.0                     | --              | --                               | 1.0                    |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| SPU 60            | 430465   | 720644    | Town of Stoddard      | 1987           | 1400.0                           | --                        | 59.0                             | --              | X              | --                                     | BrW          |
| SPU 62            | 430629   | 720624    | --                    | 1987           | 1520.0                           | --                        | 29.0                             | --              | X              | --                                     | BrW          |
| SPU 66            | 430603   | 720623    | Pioneer Builders      | 1987           | 1520.0                           | --                        | 83.0                             | --              | X              | --                                     | BrW          |
| SPU 69            | 430553   | 720518    | --                    | 1987           | 1320.0                           | --                        | 59.0                             | --              | X              | --                                     | BrW          |
| SPU 70            | 430213   | 720622    | --                    | 1987           | 1440.0                           | --                        | 35.0                             | --              | X              | --                                     | BrW          |
| SPU 72            | 430603   | 720509    | --                    | 1987           | 1340.0                           | --                        | 119.0                            | --              | X              | --                                     | BrW          |
| SPU 73            | 430438   | 720538    | --                    | 1987           | 1300.0                           | --                        | 39.0                             | --              | X              | --                                     | BrW          |
| SPU 76            | 430447   | 720554    | --                    | 1987           | 1300.0                           | --                        | 79.0                             | --              | X              | --                                     | BrW          |
| SPU 77            | 430449   | 720620    | Bergeron Construction | 1987           | 1360.0                           | --                        | 39.0                             | --              | X              | --                                     | BrW          |
| SPU 78            | 430606   | 720503    | --                    | 1987           | 1330.0                           | --                        | 59.8                             | --              | X              | --                                     | BrW          |
| SPU 80            | 430215   | 720459    | --                    | 1988           | 1370.0                           | --                        | 139.0                            | --              | X              | --                                     | BrW          |
| SPU 81            | 430343   | 720457    | --                    | 1988           | 1290.0                           | --                        | 20.0                             | --              | X              | --                                     | BrW          |
| SPU 82            | 430614   | 720531    | --                    | 1988           | 1310.0                           | --                        | 34.0                             | --              | X              | --                                     | BrW          |

Cheshire County

Stoddard--Continued

Hillsborough County

Antrim

|        |        |        |                 |      |        |    |       |    |    |    |     |
|--------|--------|--------|-----------------|------|--------|----|-------|----|----|----|-----|
| AOB 1  | 430450 | 715804 | NH PUB WKS HMY  | --   | 850.0  | -- | --    | -- | -- | -- | TH  |
| AOB 2  | 430422 | 715834 | NH PUB WKS HMY  | --   | 910.0  | -- | --    | -- | -- | -- | TH  |
| AOB 3  | 430453 | 715815 | NH PUB WKS HMY  | --   | 850.0  | -- | --    | -- | -- | -- | TH  |
| AOB 4  | 430219 | 715722 | NH PUB WKS HMY  | --   | 760.0  | -- | --    | -- | -- | -- | TH  |
| AOW 2  | 430239 | 715908 | Cuddihy, Alice  | 1960 | 1080.0 | -- | 9.0   | -- | -- | -- | BrW |
| AOW 3  | 430305 | 715736 | Dudley, Roy     | 1964 | 1030.0 | -- | 25.0  | -- | -- | -- | BrW |
| AOW 4  | 430156 | 715705 | Edwards, George | 1962 | 770.0  | -- | 170.0 | -- | -- | -- | BrW |
| AOW 5  | 430306 | 715535 | Hertzog, Joseph | 1963 | 640.0  | -- | 25.0  | -- | -- | -- | BrW |
| AOW 11 | 430305 | 715716 | Buxton, Frank   | 1963 | 910.0  | -- | 105.0 | -- | -- | -- | BrW |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min)/ft] | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------|
| SPU 60            | 20.0                     | 06-11-87        | P                    | 50.0                    | --              | --                               | 1.0                    |         |
| SPU 62            | --                       | -----           | H                    | 3.0                     | --              | --                               | 2.0                    |         |
| SPU 66            | --                       | -----           | H                    | 1.5                     | --              | --                               | 2.0                    |         |
| SPU 69            | --                       | -----           | H                    | 10.0                    | --              | --                               | 1.0                    |         |
| SPU 70            | --                       | -----           | H                    | 3.5                     | --              | --                               | 1.0                    |         |
| SPU 72            | 20.0                     | 07-08-87        | H                    | 12.0                    | --              | --                               | 1.0                    |         |
| SPU 73            | 20.0                     | 06-25-87        | H                    | 7.5                     | --              | --                               | 1.0                    |         |
| SPU 76            | --                       | -----           | H                    | 12.0                    | --              | --                               | 1.0                    |         |
| SPU 77            | --                       | -----           | H                    | 3.0                     | --              | --                               | 1.0                    |         |
| SPU 78            | --                       | -----           | H                    | 75.0                    | --              | --                               | .5                     |         |
| SPU 80            | 45.0                     | 03-19-88        | H                    | .8                      | --              | --                               | 1.0                    |         |
| SPU 81            | --                       | -----           | H                    | 5.0                     | --              | --                               | 2.0                    |         |
| SPU 82            | 8.0                      | 05-09-88        | H                    | 12.0                    | --              | --                               | 1.0                    |         |

Cheshire County

Stoddard--Continued

Hillsborough County

Antrim

|        |      |            |   |      |    |    |    |                          |
|--------|------|------------|---|------|----|----|----|--------------------------|
| AOB 1  | --   | -----      | T | --   | -- | -- | -- | Bridge 141/146 boring 3  |
| AOB 2  | --   | -----      | T | --   | -- | -- | -- | Bridge 133/132 boring 2  |
| AOB 3  | -5.0 | 10------50 | T | --   | -- | -- | -- | Bridge 137/146 boring 3X |
| AOB 4  | --   | -----      | T | --   | -- | -- | -- | Bridge 157/087 boring 5  |
| AOW 2  | --   | -----      | H | 2.0  | -- | -- | -- | Bedrock                  |
| AOW 3  | 15.0 | 07------64 | H | 20.0 | -- | -- | -- | Bedrock                  |
| AOW 4  | 38.0 | 12------62 | H | 5.0  | -- | -- | -- | Bedrock                  |
| AOW 5  | 20.0 | 10------63 | H | 5.0  | -- | -- | -- | Bedrock                  |
| AOW 11 | 9.0  | 10------63 | H | 12.0 | -- | -- | -- | Bedrock                  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well (feet) | Type of well |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|-------------------------------------|--------------|
| AOM 12            | 430452   | 715807    | Baer, A.      | --             | 870.0                            | --                        | --                               | --              | --             | --                                  | BRW          |
| AOM 13            | 430421   | 715500    | Movak, P.     | --             | 620.0                            | --                        | --                               | --              | --             | --                                  | BRW          |
| AOM 14            | 430535   | 715717    | McCarthy      | 1984           | 780.0                            | --                        | 39.0                             | --              | X              | --                                  | BRW          |
| AOM 15            | 430524   | 715732    | Whittenou     | 1984           | 800.0                            | --                        | 39.0                             | --              | X              | --                                  | BRW          |
| AOM 16            | 430444   | 715833    | DeYoung       | 1984           | 980.0                            | --                        | 41.0                             | --              | X              | --                                  | BRW          |
| AOM 17            | 430318   | 715954    | Bachilas      | 1985           | 1120.0                           | --                        | 19.0                             | --              | X              | --                                  | BRW          |
| AOM 18            | 430329   | 715949    | Craige        | 1985           | 1100.0                           | --                        | 67.0                             | --              | X              | --                                  | BRW          |
| AOM 19            | 430442   | 715737    | Sherburne     | 1985           | 820.0                            | --                        | 105.0                            | --              | X              | --                                  | BRW          |
| AOM 20            | 430450   | 715726    | Walther       | 1985           | 830.0                            | --                        | 159.0                            | --              | --             | --                                  | BRW          |
| AOM 21            | 430449   | 715725    | Pasquale      | 1985           | 830.0                            | --                        | 170.0                            | --              | --             | --                                  | BRW          |
| AOM 22            | 430154   | 715948    | Kace          | 1986           | 1200.0                           | --                        | 45.0                             | --              | X              | --                                  | BRW          |
| AOM 23            | 430119   | 715627    | Dunlap        | 1986           | 780.0                            | --                        | 60.0                             | --              | X              | --                                  | BRW          |
| AOM 24            | 430447   | 715746    | Lapointe      | 1986           | 820.0                            | --                        | 19.0                             | --              | X              | --                                  | BRW          |
| AOM 25            | 430127   | 715709    | Parker        | 1986           | 860.0                            | --                        | 19.0                             | --              | X              | --                                  | BRW          |
| AOM 26            | 430128   | 715717    | Watterson     | 1986           | 870.0                            | --                        | 39.0                             | --              | X              | --                                  | BRW          |
| AOM 27            | 430501   | 715512    | Hall          | 1986           | 610.0                            | --                        | 19.0                             | --              | X              | --                                  | BRW          |
| AOM 28            | 430458   | 715922    | Lowe          | 1987           | 1080.0                           | --                        | 20.0                             | --              | X              | --                                  | BRW          |
| AOM 29            | 430440   | 715808    | Lasala        | 1987           | 900.0                            | --                        | 247.0                            | --              | X              | --                                  | BRW          |
| AOM 30            | 430313   | 715811    | Belanger      | 1987           | 1120.0                           | --                        | 99.0                             | --              | X              | --                                  | BRW          |
| AOM 31            | 430537   | 715518    | Deter         | 1987           | 640.0                            | --                        | 59.0                             | --              | X              | --                                  | BRW          |
| AOM 32            | 430119   | 715748    | McGurty       | 1987           | 900.0                            | --                        | 76.0                             | --              | X              | --                                  | BRW          |
| AOM 33            | 430232   | 715754    | Grant         | 1987           | 910.0                            | --                        | 42.0                             | --              | X              | --                                  | BRW          |
| AOM 34            | 430346   | 720215    | Zappale       | 1987           | 1180.0                           | --                        | 41.0                             | --              | X              | --                                  | BRW          |
| AOM 35            | 430539   | 715520    | Daniels       | 1987           | 680.0                            | --                        | 59.0                             | --              | X              | --                                  | BRW          |
| AOM 36            | 430454   | 715727    | Kennedy       | 1987           | 780.0                            | --                        | 139.0                            | --              | X              | --                                  | BRW          |
| AOM 37            | 430556   | 715618    | Peasley       | 1987           | 880.0                            | --                        | 64.0                             | --              | X              | --                                  | BRW          |
| AOM 38            | 430557   | 715610    | Lape          | 1987           | 860.0                            | --                        | 11.0                             | --              | X              | --                                  | BRW          |
| AOM 39            | 430337   | 715921    | Boutle        | 1987           | 1080.0                           | --                        | 49.0                             | --              | X              | --                                  | BRW          |
| AOM 40            | 430456   | 715839    | Forgit        | 1988           | 910.0                            | --                        | 63.0                             | --              | X              | --                                  | BRW          |
| AOM 41            | 430417   | 715712    | Hines         | 1988           | 840.0                            | --                        | 101.0                            | --              | X              | --                                  | BRW          |

Hillsborough County

Antrim--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min) /ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|-----------------------------------|------------------------|---------|
| AOM 12            | --                       | ----            | H                    | 100.0                   | --              | --                                | --                     | --      |
| AOM 13            | --                       | ----            | H                    | 10.0                    | --              | --                                | --                     | --      |
| AOM 14            | --                       | ----            | H                    | 4.0                     | --              | --                                | .5                     | --      |
| AOM 15            | --                       | ----            | H                    | 10.0                    | --              | --                                | .5                     | --      |
| AOM 16            | 130.0                    | 10-30-84        | H                    | 2.0                     | --              | --                                | .5                     | --      |
| AOM 17            | 25.0                     | 05-13-85        | H                    | 3.0                     | --              | --                                | 0.5                    | --      |
| AOM 18            | 12.0                     | 06-07-85        | H                    | 5.0                     | --              | --                                | 1.0                    | --      |
| AOM 19            | --                       | ----            | H                    | 2.0                     | --              | --                                | .5                     | --      |
| AOM 20            | 32.0                     | 11-22-85        | H                    | 60.0                    | --              | --                                | 3.0                    | --      |
| AOM 21            | --                       | ----            | H                    | 60.0                    | --              | --                                | 2.0                    | --      |
| AOM 22            | 5.0                      | 11-13-86        | H                    | 20.0                    | --              | --                                | 1.0                    | --      |
| AOM 23            | 15.0                     | 07-16-86        | H                    | 25.0                    | --              | --                                | .5                     | --      |
| AOM 24            | 25.0                     | 09-18-86        | H                    | 5.0                     | --              | --                                | 3.0                    | --      |
| AOM 25            | 40.0                     | 11-20-86        | H                    | 10.0                    | --              | --                                | 1.0                    | --      |
| AOM 26            | 30.0                     | 11-18-86        | H                    | 15.0                    | --              | --                                | 1.0                    | --      |
| AOM 27            | 6.0                      | 10-27-86        | H                    | 30.0                    | --              | --                                | .8                     | --      |
| AOM 28            | --                       | ----            | H                    | 1.0                     | --              | --                                | .5                     | --      |
| AOM 29            | --                       | ----            | H                    | 30.0                    | --              | --                                | 1.0                    | --      |
| AOM 30            | --                       | ----            | H                    | 2.0                     | --              | --                                | 2.0                    | --      |
| AOM 31            | 4.0                      | 05-08-87        | H                    | 6.0                     | --              | --                                | .8                     | --      |
| AOM 32            | --                       | ----            | H                    | 4.0                     | --              | --                                | 1.0                    | --      |
| AOM 33            | --                       | ----            | H                    | 10.0                    | --              | --                                | 1.0                    | --      |
| AOM 34            | --                       | ----            | H                    | 8.0                     | --              | --                                | 1.0                    | --      |
| AOM 35            | --                       | ----            | H                    | 5.0                     | --              | --                                | .8                     | --      |
| AOM 36            | --                       | ----            | H                    | 25.0                    | --              | --                                | 2.0                    | --      |
| AOM 37            | --                       | ----            | H                    | 5.0                     | --              | --                                | --                     | --      |
| AOM 38            | 30.0                     | 12-02-87        | H                    | 10.0                    | --              | --                                | --                     | --      |
| AOM 39            | --                       | ----            | H                    | 15.0                    | --              | --                                | 1.0                    | --      |
| AOM 40            | 40                       | ----            | H                    | 12.0                    | --              | --                                | 2.0                    | --      |
| AOM 41            | --                       | ----            | H                    | 2.0                     | --              | --                                | --                     | --      |

Hillsborough County

Antrim--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or spring (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|---------|
| AOM 42            | 430440   | 720003    | Shaw                    | 1988           | 1005.0                           | --                        | 31.0                             | --              | X              | --   | BrW          |         |
| AOM 43            | 430421   | 715637    | Mehnen                  | 1988           | 840.0                            | --                        | 87.0                             | --              | X              | --   | BrW          |         |
| AOM 44            | 430451   | 715724    | Walther                 | 1988           | 840.0                            | --                        | 199.0                            | --              | X              | --   | BrW          |         |
| AOM 45            | 430406   | 715455    | Cutter                  | 1988           | 620.0                            | --                        | 135.0                            | --              | X              | --   | BrW          |         |
| AOM 46            | 430534   | 715517    | Browning                | 1988           | 640.0                            | --                        | 50.0                             | --              | X              | --   | BrW          |         |
| AOM 47            | 430339   | 720219    | Land Contractors        | 1984           | 1200.0                           | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| AOM 48            | 430150   | 715946    | Stuart                  | 1988           | 1180.0                           | --                        | 83.0                             | --              | X              | --   | BrW          |         |
| AOM 49            | 430159   | 715951    | Hillsborough Ent        | 1988           | 1220.0                           | --                        | 86.0                             | --              | X              | --   | BrW          |         |
| AOM 50            | 430432   | 720052    | Walter Reed Builders    | 1988           | 1020.0                           | --                        | 41.0                             | --              | X              | --   | BrW          |         |
| AOM 51            | 430351   | 715543    | Kaufman                 | 1988           | 720.0                            | --                        | 219.0                            | --              | X              | --   | BrW          |         |
| AOM 52            | 430102   | 715756    | Jones                   | 1988           | 920.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| AOM 53            | 430351   | 715938    | Woodland                | 1988           | 1100.0                           | --                        | 139.0                            | --              | X              | --   | BrW          |         |
| AOM 54            | 430146   | 715940    | Miller, J.              | 1988           | 1160.0                           | --                        | 119.0                            | --              | X              | --   | BrW          |         |
| AOM 55            | 430316   | 715530    | Artek                   | 1988           | 680.0                            | --                        | 161.0                            | --              | X              | --   | BrW          |         |
| AOM 56            | 430449   | 715723    | Silva                   | 1989           | 840.0                            | --                        | 183.0                            | --              | X              | --   | BrW          |         |
| AOM 58            | 430412   | 715829    | Nichols                 | 1988           | 960.0                            | --                        | 37.0                             | --              | X              | --   | BrW          |         |
| AOM 59            | 430215   | 715708    | Ricupero                | 1988           | 730.0                            | --                        | 100.0                            | --              | X              | --   | BrW          |         |
| AOM 60            | 430425   | 715837    | Leib                    | 1989           | 935.0                            | --                        | 90.0                             | --              | X              | --   | BrW          |         |
| AOM 61            | 430501   | 715519    | Canadian Home Importers | 1989           | 680.0                            | --                        | 20.0                             | --              | X              | --   | BrW          |         |
| AOM 62            | 430435   | 715712    | Lemire                  | 1989           | 910.0                            | --                        | 120.0                            | --              | X              | --   | BrW          |         |
| AOM 63            | 430102   | 720119    | NH Audubon Society      | 1990           | 1045.0                           | --                        | 38.0                             | --              | X              | --   | BrW          |         |
| AOM 64            | 430218   | 715734    | Deroucher               | 1990           | 800.0                            | --                        | 95.0                             | --              | X              | --   | BrW          |         |
| AOM 65            | 430525   | 715757    | Okeefe                  | 1990           | 0.0                              | --                        | 102.0                            | --              | X              | --   | BrW          |         |
| AOM 66            | 430152   | 715749    | Cutter                  | 1986           | 930.0                            | --                        | 119.0                            | --              | X              | --   | BrW          |         |

Hillsborough County

Antrim--Continued

|       |        |        |                |    |       |    |    |    |    |    |    |  |
|-------|--------|--------|----------------|----|-------|----|----|----|----|----|----|--|
| BNB 1 | 430005 | 715535 | NH PUB WKS HWY | -- | 630.0 | -- | -- | -- | -- | -- | TH |  |
| BNB 2 | 430002 | 715505 | NH PUB WKS HWY | -- | 690.0 | -- | -- | -- | -- | -- | TH |  |
| BNB 3 | 425933 | 715525 | --             | -- | 673.0 | -- | -- | -- | -- | -- | TH |  |
| BNB 4 | 425932 | 715523 | --             | -- | 675.0 | -- | -- | -- | -- | -- | TH |  |
| BNB 5 | 425928 | 715529 | --             | -- | 681.4 | -- | -- | -- | -- | -- | TH |  |

Bennington

Bridge 096/097 boring 7  
Bridge 106/085 boring 1

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or spring (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|---------|
| AOM 42            | 430440   | 720003    | Shaw                    | 1988           | 1005.0                           | --                        | 31.0                             | --              | X              | --   | BrW          |         |
| AOM 43            | 430421   | 715637    | Mehnen                  | 1988           | 840.0                            | --                        | 87.0                             | --              | X              | --   | BrW          |         |
| AOM 44            | 430451   | 715724    | Walther                 | 1988           | 840.0                            | --                        | 199.0                            | --              | X              | --   | BrW          |         |
| AOM 45            | 430406   | 715455    | Cutter                  | 1988           | 620.0                            | --                        | 135.0                            | --              | X              | --   | BrW          |         |
| AOM 46            | 430534   | 715517    | Browning                | 1988           | 640.0                            | --                        | 50.0                             | --              | X              | --   | BrW          |         |
| AOM 47            | 430339   | 720219    | Land Contractors        | 1984           | 1200.0                           | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| AOM 48            | 430150   | 715946    | Stuart                  | 1988           | 1180.0                           | --                        | 83.0                             | --              | X              | --   | BrW          |         |
| AOM 49            | 430159   | 715951    | Hillsborough Ent        | 1988           | 1220.0                           | --                        | 86.0                             | --              | X              | --   | BrW          |         |
| AOM 50            | 430432   | 720052    | Walter Reed Builders    | 1988           | 1020.0                           | --                        | 41.0                             | --              | X              | --   | BrW          |         |
| AOM 51            | 430351   | 715543    | Kaufman                 | 1988           | 720.0                            | --                        | 219.0                            | --              | X              | --   | BrW          |         |
| AOM 52            | 430102   | 715756    | Jones                   | 1988           | 920.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| AOM 53            | 430351   | 715938    | Woodland                | 1988           | 1100.0                           | --                        | 139.0                            | --              | X              | --   | BrW          |         |
| AOM 54            | 430146   | 715940    | Miller, J.              | 1988           | 1160.0                           | --                        | 119.0                            | --              | X              | --   | BrW          |         |
| AOM 55            | 430316   | 715530    | Artek                   | 1988           | 680.0                            | --                        | 161.0                            | --              | X              | --   | BrW          |         |
| AOM 56            | 430449   | 715723    | Silva                   | 1989           | 840.0                            | --                        | 183.0                            | --              | X              | --   | BrW          |         |
| AOM 58            | 430412   | 715829    | Nichols                 | 1988           | 960.0                            | --                        | 37.0                             | --              | X              | --   | BrW          |         |
| AOM 59            | 430215   | 715708    | Ricupero                | 1988           | 730.0                            | --                        | 100.0                            | --              | X              | --   | BrW          |         |
| AOM 60            | 430425   | 715837    | Leib                    | 1989           | 935.0                            | --                        | 90.0                             | --              | X              | --   | BrW          |         |
| AOM 61            | 430501   | 715519    | Canadian Home Importers | 1989           | 680.0                            | --                        | 20.0                             | --              | X              | --   | BrW          |         |
| AOM 62            | 430435   | 715712    | Lemire                  | 1989           | 910.0                            | --                        | 120.0                            | --              | X              | --   | BrW          |         |
| AOM 63            | 430102   | 720119    | NH Audubon Society      | 1990           | 1045.0                           | --                        | 38.0                             | --              | X              | --   | BrW          |         |
| AOM 64            | 430218   | 715734    | Deroucher               | 1990           | 800.0                            | --                        | 95.0                             | --              | X              | --   | BrW          |         |
| AOM 65            | 430525   | 715757    | Okeefe                  | 1990           | 0.0                              | --                        | 102.0                            | --              | X              | --   | BrW          |         |
| AOM 66            | 430152   | 715749    | Cutter                  | 1986           | 930.0                            | --                        | 119.0                            | --              | X              | --   | BrW          |         |

Hillsborough County

Antrim--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or spring (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|---------|
| AOM 42            | 430440   | 720003    | Shaw                    | 1988           | 1005.0                           | --                        | 31.0                             | --              | X              | --   | BrW          |         |
| AOM 43            | 430421   | 715637    | Mehnen                  | 1988           | 840.0                            | --                        | 87.0                             | --              | X              | --   | BrW          |         |
| AOM 44            | 430451   | 715724    | Walther                 | 1988           | 840.0                            | --                        | 199.0                            | --              | X              | --   | BrW          |         |
| AOM 45            | 430406   | 715455    | Cutter                  | 1988           | 620.0                            | --                        | 135.0                            | --              | X              | --   | BrW          |         |
| AOM 46            | 430534   | 715517    | Browning                | 1988           | 640.0                            | --                        | 50.0                             | --              | X              | --   | BrW          |         |
| AOM 47            | 430339   | 720219    | Land Contractors        | 1984           | 1200.0                           | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| AOM 48            | 430150   | 715946    | Stuart                  | 1988           | 1180.0                           | --                        | 83.0                             | --              | X              | --   | BrW          |         |
| AOM 49            | 430159   | 715951    | Hillsborough Ent        | 1988           | 1220.0                           | --                        | 86.0                             | --              | X              | --   | BrW          |         |
| AOM 50            | 430432   | 720052    | Walter Reed Builders    | 1988           | 1020.0                           | --                        | 41.0                             | --              | X              | --   | BrW          |         |
| AOM 51            | 430351   | 715543    | Kaufman                 | 1988           | 720.0                            | --                        | 219.0                            | --              | X              | --   | BrW          |         |
| AOM 52            | 430102   | 715756    | Jones                   | 1988           | 920.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| AOM 53            | 430351   | 715938    | Woodland                | 1988           | 1100.0                           | --                        | 139.0                            | --              | X              | --   | BrW          |         |
| AOM 54            | 430146   | 715940    | Miller, J.              | 1988           | 1160.0                           | --                        | 119.0                            | --              | X              | --   | BrW          |         |
| AOM 55            | 430316   | 715530    | Artek                   | 1988           | 680.0                            | --                        | 161.0                            | --              | X              | --   | BrW          |         |
| AOM 56            | 430449   | 715723    | Silva                   | 1989           | 840.0                            | --                        | 183.0                            | --              | X              | --   | BrW          |         |
| AOM 58            | 430412   | 715829    | Nichols                 | 1988           | 960.0                            | --                        | 37.0                             | --              | X              | --   | BrW          |         |
| AOM 59            | 430215   | 715708    | Ricupero                | 1988           | 730.0                            | --                        | 100.0                            | --              | X              | --   | BrW          |         |
| AOM 60            | 430425   | 715837    | Leib                    | 1989           | 935.0                            | --                        | 90.0                             | --              | X              | --   | BrW          |         |
| AOM 61            | 430501   | 715519    | Canadian Home Importers | 1989           | 680.0                            | --                        | 20.0                             | --              | X              | --   | BrW          |         |
| AOM 62            | 430435   | 715712    | Lemire                  | 1989           | 910.0                            | --                        | 120.0                            | --              | X              | --   | BrW          |         |
| AOM 63            | 430102   | 720119    | NH Audubon Society      | 1990           | 1045.0                           | --                        | 38.0                             | --              | X              | --   | BrW          |         |
| AOM 64            | 430218   | 715734    | Deroucher               | 1990           | 800.0                            | --                        | 95.0                             | --              | X              | --   | BrW          |         |
| AOM 65            | 430525   | 715757    | Okeefe                  | 1990           | 0.0                              | --                        | 102.0                            | --              | X              | --   | BrW          |         |
| AOM 66            | 430152   | 715749    | Cutter                  | 1986           | 930.0                            | --                        | 119.0                            | --              | X              | --   | BrW          |         |

Bennington

Bridge 096/097 boring 7  
Bridge 106/085 boring 1

Appendix A.--Description of wells and borings--Continued

| Local site number     | Latitude | Longitude | Owner or user      | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of open section (feet) | Type of well | Remarks |
|-----------------------|----------|-----------|--------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|--|--------------|---------|
| Hillsborough County   |          |           |                    |                |                                  |                           |                                  |                 |                        |  |              |         |
| Bennington--Continued |          |           |                    |                |                                  |                           |                                  |                 |                        |  |              |         |
| BNB 6                 | 425929   | 715520    | --                 | --             | 675.9                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 7                 | 425932   | 715514    | --                 | --             | 670.0                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 8                 | 425927   | 715513    | --                 | --             | 682.6                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 9                 | 425947   | 715505    | --                 | --             | 684.3                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 10                | 425941   | 715513    | --                 | --             | 668.7                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 11                | 425946   | 715514    | --                 | --             | 678.7                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 12                | 425956   | 715523    | --                 | --             | 668.7                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 13                | 425945   | 715534    | --                 | --             | 703.1                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 14                | 425938   | 715525    | --                 | --             | 671.9                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 15                | 425938   | 715535    | --                 | --             | 694.0                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 16                | 425933   | 715544    | --                 | --             | 679.8                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 17                | 425938   | 715549    | --                 | --             | 730.0                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNB 18                | 430203   | 715525    | --                 | 1989           | 620.0                            | --                        | --                               | --              | --                     | --                                     | TH           |         |
| BNW 1                 | 430020   | 715436    | Bonelli, R.        | 1952           | 760.0                            | --                        | --                               | --              | --                     | --                                     | BrW          |         |
| BNW 3                 | 430006   | 715610    | Pierce, A.         | --             | 830.0                            | --                        | --                               | --              | --                     | --                                     | BrW          |         |
| BNW 4                 | 425934   | 715423    | Weston, J.D.       | --             | 870.0                            | --                        | --                               | --              | --                     | --                                     | BrW          |         |
| BNW 5                 | 430050   | 715434    | Swift, J.          | --             | 950.0                            | --                        | --                               | --              | --                     | --                                     | BrW          |         |
| BNW 7                 | 430150   | 715439    | Town of Bennington | --             | 690.0                            | --                        | --                               | --              | --                     | --                                     |              |         |
| BNW 8                 | 430202   | 715430    | Town of Bennington | --             | 680.0                            | --                        | --                               | --              | --                     | --                                     |              |         |
| BNW 9                 | 430151   | 715456    | Town of Bennington | --             | 670.0                            | --                        | --                               | --              | --                     | --                                     |              |         |
| BNW 10                | 430059   | 715539    | Town of Bennington | --             | 610.0                            | --                        | --                               | --              | --                     | --                                     |              |         |
| BNW 11                | 430040   | 715401    | Pope, C.           | --             | 880.0                            | --                        | --                               | --              | --                     | --                                     | BrW          |         |
| BNW 13                | 425908   | 715351    | Clear Jr.          | 1984           | 920.0                            | --                        | --                               | --              | X                      | --                                     | BrW          |         |
| BNW 14                | 425928   | 715359    | Gladding           | 1985           | 900.0                            | --                        | --                               | --              | X                      | --                                     | BrW          |         |
| BNW 15                | 430150   | 715400    | Trow               | 1985           | 740.0                            | --                        | --                               | --              | X                      | --                                     | BrW          |         |
| BNW 16                | 430231   | 715457    | King               | 1985           | 640.0                            | --                        | --                               | --              | X                      | --                                     | BrW          |         |
| BNW 17                | 425934   | 715338    | Carswell           | 1985           | 980.0                            | --                        | --                               | --              | X                      | --                                     | BrW          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number     | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks               |
|-----------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|-----------------------|
| Hillsborough County   |                          |                 |                      |                         |                 |                                  |                        |                       |
| Bennington--Continued |                          |                 |                      |                         |                 |                                  |                        |                       |
| BNB 6                 | 1.3                      | 08-01-44        | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 7                 | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 8                 | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 9                 | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 10                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 11                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 12                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 13                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 14                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 15                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 16                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 17                | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNB 18                | 15.0                     | 04-12-89        | T                    | --                      | --              | --                               | --                     | USGS;Z                |
| BNW 1                 | --                       | -----           | H                    | .5                      | --              | --                               | --                     | Bedrock               |
| BNW 3                 | --                       | -----           | --                   | 10.0                    | --              | --                               | --                     | Bedrock               |
| BNW 4                 | --                       | -----           | --                   | 2.0                     | --              | --                               | --                     | Bedrock               |
| BNW 5                 | --                       | -----           | --                   | 3.0                     | --              | --                               | --                     | Bedrock               |
| BNW 7                 | 34.4                     | 04-14-83        | 0                    | --                      | --              | --                               | --                     |                       |
| BNW 8                 | 5.5                      | 04-14-83        | 0                    | --                      | --              | --                               | --                     |                       |
| BNW 9                 | --                       | -----           | 0                    | --                      | --              | --                               | --                     |                       |
| BNW 10                | 15.0                     | 05-13-83        | P                    | 875.0                   | 14.0            | 62.5                             | 24                     | Municipal supply well |
| BNW 11                | --                       | -----           | H                    | 20.0                    | --              | --                               | --                     |                       |
| BNW 13                | --                       | -----           | H                    | 3.0                     | --              | --                               | --                     |                       |
| BNW 14                | 1.0                      | 06-03-85        | H                    | 30.0                    | --              | --                               | 1.0                    |                       |
| BNW 15                | 35.0                     | 06-16-85        | H                    | 12.0                    | --              | --                               | 1.0                    |                       |
| BNW 16                | --                       | -----           | H                    | 12.0                    | --              | --                               | .5                     |                       |
| BNW 17                | 10.0                     | 11-08-85        | H                    | 15.0                    | --              | --                               | 1.0                    |                       |



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or open well | Depth to bottom of well (feet) | Type |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|-------------------------------------|--------------------------------|------|
| DEB 1             | 430606   | 715359    | --                  | --             | 610.0                            | --                        | --                               | --              | --                                  | --                             | TH   |
| DEW 2             | 430542   | 715234    | Jackson, T.         | --             | 900.0                            | --                        | --                               | --              | --                                  | --                             |      |
| DEW 4             | 430559   | 715255    | Marshall            | --             | 740.0                            | --                        | --                               | --              | --                                  | --                             | BrW  |
| DEW 5             | 430600   | 715258    | Poland, M.          | --             | 730.0                            | --                        | --                               | --              | --                                  | --                             | BrW  |
| DEW 6             | 430608   | 715302    | Cote                | --             | 700.0                            | --                        | --                               | --              | --                                  | --                             | BrW  |
| DEW 7             | 430558   | 715225    | Williams            | --             | 920.0                            | --                        | --                               | --              | --                                  | --                             | BrW  |
| DEW 8             | 430537   | 715226    | Campbell, W.        | --             | 920.0                            | --                        | --                               | --              | --                                  | --                             | BrW  |
| DEW 9             | 430529   | 715134    | Blise, C.           | --             | 1090.0                           | --                        | --                               | --              | --                                  | --                             | BrW  |
| DEW 12            | 430614   | 715408    | Holder              | 1984           | 600.0                            | --                        | 221.0                            | --              | X                                   | --                             | BrW  |
| DEW 18            | 430319   | 715349    | Frost               | 1985           | 650.0                            | --                        | 119.0                            | --              | --                                  | --                             |      |
| DEW 19            | 430536   | 715129    | Franklin            | 1985           | 1060.0                           | --                        | 130.0                            | --              | X                                   | --                             | BrW  |
| DEW 20            | 430327   | 715339    | Bennett             | 1986           | 710.0                            | --                        | 84.0                             | --              | X                                   | --                             | BrW  |
| DEW 24            | 430321   | 715355    | Butler              | 1985           | 610.0                            | --                        | 112.0                            | --              | X                                   | --                             | BrW  |
| DEW 26            | 430611   | 715254    | Duerfield           | 1986           | 740.0                            | --                        | 23.0                             | --              | X                                   | --                             | BrW  |
| DEW 30            | 430411   | 715421    | Feather             | 1986           | 600.0                            | --                        | 91.0                             | --              | X                                   | --                             | BrW  |
| DEW 33            | 430548   | 715144    | Payne               | 1987           | 980.0                            | --                        | 161.0                            | --              | X                                   | --                             | BrW  |
| DEW 34            | 430607   | 715206    | Allen               | 1987           | 1000.0                           | --                        | 106.0                            | --              | X                                   | --                             | BrW  |
| DEW 35            | 430519   | 715256    | Belliveau           | 1987           | 910.0                            | --                        | 79.0                             | --              | X                                   | --                             | BrW  |
| DEW 38            | 430258   | 715352    | Fortier             | 1987           | 720.0                            | --                        | 55.0                             | --              | X                                   | --                             | BrW  |
| DEW 39            | 430605   | 715204    | Houghton            | 1987           | 1000.0                           | --                        | 105.0                            | --              | X                                   | --                             | BrW  |
| DEW 40            | 430528   | 715131    | Fraser              | 1987           | 1130.0                           | --                        | 110.0                            | --              | X                                   | --                             | BrW  |
| DEW 41            | 430405   | 715222    | Winsor Construction | 1987           | 1200.0                           | --                        | 57.0                             | --              | X                                   | --                             | BrW  |
| DEW 47            | 430300   | 715351    | Lawrence            | 1988           | 680.0                            | --                        | 69.0                             | --              | X                                   | --                             | BrW  |
| DEW 49            | 430610   | 715305    | Aucclair            | 1987           | 690.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW  |
| DEW 51            | 430559   | 715257    | Greene              | 1988           | 720.0                            | --                        | 34.0                             | --              | X                                   | --                             | BrW  |
| DEW 57            | 430203   | 715252    | Crowley             | 1985           | 870.0                            | --                        | 110.0                            | --              | X                                   | --                             | BrW  |
| DEW 59            | 430436   | 715438    | --                  | 1989           | 600.0                            | 2                         | 13.0                             | P               | S                                   | 15.0                           | TH   |
| DEW 60            | 430559   | 715325    | --                  | 1989           | 650.0                            | 2                         | 38.0                             | P               | S                                   | 40.0                           | TH   |
| DEW 62            | 430622   | 715346    | Dumais              | 1989           | 0.0                              | --                        | 246.0                            | --              | X                                   | --                             | BrW  |
| DEW 67            | 430448   | 715439    | Johnson City MHP    | --             | 595.0                            | --                        | 145.0                            | P               | --                                  | --                             | --   |

Hillsborough County

Deering

| Local site number | Water Level Date (mm-yy) | Depth (feet) | Use of site or water | Maximum well yield (gal/min) | Specific capacity (gal/min)/ft | Pumping period (hours) | Remarks |
|-------------------|--------------------------|--------------|----------------------|------------------------------|--------------------------------|------------------------|---------|
| DEB 1             | ----                     | --           | T                    | --                           | --                             | --                     | USGS:Z  |
| DEW 2             | ----                     | --           | H                    | 20.0                         | --                             | --                     |         |
| DEW 4             | ----                     | --           | H                    | .7                           | --                             | --                     |         |
| DEW 5             | ----                     | --           | H                    | 2.0                          | --                             | --                     |         |
| DEW 6             | ----                     | --           | H                    | 1.5                          | --                             | --                     |         |
| DEW 7             | ----                     | --           | H                    | .7                           | --                             | --                     |         |
| DEW 8             | ----                     | --           | H                    | 10.0                         | --                             | --                     |         |
| DEW 9             | ----                     | --           | H                    | 50.0                         | --                             | --                     |         |
| DEW 12            | ----                     | --           | H                    | 50.0                         | --                             | 1.0                    |         |
| DEW 18            | 07-19-85                 | 24.0         | H                    | 5.0                          | --                             | 4.0                    |         |
| DEW 19            | ----                     | --           | H                    | 20.0                         | --                             | .3                     |         |
| DEW 20            | ----                     | --           | H                    | 7.0                          | --                             | 1.0                    |         |
| DEW 24            | ----                     | --           | H                    | 30.0                         | --                             | 1.0                    |         |
| DEW 26            | ----                     | --           | H                    | 10.0                         | --                             | 1.0                    |         |
| DEW 30            | 10-02-86                 | 15.0         | H                    | 4.0                          | --                             | .8                     |         |
| DEW 33            | ----                     | --           | H                    | 35.0                         | --                             | --                     |         |
| DEW 34            | 07-01-87                 | 1.0          | H                    | 3.0                          | --                             | .5                     |         |
| DEW 35            | ----                     | --           | H                    | 8.0                          | --                             | 1.0                    |         |
| DEW 38            | 12-09-87                 | 35.0         | H                    | 12.0                         | --                             | --                     |         |
| DEW 39            | 10-20-87                 | 30.0         | H                    | 20.0                         | --                             | --                     |         |
| DEW 40            | ----                     | --           | H                    | 6.0                          | --                             | --                     |         |
| DEW 41            | 08-12-87                 | 8.0          | H                    | 15.0                         | --                             | --                     |         |
| DEW 47            | 03-22-88                 | 20.0         | H                    | 15.0                         | --                             | 1.0                    |         |
| DEW 49            | ----                     | --           | H                    | 1.5                          | --                             | .3                     |         |
| DEW 51            | 06-02-88                 | 35.0         | H                    | 5.0                          | --                             | .3                     |         |
| DEW 57            | ----                     | --           | H                    | 25.0                         | --                             | .3                     |         |
| DEW 59            | 06-22-89                 | 2.4          | T                    | 1.4                          | .1                             | 17                     | USGS:Z  |
| DEW 60            | 08-25-89                 | 1.8          | T                    | --                           | --                             | --                     | USGS:Z  |
| DEW 62            | 08-23-89                 | 35.0         | H                    | 9.0                          | --                             | .5                     |         |
| DEW 67            | ----                     | --           | P                    | --                           | --                             | --                     |         |

Hillsborough County

Deering



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of open well (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|-------------------------------------|--------------|---------|
| GSW 5             | 425717   | 715229    | Chute, John             | 1957           | 850.0                            | --                        | --                               | --              | --                     | --                                  | BrW          |         |
| GSW 6             | 425617   | 715214    | Chure, Anna             | 1961           | 820.0                            | --                        | 60.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 7             | 425820   | 715234    | Crotched Mtn. Rehab. Ce | 1957           | 1350.0                           | --                        | 43.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 8             | 425713   | 715225    | Creighton, Eugene W.    | 1957           | 830.0                            | --                        | 78.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 11            | 425645   | 715148    | Field, John H.          | 1963           | 910.0                            | --                        | 142.0                            | --              | --                     | --                                  | BrW          |         |
| GSW 12            | 425640   | 715446    | Fifths, Lincoln         | 1954           | 850.0                            | --                        | 19.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 13            | 425650   | 715359    | Goodkin, Richard        | 1959           | 810.0                            | --                        | 65.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 14            | 425700   | 715219    | Greenfield Parsonage    | 1962           | 840.0                            | --                        | 135.0                            | --              | --                     | --                                  | BrW          |         |
| GSW 15            | 425703   | 715224    | Greenfield School       | 1955           | 840.0                            | --                        | 94.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 18            | 425609   | 715111    | Mather, Eugene          | 1962           | 870.0                            | --                        | 259.0                            | --              | --                     | --                                  | BrW          |         |
| GSW 19            | 425714   | 715416    | O'Laughlin, John        | 1961           | 840.0                            | --                        | 12.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 20            | 425633   | 715211    | Shea, George            | 1964           | 820.0                            | --                        | 80.0                             | --              | --                     | --                                  | BrW          |         |
| GSW 21            | 425702   | 715251    | Summer, Starr           | 1959           | 830.0                            | --                        | 100.0                            | --              | --                     | --                                  | BrW          |         |
| GSW 22            | 425639   | 715640    | Harris, Donald          | 1949           | 690.0                            | --                        | --                               | --              | --                     | --                                  | BrW          |         |
| GSW 25            | 425715   | 715204    | Brodie                  | --             | 890.0                            | --                        | --                               | --              | --                     | --                                  | BrW          |         |
| GSW 26            | 425709   | 715213    | Belmore                 | --             | 880.0                            | --                        | --                               | --              | --                     | --                                  | BrW          |         |
| GSW 28            | 425657   | 715204    | Paro                    | --             | 890.0                            | --                        | --                               | --              | --                     | --                                  | BrW          |         |
| GSW 29            | 425652   | 715143    | Graphear, D.            | --             | 890.0                            | --                        | --                               | --              | --                     | --                                  | BrW          |         |
| GSW 30            | 425851   | 715523    | --                      | 1988           | 710.0                            | 2                         | 28.0                             | PVC             | \$                     | 30                                  | TH           |         |
| GSW 31            | 425553   | 715242    | --                      | 1988           | 810.0                            | 2                         | 50.0                             | PVC             | \$                     | 52                                  | TH           |         |
| GSW 32            | 425658   | 715304    | --                      | 1988           | 840.0                            | 2                         | 98.0                             | PVC             | \$                     | 100                                 | TH           |         |
| GSW 33            | 425549   | 715214    | Gagnon                  | 1984           | 880.0                            | --                        | 288.0                            | --              | X                      | --                                  | BrW          |         |
| GSW 34            | 425657   | 715316    | Sullivan                | 1984           | 840.0                            | --                        | 104.0                            | --              | X                      | --                                  | BrW          |         |
| GSW 36            | 425753   | 715317    | Ferry                   | 1985           | 880.0                            | --                        | 41.0                             | --              | X                      | --                                  | BrW          |         |
| GSW 37            | 425647   | 715633    | Hurley                  | 1985           | 700.0                            | --                        | 80.0                             | --              | X                      | --                                  | BrW          |         |
| GSW 38            | 425633   | 715633    | Kennedy                 | 1985           | 700.0                            | --                        | 120.0                            | --              | X                      | --                                  | BrW          |         |
| GSW 39            | 425650   | 715637    | Metivier                | 1985           | 700.0                            | --                        | 117.0                            | --              | X                      | --                                  | BrW          |         |
| GSW 41            | 425712   | 715528    | Ferry                   | 1986           | 760.0                            | --                        | 74.0                             | --              | X                      | --                                  | BrW          |         |
| GSW 42            | 425543   | 715149    | French                  | 1986           | 1080.0                           | --                        | 19.0                             | --              | X                      | --                                  | BrW          |         |
| GSW 43            | 425538   | 715148    | Elliot                  | 1985           | 1080.0                           | --                        | 29.0                             | --              | X                      | --                                  | BrW          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Water Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/(ft)) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------------------|----------------------|-------------------------|-----------------|------------------------------------|------------------------|---------|
| GSW 5             | 15.0                     | 09-00-57                    | H                    | 18.0                    | --              | --                                 | --                     | Bedrock |
| GSW 6             | 12.0                     | 08-00-61                    | H                    | 8.0                     | --              | --                                 | --                     | Bedrock |
| GSW 7             | 11.0                     | 00-00-57                    | H                    | 10.0                    | --              | --                                 | --                     | Bedrock |
| GSW 8             | 27.0                     | 08-00-57                    | H                    | 20.0                    | --              | --                                 | --                     | Bedrock |
| GSW 11            | 60.0                     | 09-00-63                    | H                    | 10.0                    | --              | --                                 | --                     | Bedrock |
| GSW 12            | 1.5                      | 00-00-54                    | H                    | 7.0                     | --              | --                                 | --                     | Bedrock |
| GSW 13            | 10.0                     | 03-00-59                    | H                    | 7.0                     | --              | --                                 | --                     | Bedrock |
| GSW 14            | 30.0                     | 01-22-62                    | H                    | 8.0                     | --              | --                                 | --                     | Bedrock |
| GSW 15            | 15.0                     | 08-06-55                    | H                    | 25.0                    | --              | --                                 | --                     | Bedrock |
| GSW 18            | 165.0                    | 10-26-62                    | H                    | 25.0                    | --              | --                                 | --                     | Bedrock |
| GSW 19            | 6.0                      | 10-00-61                    | H                    | 6.0                     | --              | --                                 | --                     | Bedrock |
| GSW 20            | 25.0                     | 06-00-64                    | H                    | 4.5                     | --              | --                                 | --                     | Bedrock |
| GSW 21            | 22.0                     | 11-00-59                    | H                    | 4.5                     | --              | --                                 | --                     | Bedrock |
| GSW 22            | --                       | 00-00-00                    | H                    | 5.0                     | --              | --                                 | --                     | Bedrock |
| GSW 25            | 25.0                     | 07-07-82                    | H                    | 30.0                    | --              | --                                 | --                     |         |
| GSW 26            | 40.0                     | 07-20-83                    | H                    | 6.0                     | --              | --                                 | --                     |         |
| GSW 28            | 25.0                     | 06-22-82                    | H                    | 4.0                     | --              | --                                 | --                     |         |
| GSW 29            | --                       | 00-00-00                    | H                    | 30.0                    | --              | --                                 | --                     |         |
| GSW 30            | 12.5                     | 06-29-89                    | T                    | 8                       | 3.0             | 0.3                                | 0.75                   | USGS;2  |
| GSW 31            | 6.0                      | 09-30-88                    | T                    | --                      | --              | --                                 | --                     | USGS;2  |
| GSW 32            | 35.4                     | 06-22-89                    | T                    | --                      | --              | --                                 | --                     | USGS;2  |
| GSW 33            | --                       | 00-00-00                    | H                    | 4.0                     | --              | --                                 | 1.0                    |         |
| GSW 34            | 30.0                     | 10-11-84                    | H                    | 10.0                    | --              | --                                 | 1.5                    |         |
| GSW 36            | 1.0                      | 04-26-85                    | H                    | 5.5                     | --              | --                                 | .5                     |         |
| GSW 37            | 20.0                     | 12-19-85                    | H                    | 2.0                     | --              | --                                 | --                     |         |
| GSW 38            | 20.0                     | 12-16-85                    | H                    | 8.0                     | --              | --                                 | --                     |         |
| GSW 39            | --                       | 00-00-00                    | H                    | 2.5                     | --              | --                                 | --                     |         |
| GSW 41            | --                       | 00-00-00                    | H                    | 14.0                    | --              | --                                 | 1.0                    |         |
| GSW 42            | 20.0                     | 08-12-86                    | H                    | 6.0                     | --              | --                                 | 1.0                    |         |
| GSW 43            | --                       | 00-00-00                    | H                    | 4.0                     | --              | --                                 | 2.0                    |         |



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user      | Year completed | Elevation              |                       | Diameter of well casing (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or (feet) spring | Type of well |
|-------------------|----------|-----------|--------------------|----------------|------------------------|-----------------------|----------------------------------|----------------------------------|-----------------|----------------|---|--------------|
|                   |          |           |                    |                | above sea level (feet) | bottom of well (feet) |                                  |                                  |                 |                |   |              |
| HGB 1             | 425724   | 715607    | NH PUB WKS HHY     | --             | 670.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 2             | 425725   | 715608    | NH PUB WKS HHY     | --             | 670.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 3             | 425617   | 715752    | NH PUB WKS HHY     | --             | 690.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 4             | 425824   | 715642    | NH PUB WKS HHY     | --             | 690.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 5             | 425716   | 715743    | --                 | --             | 700.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 6             | 425913   | 715613    | --                 | --             | 690.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 7             | 425701   | 715648    | --                 | --             | 690.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGB 8             | 425725   | 715609    | NH PUB WKS HHY     | --             | 670.0                  | --                    | --                               | --                               | --              | --             | --  | TH           |
| HGM 2             | 425647   | 715908    | Bott, David        | 1959           | 870.0                  | --                    | 21.0                             | --                               | --              | --             | --  | BrW          |
| HGM 4             | 430024   | 720134    | Carpenter, V.H.    | 1954           | 1160.0                 | --                    | 144.0                            | --                               | --              | --             | --  | BrW          |
| HGM 5             | 425717   | 715821    | Chace, Robert      | 1961           | 830.0                  | --                    | 297.0                            | --                               | --              | --             | --  | BrW          |
| HGM 6             | 425902   | 715816    | Crissy, Cecil R.   | 1964           | 870.0                  | --                    | 117.0                            | --                               | --              | --             | --  | BrW          |
| HGM 8             | 425819   | 715718    | Daniels, A.H.      | 1960           | 780.0                  | --                    | 190.0                            | --                               | --              | --             | --  | BrW          |
| HGM 10            | 425725   | 715910    | Gentsch, George    | 1964           | 760.0                  | --                    | 65.0                             | --                               | --              | --             | --  | BrW          |
| HGM 12            | 425739   | 715953    | Hensley            | 1947           | 900.0                  | --                    | 39.0                             | --                               | --              | --             | --  | BrW          |
| HGM 13            | 425630   | 715841    | Hill, William      | 1964           | 840.0                  | --                    | 176.0                            | --                               | --              | --             | --  | BrW          |
| HGM 14            | 430023   | 715829    | Hithcock, James E. | 1962           | 1040.0                 | --                    | 75.0                             | --                               | --              | --             | --  | BrW          |
| HGM 15            | 425655   | 720153    | Irving, Joseph     | 1955           | 1070.0                 | --                    | 50.0                             | --                               | --              | --             | --  | BrW          |
| HGM 16            | 430001   | 715659    | Larson, Carl L.    | 1950           | 970.0                  | --                    | 148.0                            | --                               | --              | --             | --  | BrW          |
| HGM 18            | 425922   | 715809    | Paquette, Lawrence | 1962           | 830.0                  | --                    | 73.0                             | --                               | --              | --             | --  | BrW          |
| HGM 19            | 425637   | 715748    | Russ, Alfred       | 1953           | 740.0                  | --                    | 138.0                            | --                               | --              | --             | --  | BrW          |
| HGM 20            | 425735   | 715828    | Snedeker, John     | 1964           | 800.0                  | --                    | 60.0                             | --                               | --              | --             | --  | BrW          |
| HGM 21            | 425759   | 715820    | Trombley           | 1953           | 920.0                  | --                    | 85.0                             | --                               | --              | --             | --  | BrW          |
| HGM 22            | 425746   | 715659    | Wallace, John      | 1959           | 780.0                  | --                    | 206.0                            | --                               | --              | --             | --  | BrW          |
| HGM 23            | 425820   | 715750    | Waterbury, Lester  | 1960           | 990.0                  | --                    | 55.0                             | --                               | --              | --             | --  | BrW          |
| HGM 24            | 430003   | 715826    | White, James H.    | 1954           | 940.0                  | --                    | 29.0                             | --                               | --              | --             | --  | BrW          |
| HGM 26            | 425839   | 715919    | --                 | --             | 900.0                  | --                    | --                               | --                               | --              | --             | --  | BrW          |

Hillsborough County

Hancock--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity [(gal/min)/(ft)] | Pumping period (hours) | Remarks                  |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|------------------|------------------------------------|------------------------|--------------------------|
|                   |                          |                 |                      |                         |                  |                                    |                        |                          |
| HGB 1             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | Bridge 158/068 boring 10 |
| HGB 2             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | Bridge 158/068 boring 2  |
| HGB 3             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | Bridge 132/043 boring B1 |
| HGB 4             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | Bridge 148/091 boring B1 |
| HGB 5             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | USGS;Z                   |
| HGB 6             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | USGS;Z                   |
| HGB 7             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | USGS;Z                   |
| HGB 8             | --                       | -----           | T                    | --                      | --               | --                                 | --                     | Bridge 158/068 boring 10 |
| HGM 2             | 3.0                      | 09----59        | H                    | 3.5                     | --               | --                                 | --                     | Bedrock                  |
| HGM 4             | 40.0                     | 01-24-54        | H                    | 9.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 5             | 60.0                     | 02----61        | H                    | 20.0                    | --               | --                                 | --                     | Bedrock                  |
| HGM 6             | 20.0                     | 03----64        | H                    | 15.0                    | --               | --                                 | --                     | Bedrock                  |
| HGM 8             | 18.0                     | 08----60        | H                    | 9.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 10            | 10.0                     | 02----64        | H                    | 12.0                    | --               | --                                 | --                     | Bedrock                  |
| HGM 12            | 20.0                     | -----47         | H                    | 5.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 13            | 40.0                     | 01----64        | H                    | 12.0                    | --               | --                                 | --                     | Bedrock                  |
| HGM 14            | 36.0                     | 01----62        | H                    | 3.5                     | --               | --                                 | --                     | Bedrock                  |
| HGM 15            | 20.0                     | 08----55        | H                    | 3.1                     | --               | --                                 | --                     | Bedrock                  |
| HGM 16            | 20.0                     | -----50         | H                    | 3.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 18            | 27.0                     | 06----62        | H                    | 6.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 19            | --                       | -----           | H                    | --                      | --               | --                                 | --                     | Bedrock                  |
| HGM 20            | 10.0                     | 01----64        | H                    | 6.5                     | --               | --                                 | --                     | Bedrock                  |
| HGM 21            | 30.0                     | 08-28-53        | H                    | 6.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 22            | 60.0                     | 10----59        | H                    | 7.5                     | --               | --                                 | --                     | Bedrock                  |
| HGM 23            | 15.0                     | 07----60        | H                    | 12.0                    | --               | --                                 | --                     | Bedrock                  |
| HGM 24            | 12.0                     | -----54         | H                    | 4.0                     | --               | --                                 | --                     | Bedrock                  |
| HGM 26            | --                       | -----           | O                    | --                      | --               | --                                 | --                     | Bedrock                  |

Hillsborough County

Hancock--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user   | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom casing (feet) | Casing material | Type of finish section or open well (feet) | Depth to bottom of well (feet) | Type of well |
|-------------------|----------|-----------|-----------------|----------------|----------------------------------|---------------------------|-------------------------------|-----------------|--|--------------------------------|--------------|
| HGM 27            | 425817   | 720038    | Town of Hancock | --             | 1000.0                           | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 28            | 425755   | 715908    | Town of Hancock | --             | 730.0                            | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 29            | 425804   | 720103    | Town of Hancock | --             | 1100.0                           | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 29            | 425804   | 720103    | Town of Hancock | --             | 1100.0                           | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 30            | 425805   | 720100    | Town of Hancock | --             | 1100.0                           | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 31            | 425652   | 715809    | Klemper         | --             | 760.0                            | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 33            | 425846   | 715830    | Town of Hancock | --             | 920.0                            | --                        | --                            | --              | --   | --                             | BrW          |
| HGM 37            | 425736   | 715954    | Fields          | 1984           | 920.0                            | --                        | 149.0                         | X               | --   | --                             | BrW          |
| HGM 38            | 425859   | 715840    | Quinlan Realty  | 1984           | 840.0                            | --                        | 8.0                           | --              | --   | --                             | BrW          |
| HGM 39            | 425702   | 715813    | Neary           | 1984           | 820.0                            | --                        | 159.0                         | X               | --   | --                             | BrW          |
| HGM 40            | 425913   | 720151    | Clark           | 1984           | 1300.0                           | --                        | 69.0                          | X               | --   | --                             | BrW          |
| HGM 41            | 425921   | 715827    | Pel             | 1985           | 840.0                            | --                        | 144.0                         | X               | --   | --                             | BrW          |
| HGM 42            | 425948   | 720046    | Conlon          | 1985           | 1410.0                           | --                        | 20.0                          | X               | --   | --                             | BrW          |
| HGM 43            | 425737   | 715713    | Magoon          | 1985           | 780.0                            | --                        | 184.0                         | X               | --   | --                             | BrW          |
| HGM 44            | 425736   | 720139    | Kulish          | 1985           | 1160.0                           | --                        | 26.0                          | X               | --   | --                             | BrW          |
| HGM 45            | 425920   | 715846    | Senecal         | 1985           | 900.0                            | --                        | 174.0                         | X               | --   | --                             | BrW          |
| HGM 46            | 425948   | 715654    | Tripp           | 1985           | 900.0                            | --                        | 164.0                         | X               | --   | --                             | BrW          |
| HGM 47            | 430001   | 715823    | Digweed         | 1985           | 940.0                            | --                        | 119.0                         | X               | --   | --                             | BrW          |
| HGM 48            | 425916   | 720150    | Cutter          | 1985           | 1320.0                           | --                        | 34.0                          | X               | --   | --                             | BrW          |
| HGM 49            | 425941   | 715650    | Foster          | 1985           | 850.0                            | --                        | 149.0                         | X               | --   | --                             | BrW          |
| HGM 50            | 425728   | 715612    | Harrington      | 1986           | 700.0                            | --                        | 167.0                         | X               | --   | --                             | BrW          |
| HGM 51            | 425915   | 715816    | Smith           | 1986           | 820.0                            | --                        | 45.0                          | X               | --   | --                             | BrW          |
| HGM 52            | 425932   | 715654    | Morrill         | 1986           | 820.0                            | --                        | 186.0                         | X               | --   | --                             | BrW          |
| HGM 53            | 430018   | 715628    | Rieseler        | 1986           | 1020.0                           | --                        | 13.0                          | X               | --   | --                             | BrW          |
| HGM 54            | 425855   | 715815    | Dechert         | 1985           | 900.0                            | --                        | 182.0                         | X               | --   | --                             | BrW          |
| HGM 55            | 425946   | 720044    | Ames            | 1985           | 1417.0                           | --                        | 22.0                          | X               | --   | --                             | BrW          |
| HGM 56            | 425634   | 715713    | Chamberlain     | 1984           | 700.0                            | --                        | 140.0                         | X               | --   | --                             | BrW          |
| HGM 57            | 425943   | 715642    | Britton         | 1986           | 870.0                            | --                        | 211.0                         | X               | --   | --                             | BrW          |
| HGM 58            | 425954   | 715843    | Dang            | 1986           | 920.0                            | --                        | 114.0                         | X               | --   | --                             | BrW          |
| HGM 59            | 425948   | 720248    | Robinson        | 1986           | 1380.0                           | --                        | 19.0                          | X               | --   | --                             | BrW          |

Hillsborough County

Hancock--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks               |
|-------------------|-----------------------------|--------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|-----------------------|
| HGM 27            | 12-02-82                    | 1.2          | O                    | --                      | --              | --                               | --                     |                       |
| HGM 28            | -----                       | --           | O                    | --                      | --              | --                               | --                     |                       |
| HGM 29            | 12-15-82                    | 1.3          | P                    | 35.0                    | 2.8             | 12.5                             | 3.5                    | Municipal supply well |
| HGM 29            | 12-15-82                    | 1.3          | P                    | 35.0                    | 3.6             | 9.8                              | 1.5                    | Municipal supply well |
| HGM 30            | 12-09-82                    | 3.0          | O                    | --                      | --              | --                               | --                     |                       |
| HGM 31            | 05------83                  | 40.0         | H                    | 35.0                    | --              | --                               | --                     |                       |
| HGM 33            | 10------83                  | 16.0         | O                    | --                      | --              | --                               | --                     |                       |
| HGM 37            | -----                       | --           | H                    | 1.3                     | --              | --                               | --                     |                       |
| HGM 38            | 06-21-84                    | 3.0          | H                    | 6.0                     | --              | --                               | 2.0                    |                       |
| HGM 39            | -----                       | --           | H                    | 4.3                     | --              | --                               | .8                     |                       |
| HGM 40            | 09-30-84                    | 8.0          | H                    | 15.0                    | --              | --                               | 1.0                    |                       |
| HGM 41            | 01-02-85                    | 10.0         | H                    | 20.0                    | --              | --                               | 1.0                    |                       |
| HGM 42            | 04-02-85                    | 60.0         | H                    | 6.0                     | --              | --                               | 1.3                    |                       |
| HGM 43            | 05-16-85                    | 40.0         | H                    | 5.5                     | --              | --                               | 1.0                    |                       |
| HGM 44            | -----                       | --           | H                    | 2.0                     | --              | --                               | 3.0                    |                       |
| HGM 45            | -----                       | --           | H                    | 4.5                     | --              | --                               | --                     |                       |
| HGM 46            | -----                       | --           | H                    | 2.5                     | --              | --                               | --                     |                       |
| HGM 47            | 08-01-85                    | 12.0         | H                    | 1.6                     | --              | --                               | --                     |                       |
| HGM 48            | -----                       | --           | H                    | 2.0                     | --              | --                               | --                     |                       |
| HGM 49            | -----                       | --           | H                    | 10.0                    | --              | --                               | 1.0                    |                       |
| HGM 50            | 01-09-86                    | 20.0         | H                    | 10.0                    | --              | --                               | 1.0                    |                       |
| HGM 51            | 01-30-86                    | 1.0          | H                    | 20.0                    | --              | --                               | 1.0                    |                       |
| HGM 52            | -----                       | --           | H                    | 30.0                    | --              | --                               | --                     |                       |
| HGM 53            | 05-27-86                    | 30.0         | --                   | 25.0                    | --              | --                               | 1.0                    |                       |
| HGM 54            | 09-24-85                    | 50.0         | H                    | 19.0                    | --              | --                               | 1.0                    |                       |
| HGM 55            | 10-07-85                    | 65.0         | H                    | 7.0                     | --              | --                               | 1.0                    |                       |
| HGM 56            | 08-16-84                    | 20.0         | H                    | 6.0                     | --              | --                               | 1.0                    |                       |
| HGM 57            | 10-21-86                    | 35.0         | H                    | 6.0                     | --              | --                               | 5.0                    |                       |
| HGM 58            | -----                       | --           | H                    | 4.0                     | --              | --                               | --                     |                       |
| HGM 59            | 10-15-86                    | 25.0         | H                    | .8                      | --              | --                               | --                     |                       |

Hillsborough County

Hancock--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user            | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or spring (feet) | Type of well | Remarks |
|-------------------|----------|-----------|--------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|--------------|---------|
| HGM 60            | 425751   | 715751    | Hall                     | 1986           | 860.0                            | --                        | 141.0                            | --              | X              | --  | BrW          |         |
| HGM 61            | 425642   | 720109    | Williams                 | 1986           | 980.0                            | --                        | 80.0                             | --              | X              | --  | BrW          |         |
| HGM 62            | 430001   | 715651    | Gustavson                | 1986           | 930.0                            | --                        | 61.0                             | --              | X              | --  | BrW          |         |
| HGM 63            | 425906   | 715946    | HMJ Ames Ent Inc.        | 1986           | 1040.0                           | --                        | 115.0                            | --              | --             | --  | BrW          |         |
| HGM 64            | 425913   | 715842    | Smith                    | 1986           | 890.0                            | --                        | 149.0                            | --              | X              | --  | BrW          |         |
| HGM 65            | 425643   | 720048    | Hird                     | 1986           | 960.0                            | --                        | 39.0                             | --              | X              | --  | BrW          |         |
| HGM 66            | 430009   | 715826    | Salmer                   | 1986           | 970.0                            | --                        | 59.0                             | --              | X              | --  | BrW          |         |
| HGM 67            | 425958   | 715829    | Pirkey                   | 1986           | 920.0                            | --                        | 119.0                            | --              | X              | --  | BrW          |         |
| HGM 68            | 430025   | 720203    | Parsons                  | 1987           | 1220.0                           | --                        | 114.0                            | --              | X              | --  | BrW          |         |
| HGM 69            | 425924   | 715802    | Beers                    | 1987           | 830.0                            | --                        | 50.0                             | --              | X              | --  | BrW          |         |
| HGM 70            | 425943   | 720045    | Spivey                   | 1986           | 1400.0                           | --                        | 39.0                             | --              | X              | --  | BrW          |         |
| HGM 71            | 425824   | 715752    | Bosche                   | 1986           | 1000.0                           | --                        | 74.0                             | --              | X              | --  | BrW          |         |
| HGM 72            | 425940   | 720044    | Hertzler                 | 1986           | 1380.0                           | --                        | 49.0                             | --              | X              | --  | BrW          |         |
| HGM 73            | 425749   | 715936    | Sweeney                  | 1986           | 860.0                            | --                        | 139.0                            | --              | X              | --  | BrW          |         |
| HGM 74            | 425917   | 715746    | Paquette                 | 1986           | 780.0                            | --                        | 39.5                             | --              | X              | --  | BrW          |         |
| HGM 75            | 425925   | 720023    | Ketchum                  | 1987           | 1300.0                           | --                        | 24.0                             | --              | X              | --  | BrW          |         |
| HGM 76            | 425930   | 715921    | Mellion                  | 1987           | 1080.0                           | --                        | 176.0                            | --              | X              | --  | BrW          |         |
| HGM 77            | 425932   | 715857    | Duval                    | 1986           | 940.0                            | --                        | 287.0                            | --              | X              | --  | BrW          |         |
| HGM 78            | 425655   | 715814    | Richardson               | 1987           | 770.0                            | --                        | 209.0                            | --              | X              | --  | BrW          |         |
| HGM 79            | 425929   | 715652    | Commander                | 1987           | 820.0                            | --                        | 229.0                            | --              | X              | --  | BrW          |         |
| HGM 80            | 430029   | 720154    | Scott                    | 1987           | 1220.0                           | --                        | 60.0                             | --              | X              | --  | BrW          |         |
| HGM 81            | 425816   | 715635    | Patch                    | 1987           | 700.0                            | --                        | 19.0                             | --              | X              | --  | BrW          |         |
| HGM 82            | 425910   | 715843    | Paquette Sr.             | 1988           | 880.0                            | --                        | 149.0                            | --              | X              | --  | BrW          |         |
| HGM 83            | 425857   | 715829    | Highway Dept Patrol Shed | 1988           | 840.0                            | --                        | 79.0                             | --              | X              | --  | BrW          |         |
| HGM 84            | 425851   | 720133    | Billings                 | 1988           | 1340.0                           | --                        | 35.0                             | --              | X              | --  | BrW          |         |
| HGM 85            | 425743   | 715702    | Sullivan                 | 1988           | 780.0                            | --                        | 92.0                             | --              | X              | --  | BrW          |         |
| HGM 86            | 425649   | 715909    | Fields                   | 1988           | 860.0                            | --                        | 41.0                             | --              | X              | --  | BrW          |         |
| HGM 87            | 425916   | 715750    | Hugron                   | 1989           | 790.0                            | --                        | 39.0                             | --              | X              | --  | BrW          |         |
| HGM 88            | 425713   | 715817    | Lindsey                  | 1989           | 820.0                            | --                        | 201.0                            | --              | X              | --  | BrW          |         |
| HGM 89            | 425732   | 715827    | Pickering                | 1989           | 800.0                            | --                        | 161.0                            | --              | X              | --  | BrW          |         |

Hillsborough County

Hancock--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity [(gal/min)/(ft)] | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|------------------|------------------------------------|------------------------|---------|
| HGM 60            | 15.0                     | 10-14-86        | H                    | 20.0                    | --               | --                                 | --                     |         |
| HGM 61            | 15.0                     | 09-30-86        | H                    | 20.0                    | --               | --                                 | --                     |         |
| HGM 62            | 50.0                     | 10-15-86        | H                    | 3.5                     | --               | --                                 | --                     |         |
| HGM 63            | --                       | ----            | H                    | 40.0                    | --               | --                                 | 4.5                    |         |
| HGM 64            | --                       | ----            | H                    | 6.0                     | --               | --                                 | 2.0                    |         |
| HGM 65            | --                       | ----            | H                    | 6.0                     | --               | --                                 | 2.5                    |         |
| HGM 66            | --                       | ----            | H                    | 4.0                     | --               | --                                 | 3.0                    |         |
| HGM 67            | 20.0                     | 06-05-86        | H                    | 9.0                     | --               | --                                 | 1.0                    |         |
| HGM 68            | 50.0                     | 01-15-87        | H                    | 6.0                     | --               | --                                 | 1.0                    |         |
| HGM 69            | --                       | ----            | H                    | 2.0                     | --               | --                                 | 2.0                    |         |
| HGM 70            | --                       | ----            | H                    | 2.5                     | --               | --                                 | --                     |         |
| HGM 71            | --                       | ----            | H                    | .8                      | --               | --                                 | --                     |         |
| HGM 72            | --                       | ----            | H                    | 4.0                     | --               | --                                 | --                     |         |
| HGM 73            | --                       | ----            | H                    | 10.0                    | --               | --                                 | --                     |         |
| HGM 74            | --                       | ----            | H                    | 40.0                    | --               | --                                 | .5                     |         |
| HGM 75            | 40.0                     | 09-01-87        | H                    | 6.0                     | --               | --                                 | 1.0                    |         |
| HGM 76            | --                       | ----            | H                    | 2.0                     | --               | --                                 | 1.0                    |         |
| HGM 77            | 35.0                     | 09-06-86        | H                    | 3.0                     | --               | --                                 | 1.5                    |         |
| HGM 78            | 70.0                     | 11-04-87        | H                    | 10.0                    | --               | --                                 | 1.0                    |         |
| HGM 79            | 40.0                     | 10-31-87        | H                    | 20.0                    | --               | --                                 | 1.0                    |         |
| HGM 80            | --                       | ----            | H                    | 5.0                     | --               | --                                 | --                     |         |
| HGM 81            | --                       | ----            | H                    | 7.5                     | --               | --                                 | 2.0                    |         |
| HGM 82            | --                       | ----            | H                    | 7.5                     | --               | --                                 | 2.0                    |         |
| HGM 83            | --                       | ----            | M                    | 7.5                     | --               | --                                 | 1.0                    |         |
| HGM 84            | 15.0                     | 10-08-88        | H                    | 20.0                    | --               | --                                 | 1.0                    |         |
| HGM 85            | 20.0                     | 11-30-88        | H                    | 20.0                    | --               | --                                 | 1.0                    |         |
| HGM 86            | --                       | ----            | H                    | 4.5                     | --               | --                                 | 1.0                    |         |
| HGM 87            | --                       | ----            | H                    | 3.5                     | --               | --                                 | --                     |         |
| HGM 88            | --                       | ----            | H                    | 7.0                     | --               | --                                 | 1.0                    |         |
| HGM 89            | --                       | ----            | H                    | 10.0                    | --               | --                                 | 1.0                    |         |

Hillsborough County

Hancock--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number   | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) | Type of well |
|---------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|--------------|
| HGM 94              | 425832   | 715859    | Huber               | 1989           | 840.0                            | --                        | 302.0                            | --              | X              | --  | BrW          |
| HGM 95              | 425650   | 715905    | Ruess, B.           | 1989           | 840.0                            | --                        | 173.0                            | --              | X              | --  | BrW          |
| HGM 96              | 425652   | 715908    | Graham              | 1990           | 840.0                            | --                        | 161.0                            | --              | X              | --  | BrW          |
| Hillsborough County |          |           |                     |                |                                  |                           |                                  |                 |                |   |              |
| Hancock--Continued  |          |           |                     |                |                                  |                           |                                  |                 |                |   |              |
| HOB 1               | 430811   | 715229    | NH PUB WKS HWY      | --             | 550.0                            | --                        | --                               | --              | --             | --  | TH           |
| HOB 2               | 430810   | 715231    | NH PUB WKS HWY      | --             | 550.0                            | --                        | --                               | --              | --             | --  | TH           |
| HOB 3               | 430647   | 715533    | NH PUB WKS HWY      | --             | 600.0                            | --                        | --                               | --              | --             | --  | TH           |
| HOB 4               | 430702   | 715723    | --                  | --             | 810.0                            | --                        | --                               | --              | --             | --  | TH           |
| HOB 5               | 430803   | 715834    | --                  | --             | 810.0                            | --                        | --                               | --              | --             | --  | TH           |
| Hillsborough        |          |           |                     |                |                                  |                           |                                  |                 |                |   |              |
| HOM 4               | 430820   | 715511    | Bruce, Robert       | 1955           | 810.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 5               | 430657   | 715741    | Ives, Roland        | 1960           | 920.0                            | --                        | 64.0                             | --              | --             | --  | BrW          |
| HOM 6               | 430843   | 715605    | Honeywell, Roy J.   | 1962           | 1060.0                           | --                        | 36.0                             | --              | --             | --  | BrW          |
| HOM 8               | 431015   | 715703    | Hall, David         | 1955           | 1030.0                           | --                        | 23.0                             | --              | --             | --  | BrW          |
| HOM 9               | 430757   | 715839    | Memming, George     | 1953           | 900.0                            | --                        | 65.0                             | --              | --             | --  | BrW          |
| HOM 10              | 430859   | 715713    | Vaughan, Richard C. | 1963           | 990.0                            | --                        | 99.0                             | --              | --             | --  | BrW          |
| HOM 11              | 430852   | 715609    | Wilkinson, Edith    | 1954           | 1200.0                           | --                        | 20.0                             | --              | --             | --  | BrW          |
| HOM 12              | 430656   | 715008    | Blanchard, Clifford | 1960           | 930.0                            | --                        | 226.0                            | --              | --             | --  | BrW          |
| HOM 13              | 431117   | 715751    | Brown, Stuart       | 1954           | 1080.0                           | --                        | 175.0                            | --              | --             | --  | BrW          |
| HOM 14              | 430645   | 715413    | Town of Hillsboro   | --             | 650.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 15              | 430656   | 715301    | Town of Hillsboro   | --             | 560.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 16              | 430721   | 715618    | Town of Hillsboro   | --             | 750.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 17              | 430632   | 715500    | Town of Hillsboro   | --             | 600.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 18              | 430637   | 715454    | Town of Hillsboro   | --             | 600.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 19              | 430734   | 715616    | Town of Hillsboro   | --             | 650.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 20              | 430649   | 715303    | Town of Hillsboro   | --             | 550.0                            | 2.5                       | --                               | --              | --             | --  | BrW          |
| HOM 21              | 430730   | 715300    | Town of Hillsboro   | 1979           | 550.0                            | 2.5                       | --                               | --              | --             | --  | BrW          |
| HOM 22              | 430739   | 715819    | Cate, F.            | --             | 940.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 23              | 430736   | 715815    | Draper, S.          | --             | 950.0                            | --                        | --                               | --              | --             | --  | BrW          |
| HOM 24              | 430736   | 715814    | Blanchard, S.       | --             | 950.0                            | --                        | --                               | --              | --             | --  | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number   | Water Level Depth (feet) (mm-odd-yy) | Date (mm-odd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min)/ft] | Pumping period (hours) | Remarks                         |
|---------------------|--------------------------------------|------------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------------------------------|
| HGM 94              | --                                   | ----             | H                    | 4.0                     | --              | --                               | 1.0                    |                                 |
| HGM 95              | 60.0                                 | 08-22-89         | H                    | 2.0                     | --              | --                               | .5                     |                                 |
| HGM 96              | 30.0                                 | 05-24-90         | H                    | 20.0                    | --              | --                               | 1.0                    |                                 |
| Hillsborough County |                                      |                  |                      |                         |                 |                                  |                        |                                 |
| Hancock--Continued  |                                      |                  |                      |                         |                 |                                  |                        |                                 |
| HOB 1               | --                                   | ----             | T                    | --                      | --              | --                               | --                     | Bridge 171/064 boring 19        |
| HOB 2               | --                                   | ----             | T                    | --                      | --              | --                               | --                     | Bridge 171/064 boring 17        |
| HOB 3               | --                                   | ----             | T                    | --                      | --              | --                               | --                     | Bridge 111/042 boring 7         |
| HOB 4               | --                                   | ----             | T                    | --                      | --              | --                               | --                     | USGS;2                          |
| HOB 5               | 2.0                                  | 09-22-88         | T                    | --                      | --              | --                               | --                     | USGS;2                          |
| Hillsborough        |                                      |                  |                      |                         |                 |                                  |                        |                                 |
| HOM 4               | --                                   | ----             | H                    | 6.0                     | --              | --                               | --                     | Bedrock                         |
| HOM 5               | 32.0                                 | 11-----60        | H                    | 6.0                     | --              | --                               | --                     | Bedrock                         |
| HOM 6               | --                                   | ----             | H                    | 1.5                     | --              | --                               | --                     | Bedrock                         |
| HOM 8               | 15.0                                 | 12-19-55         | H                    | 11.5                    | --              | --                               | --                     | Bedrock                         |
| HOM 9               | 12.0                                 | 07-15-53         | H                    | --                      | --              | --                               | --                     | Bedrock                         |
| HOM 10              | 20.0                                 | 09-16-63         | H                    | 1.5                     | --              | --                               | --                     | Bedrock                         |
| HOM 11              | 10.0                                 | 12-06-54         | H                    | 4.0                     | --              | --                               | --                     | Bedrock                         |
| HOM 12              | --                                   | ----             | H                    | 15.0                    | --              | --                               | --                     | Bedrock                         |
| HOM 13              | 48.0                                 | ----54           | H                    | 7.0                     | --              | --                               | --                     | Bedrock                         |
| HOM 14              | --                                   | ----             | T                    | --                      | --              | --                               | --                     |                                 |
| HOM 15              | 10.0                                 | 10-25-79         | O                    | 50.0                    | 1.8             | 28.5                             | 2                      | Potential municipal supply well |
| HOM 16              | 5.1                                  | 05-22-79         | O                    | --                      | --              | --                               | --                     |                                 |
| HOM 17              | 5.5                                  | 05-31-79         | O                    | --                      | --              | --                               | --                     |                                 |
| HOM 18              | 6.1                                  | 06-01-79         | O                    | --                      | --              | --                               | --                     |                                 |
| HOM 19              | 18.0                                 | 06-05-79         | O                    | --                      | --              | --                               | --                     |                                 |
| HOM 20              | --                                   | 06-06-79         | O                    | 30.0                    | --              | --                               | --                     |                                 |
| HOM 21              | 6.2                                  | 06-07-79         | O                    | --                      | --              | --                               | --                     |                                 |
| HOM 22              | --                                   | ----             | H                    | 6.0                     | --              | --                               | --                     |                                 |
| HOM 23              | --                                   | ----             | H                    | 4.0                     | --              | --                               | --                     |                                 |
| HOM 24              | --                                   | ----             | H                    | 6.0                     | --              | --                               | --                     |                                 |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or (feet) spring |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|
| HOW 25            | 430737   | 715818    | Geggett, E.             | --             | 950.0                            | --                        | --                               | --              | --             | BrW   |
| HOW 26            | 430746   | 715829    | Kersey, C.              | --             | 940.0                            | --                        | --                               | --              | --             | BrW   |
| HOW 27            | 430737   | 715821    | Kijewski, M.            | --             | 940.0                            | --                        | --                               | --              | --             | BrW   |
| HOW 30            | 430651   | 715545    | Dean, H.                | --             | 660.0                            | --                        | --                               | --              | --             | BrW   |
| HOW 31            | 430726   | 715746    | Davison, C.             | --             | 900.0                            | --                        | --                               | --              | --             | BrW   |
| HOW 32            | 430724   | 715743    | Robbins, J.             | --             | 880.0                            | --                        | --                               | --              | --             | BrW   |
| HOW 33            | 430733   | 715538    | Fisher                  | 1984           | 860.0                            | --                        | 172.0                            | --              | X              | BrW   |
| HOW 34            | 430843   | 715735    | Loss                    | 1984           | 800.0                            | --                        | 20.0                             | --              | X              | BrW   |
| HOW 35            | 430838   | 715724    | Miller                  | 1984           | 780.0                            | --                        | 20.0                             | --              | X              | BrW   |
| HOW 36            | 430619   | 715710    | Sargent                 | 1984           | 780.0                            | --                        | 328.0                            | --              | --             | BrW   |
| HOW 37            | 430943   | 715341    | Emerald Lake Water Dist | 1985           | 760.0                            | --                        | 59.0                             | --              | X              | BrW   |
| HOW 38            | 430659   | 715639    | Borovice                | 1985           | 720.0                            | --                        | 79.0                             | --              | --             | BrW   |
| HOW 39            | 430655   | 715625    | Appleyard               | 1985           | 700.0                            | --                        | 74.0                             | --              | --             | BrW   |
| HOW 40            | 430716   | 715525    | Stonne                  | 1985           | 810.0                            | --                        | 86.0                             | --              | X              | BrW   |
| HOW 41            | 430943   | 715343    | Emerald Lk Vil Wtr Dist | 1985           | 780.0                            | --                        | 48.0                             | --              | X              | BrW   |
| HOW 42            | 431015   | 715818    | Wiczar                  | 1985           | 940.0                            | --                        | 20.0                             | --              | X              | BrW   |
| HOW 43            | 430742   | 715306    | Valley Transport Inc.   | 1985           | 560.0                            | --                        | 219.0                            | --              | X              | BrW   |
| HOW 45            | 430630   | 715621    | Worth                   | 1985           | 720.0                            | --                        | 19.0                             | --              | X              | BrW   |
| HOW 46            | 430812   | 715813    | Sawyer                  | 1985           | 900.0                            | --                        | 57.0                             | --              | X              | BrW   |
| HOW 47            | 430806   | 715933    | Murdough                | 1985           | 1160.0                           | --                        | 84.0                             | --              | X              | BrW   |
| HOW 48            | 430629   | 715647    | Knapton                 | 1983           | 780.0                            | --                        | 159.0                            | --              | --             | BrW   |
| HOW 49            | 430630   | 715646    | Knapton Sr.             | 1986           | 770.0                            | --                        | 312.0                            | --              | --             | BrW   |
| HOW 50            | 430559   | 715624    | Knapton Sr.             | 1986           | 840.0                            | --                        | 122.0                            | --              | X              | BrW   |
| HOW 51            | 430603   | 715624    | Knapton                 | 1986           | 840.0                            | --                        | 62.0                             | --              | X              | BrW   |
| HOW 52            | 430653   | 715356    | Brodsky                 | 1986           | 680.0                            | --                        | 59.0                             | --              | X              | BrW   |
| HOW 53            | 431024   | 715937    | Graham                  | 1986           | 840.0                            | --                        | 44.0                             | --              | X              | BrW   |
| HOW 55            | 430710   | 715512    | Colt Construction       | 1987           | 750.0                            | --                        | 128.0                            | --              | X              | BrW   |
| HOW 61            | 430735   | 715951    | Butler                  | 1986           | 1120.0                           | --                        | 10.5                             | --              | X              | BrW   |
| HOW 62            | 430934   | 715805    | Hoot Enterprise         | 1986           | 920.0                            | --                        | 94.0                             | --              | X              | BrW   |
| HOW 64            | 430855   | 715617    | Smith                   | 1987           | 1080.0                           | --                        | 43.0                             | --              | X              | BrW   |

Hillsborough County

Hillsborough--Continued

| Local site number | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Draw-down (feet) | Specific capacity [(gal/min)/(ft)] | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|----------------------|------------------------------|------------------|------------------------------------|------------------------|---------|
| HOW 25            | ----                        | H                    | 15.0                         | --               | --                                 | --                     |         |
| HOW 26            | ----                        | H                    | 3.0                          | --               | --                                 | --                     |         |
| HOW 27            | ----                        | H                    | 4.0                          | --               | --                                 | --                     |         |
| HOW 30            | ----                        | H                    | 10.0                         | --               | --                                 | --                     |         |
| HOW 31            | ----                        | H                    | 10.0                         | --               | --                                 | --                     |         |
| HOW 32            | ----                        | H                    | 9.0                          | --               | --                                 | --                     |         |
| HOW 33            | ----                        | H                    | 10.0                         | --               | --                                 | 1.0                    |         |
| HOW 34            | 08-24-84                    | H                    | 4.0                          | --               | --                                 | .5                     |         |
| HOW 35            | ----                        | H                    | 6.0                          | --               | --                                 | .8                     |         |
| HOW 36            | ----                        | H                    | 20.0                         | --               | --                                 | 3.0                    |         |
| HOW 37            | 17.0                        | P                    | 40.0                         | --               | --                                 | 1.0                    |         |
| HOW 38            | 05-10-85                    | P                    | 17.0                         | --               | --                                 | 1.0                    |         |
| HOW 39            | 03-25-85                    | H                    | 12.0                         | --               | --                                 | 2.0                    |         |
| HOW 40            | ----                        | H                    | 7.5                          | --               | --                                 | 1.5                    |         |
| HOW 41            | 06-20-85                    | H                    | 20.0                         | --               | --                                 | 1.0                    |         |
| HOW 42            | 06-17-85                    | P                    | 6.0                          | --               | --                                 | 1.0                    |         |
| HOW 43            | 08-23-85                    | --                   | 2.0                          | --               | --                                 | .5                     |         |
| HOW 45            | ----                        | H                    | 5.9                          | --               | --                                 | .5                     |         |
| HOW 46            | 09-12-85                    | H                    | 2.0                          | --               | --                                 | 1.0                    |         |
| HOW 47            | ----                        | H                    | 10.0                         | --               | --                                 | 1.0                    |         |
| HOW 48            | ----                        | H                    | 60.0                         | --               | --                                 | .3                     |         |
| HOW 49            | ----                        | H                    | 100.0                        | --               | --                                 | .5                     |         |
| HOW 50            | ----                        | H                    | 2.0                          | --               | --                                 | 2.0                    |         |
| HOW 51            | ----                        | H                    | 4.0                          | --               | --                                 | --                     |         |
| HOW 52            | 05-30-86                    | H                    | 1.0                          | --               | --                                 | .8                     |         |
| HOW 53            | 07-14-86                    | H                    | 4.0                          | --               | --                                 | 1.0                    |         |
| HOW 55            | ----                        | H                    | 4.0                          | --               | --                                 | 0.3                    |         |
| HOW 61            | 08-19-86                    | H                    | 12.0                         | --               | --                                 | .3                     |         |
| HOW 62            | 11-08-86                    | H                    | 5.0                          | --               | --                                 | .3                     |         |
| HOW 64            | ----                        | H                    | 8.0                          | --               | --                                 | 1.0                    |         |

Hillsborough County

Hillsborough--Continued

| Local site number | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Draw-down (feet) | Specific capacity [(gal/min)/(ft)] | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|----------------------|------------------------------|------------------|------------------------------------|------------------------|---------|
| HOW 25            | ----                        | H                    | 15.0                         | --               | --                                 | --                     |         |
| HOW 26            | ----                        | H                    | 3.0                          | --               | --                                 | --                     |         |
| HOW 27            | ----                        | H                    | 4.0                          | --               | --                                 | --                     |         |
| HOW 30            | ----                        | H                    | 10.0                         | --               | --                                 | --                     |         |
| HOW 31            | ----                        | H                    | 10.0                         | --               | --                                 | --                     |         |
| HOW 32            | ----                        | H                    | 9.0                          | --               | --                                 | --                     |         |
| HOW 33            | ----                        | H                    | 10.0                         | --               | --                                 | 1.0                    |         |
| HOW 34            | 08-24-84                    | H                    | 4.0                          | --               | --                                 | .5                     |         |
| HOW 35            | ----                        | H                    | 6.0                          | --               | --                                 | .8                     |         |
| HOW 36            | ----                        | H                    | 20.0                         | --               | --                                 | 3.0                    |         |
| HOW 37            | 17.0                        | P                    | 40.0                         | --               | --                                 | 1.0                    |         |
| HOW 38            | 05-10-85                    | P                    | 17.0                         | --               | --                                 | 1.0                    |         |
| HOW 39            | 03-25-85                    | H                    | 12.0                         | --               | --                                 | 2.0                    |         |
| HOW 40            | ----                        | H                    | 7.5                          | --               | --                                 | 1.5                    |         |
| HOW 41            | 06-20-85                    | H                    | 20.0                         | --               | --                                 | 1.0                    |         |
| HOW 42            | 06-17-85                    | P                    | 6.0                          | --               | --                                 | 1.0                    |         |
| HOW 43            | 08-23-85                    | --                   | 2.0                          | --               | --                                 | .5                     |         |
| HOW 45            | ----                        | H                    | 5.9                          | --               | --                                 | .5                     |         |
| HOW 46            | 09-12-85                    | H                    | 2.0                          | --               | --                                 | 1.0                    |         |
| HOW 47            | ----                        | H                    | 10.0                         | --               | --                                 | 1.0                    |         |
| HOW 48            | ----                        | H                    | 60.0                         | --               | --                                 | .3                     |         |
| HOW 49            | ----                        | H                    | 100.0                        | --               | --                                 | .5                     |         |
| HOW 50            | ----                        | H                    | 2.0                          | --               | --                                 | 2.0                    |         |
| HOW 51            | ----                        | H                    | 4.0                          | --               | --                                 | --                     |         |
| HOW 52            | 05-30-86                    | H                    | 1.0                          | --               | --                                 | .8                     |         |
| HOW 53            | 07-14-86                    | H                    | 4.0                          | --               | --                                 | 1.0                    |         |
| HOW 55            | ----                        | H                    | 4.0                          | --               | --                                 | 0.3                    |         |
| HOW 61            | 08-19-86                    | H                    | 12.0                         | --               | --                                 | .3                     |         |
| HOW 62            | 11-08-86                    | H                    | 5.0                          | --               | --                                 | .3                     |         |
| HOW 64            | ----                        | H                    | 8.0                          | --               | --                                 | 1.0                    |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open section or finish section (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|
| HOW 65            | 431045   | 715456    | Levesque              | 1987           | 980.0                            | --                        | 17.0                             | --   | BrW          |
| HOW 66            | 430559   | 715619    | Heming                | 1987           | 850.0                            | --                        | 61.0                             | --   | BrW          |
| HOW 67            | 430833   | 715254    | Sylvia                | 1987           | 620.0                            | --                        | 320.0                            | --   | BrW          |
| HOW 68            | 430639   | 715645    | McAlpine              | 1987           | 740.0                            | --                        | 281.0                            | --   | BrW          |
| HOW 71            | 430826   | 715325    | Thayer                | 1987           | 640.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 73            | 430658   | 715635    | Clemens               | 1985           | 700.0                            | --                        | 329.0                            | --   | BrW          |
| HOW 74            | 430647   | 715642    | Thomas                | 1985           | 720.0                            | --                        | 65.0                             | --   | BrW          |
| HOW 75            | 430836   | 715731    | Goode                 | 1986           | 800.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 76            | 430824   | 715529    | Pamarello             | 1987           | 860.0                            | --                        | 350.0                            | --   | BrW          |
| HOW 77            | 430828   | 715330    | Henderson             | 1987           | 640.0                            | --                        | 69.0                             | --   | BrW          |
| HOW 78            | 430718   | 715359    | Daniels               | 1988           | 660.0                            | --                        | 121.0                            | --   | BrW          |
| HOW 79            | 430654   | 715548    | D & S Carpentry       | 1988           | 660.0                            | --                        | 112.0                            | --   | BrW          |
| HOW 80            | 430600   | 715620    | Knapton               | 1988           | 850.0                            | --                        | 79.0                             | --   | BrW          |
| HOW 86            | 430720   | 715516    | Bennett Builders      | 1988           | 800.0                            | --                        | 143.0                            | --   | BrW          |
| HOW 87            | 430718   | 715514    | Dick                  | 1988           | 770.0                            | --                        | 160.0                            | --   | BrW          |
| HOW 88            | 430640   | 715710    | Hill                  | 1988           | 780.0                            | --                        | 87.0                             | --   | BrW          |
| HOW 89            | 430756   | 715354    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 42.0                             | --   | BrW          |
| HOW 90            | 430757   | 715351    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 50.0                             | --   | BrW          |
| HOW 91            | 430655   | 715549    | Green & L. Gillett    | 1988           | 660.0                            | --                        | 192.0                            | --   | BrW          |
| HOW 93            | 430837   | 715253    | Bottomly              | 1988           | 620.0                            | --                        | 279.0                            | --   | BrW          |
| HOW 94            | 430904   | 715700    | Gibbons Brothers      | 1988           | 1000.0                           | --                        | 14.0                             | --   | BrW          |
| HOW 95            | 430825   | 715307    | Frink                 | 1988           | 620.0                            | --                        | 359.0                            | --   | BrW          |
| HOW 96            | 430908   | 715746    | Dow                   | 1988           | 740.0                            | --                        | 62.0                             | --   | BrW          |
| HOW 97            | 430930   | 715513    | Lannon                | 1988           | 1000.0                           | --                        | 54.0                             | --   | BrW          |
| HOW 98            | 430715   | 715539    | Smith                 | 1988           | 780.0                            | --                        | 109.0                            | --   | BrW          |
| HOW 99            | 430756   | 715906    | Davy                  | 1988           | 1040.0                           | --                        | 62.0                             | --   | BrW          |
| HOW 100           | 430618   | 715628    | Smith                 | 1988           | 810.0                            | --                        | 22.0                             | --   | Dug          |
| HOW 102           | 430716   | 715513    | Bennett Builders      | 1988           | 760.0                            | --                        | 173.0                            | --   | BrW          |
| HOW 103           | 431047   | 715458    | Davis                 | 1988           | 960.0                            | --                        | 39.0                             | --   | BrW          |
| HOW 104           | 430836   | 715602    | Webb                  | 1988           | 1020.0                           | --                        | 119.0                            | --   | BrW          |

Hillsborough County

Hillsborough--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open section or finish section (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|
| HOW 65            | 431045   | 715456    | Levesque              | 1987           | 980.0                            | --                        | 17.0                             | --   | BrW          |
| HOW 66            | 430559   | 715619    | Heming                | 1987           | 850.0                            | --                        | 61.0                             | --   | BrW          |
| HOW 67            | 430833   | 715254    | Sylvia                | 1987           | 620.0                            | --                        | 320.0                            | --   | BrW          |
| HOW 68            | 430639   | 715645    | McAlpine              | 1987           | 740.0                            | --                        | 281.0                            | --   | BrW          |
| HOW 71            | 430826   | 715325    | Thayer                | 1987           | 640.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 73            | 430658   | 715635    | Clemens               | 1985           | 700.0                            | --                        | 329.0                            | --   | BrW          |
| HOW 74            | 430647   | 715642    | Thomas                | 1985           | 720.0                            | --                        | 65.0                             | --   | BrW          |
| HOW 75            | 430836   | 715731    | Goode                 | 1986           | 800.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 76            | 430824   | 715529    | Pamarello             | 1987           | 860.0                            | --                        | 350.0                            | --   | BrW          |
| HOW 77            | 430828   | 715330    | Henderson             | 1987           | 640.0                            | --                        | 69.0                             | --   | BrW          |
| HOW 78            | 430718   | 715359    | Daniels               | 1988           | 660.0                            | --                        | 121.0                            | --   | BrW          |
| HOW 79            | 430654   | 715548    | D & S Carpentry       | 1988           | 660.0                            | --                        | 112.0                            | --   | BrW          |
| HOW 80            | 430600   | 715620    | Knapton               | 1988           | 850.0                            | --                        | 79.0                             | --   | BrW          |
| HOW 86            | 430720   | 715516    | Bennett Builders      | 1988           | 800.0                            | --                        | 143.0                            | --   | BrW          |
| HOW 87            | 430718   | 715514    | Dick                  | 1988           | 770.0                            | --                        | 160.0                            | --   | BrW          |
| HOW 88            | 430640   | 715710    | Hill                  | 1988           | 780.0                            | --                        | 87.0                             | --   | BrW          |
| HOW 89            | 430756   | 715354    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 42.0                             | --   | BrW          |
| HOW 90            | 430757   | 715351    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 50.0                             | --   | BrW          |
| HOW 91            | 430655   | 715549    | Green & L. Gillett    | 1988           | 660.0                            | --                        | 192.0                            | --   | BrW          |
| HOW 93            | 430837   | 715253    | Bottomly              | 1988           | 620.0                            | --                        | 279.0                            | --   | BrW          |
| HOW 94            | 430904   | 715700    | Gibbons Brothers      | 1988           | 1000.0                           | --                        | 14.0                             | --   | BrW          |
| HOW 95            | 430825   | 715307    | Frink                 | 1988           | 620.0                            | --                        | 359.0                            | --   | BrW          |
| HOW 96            | 430908   | 715746    | Dow                   | 1988           | 740.0                            | --                        | 62.0                             | --   | BrW          |
| HOW 97            | 430930   | 715513    | Lannon                | 1988           | 1000.0                           | --                        | 54.0                             | --   | BrW          |
| HOW 98            | 430715   | 715539    | Smith                 | 1988           | 780.0                            | --                        | 109.0                            | --   | BrW          |
| HOW 99            | 430756   | 715906    | Davy                  | 1988           | 1040.0                           | --                        | 62.0                             | --   | BrW          |
| HOW 100           | 430618   | 715628    | Smith                 | 1988           | 810.0                            | --                        | 22.0                             | --   | Dug          |
| HOW 102           | 430716   | 715513    | Bennett Builders      | 1988           | 760.0                            | --                        | 173.0                            | --   | BrW          |
| HOW 103           | 431047   | 715458    | Davis                 | 1988           | 960.0                            | --                        | 39.0                             | --   | BrW          |
| HOW 104           | 430836   | 715602    | Webb                  | 1988           | 1020.0                           | --                        | 119.0                            | --   | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open section or finish section (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|
| HOW 65            | 431045   | 715456    | Levesque              | 1987           | 980.0                            | --                        | 17.0                             | --   | BrW          |
| HOW 66            | 430559   | 715619    | Heming                | 1987           | 850.0                            | --                        | 61.0                             | --   | BrW          |
| HOW 67            | 430833   | 715254    | Sylvia                | 1987           | 620.0                            | --                        | 320.0                            | --   | BrW          |
| HOW 68            | 430639   | 715645    | McAlpine              | 1987           | 740.0                            | --                        | 281.0                            | --   | BrW          |
| HOW 71            | 430826   | 715325    | Thayer                | 1987           | 640.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 73            | 430658   | 715635    | Clemens               | 1985           | 700.0                            | --                        | 329.0                            | --   | BrW          |
| HOW 74            | 430647   | 715642    | Thomas                | 1985           | 720.0                            | --                        | 65.0                             | --   | BrW          |
| HOW 75            | 430836   | 715731    | Goode                 | 1986           | 800.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 76            | 430824   | 715529    | Pamarello             | 1987           | 860.0                            | --                        | 350.0                            | --   | BrW          |
| HOW 77            | 430828   | 715330    | Henderson             | 1987           | 640.0                            | --                        | 69.0                             | --   | BrW          |
| HOW 78            | 430718   | 715359    | Daniels               | 1988           | 660.0                            | --                        | 121.0                            | --   | BrW          |
| HOW 79            | 430654   | 715548    | D & S Carpentry       | 1988           | 660.0                            | --                        | 112.0                            | --   | BrW          |
| HOW 80            | 430600   | 715620    | Knapton               | 1988           | 850.0                            | --                        | 79.0                             | --   | BrW          |
| HOW 86            | 430720   | 715516    | Bennett Builders      | 1988           | 800.0                            | --                        | 143.0                            | --   | BrW          |
| HOW 87            | 430718   | 715514    | Dick                  | 1988           | 770.0                            | --                        | 160.0                            | --   | BrW          |
| HOW 88            | 430640   | 715710    | Hill                  | 1988           | 780.0                            | --                        | 87.0                             | --   | BrW          |
| HOW 89            | 430756   | 715354    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 42.0                             | --   | BrW          |
| HOW 90            | 430757   | 715351    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 50.0                             | --   | BrW          |
| HOW 91            | 430655   | 715549    | Green & L. Gillett    | 1988           | 660.0                            | --                        | 192.0                            | --   | BrW          |
| HOW 93            | 430837   | 715253    | Bottomly              | 1988           | 620.0                            | --                        | 279.0                            | --   | BrW          |
| HOW 94            | 430904   | 715700    | Gibbons Brothers      | 1988           | 1000.0                           | --                        | 14.0                             | --   | BrW          |
| HOW 95            | 430825   | 715307    | Frink                 | 1988           | 620.0                            | --                        | 359.0                            | --   | BrW          |
| HOW 96            | 430908   | 715746    | Dow                   | 1988           | 740.0                            | --                        | 62.0                             | --   | BrW          |
| HOW 97            | 430930   | 715513    | Lannon                | 1988           | 1000.0                           | --                        | 54.0                             | --   | BrW          |
| HOW 98            | 430715   | 715539    | Smith                 | 1988           | 780.0                            | --                        | 109.0                            | --   | BrW          |
| HOW 99            | 430756   | 715906    | Davy                  | 1988           | 1040.0                           | --                        | 62.0                             | --   | BrW          |
| HOW 100           | 430618   | 715628    | Smith                 | 1988           | 810.0                            | --                        | 22.0                             | --   | Dug          |
| HOW 102           | 430716   | 715513    | Bennett Builders      | 1988           | 760.0                            | --                        | 173.0                            | --   | BrW          |
| HOW 103           | 431047   | 715458    | Davis                 | 1988           | 960.0                            | --                        | 39.0                             | --   | BrW          |
| HOW 104           | 430836   | 715602    | Webb                  | 1988           | 1020.0                           | --                        | 119.0                            | --   | BrW          |

Hillsborough County

Hillsborough--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open section or finish section (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|
| HOW 65            | 431045   | 715456    | Levesque              | 1987           | 980.0                            | --                        | 17.0                             | --   | BrW          |
| HOW 66            | 430559   | 715619    | Heming                | 1987           | 850.0                            | --                        | 61.0                             | --   | BrW          |
| HOW 67            | 430833   | 715254    | Sylvia                | 1987           | 620.0                            | --                        | 320.0                            | --   | BrW          |
| HOW 68            | 430639   | 715645    | McAlpine              | 1987           | 740.0                            | --                        | 281.0                            | --   | BrW          |
| HOW 71            | 430826   | 715325    | Thayer                | 1987           | 640.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 73            | 430658   | 715635    | Clemens               | 1985           | 700.0                            | --                        | 329.0                            | --   | BrW          |
| HOW 74            | 430647   | 715642    | Thomas                | 1985           | 720.0                            | --                        | 65.0                             | --   | BrW          |
| HOW 75            | 430836   | 715731    | Goode                 | 1986           | 800.0                            | --                        | 35.0                             | --   | BrW          |
| HOW 76            | 430824   | 715529    | Pamarello             | 1987           | 860.0                            | --                        | 350.0                            | --   | BrW          |
| HOW 77            | 430828   | 715330    | Henderson             | 1987           | 640.0                            | --                        | 69.0                             | --   | BrW          |
| HOW 78            | 430718   | 715359    | Daniels               | 1988           | 660.0                            | --                        | 121.0                            | --   | BrW          |
| HOW 79            | 430654   | 715548    | D & S Carpentry       | 1988           | 660.0                            | --                        | 112.0                            | --   | BrW          |
| HOW 80            | 430600   | 715620    | Knapton               | 1988           | 850.0                            | --                        | 79.0                             | --   | BrW          |
| HOW 86            | 430720   | 715516    | Bennett Builders      | 1988           | 800.0                            | --                        | 143.0                            | --   | BrW          |
| HOW 87            | 430718   | 715514    | Dick                  | 1988           | 770.0                            | --                        | 160.0                            | --   | BrW          |
| HOW 88            | 430640   | 715710    | Hill                  | 1988           | 780.0                            | --                        | 87.0                             | --   | BrW          |
| HOW 89            | 430756   | 715354    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 42.0                             | --   | BrW          |
| HOW 90            | 430757   | 715351    | Colonial Heights Inc. | 1988           | 720.0                            | --                        | 50.0                             | --   | BrW          |
| HOW 91            | 430655   | 715549    | Green & L. Gillett    | 1988           | 660.0                            | --                        | 192.0                            | --   | BrW          |
| HOW 93            | 430837   | 715253    | Bottomly              | 1988           | 620.0                            | --                        | 279.0                            | --   | BrW          |
| HOW 94            | 430904   | 715700    | Gibbons Brothers      | 1988           | 1000.0                           | --                        | 14.0                             | --   | BrW          |
| HOW 95            | 430825   | 715307    | Frink                 | 1988           | 620.0                            | --                        | 359.0                            | --   | BrW          |
| HOW 96            | 430908   | 715746    | Dow                   | 1988           | 740.0                            | --                        | 62.0                             | --   | BrW          |
| HOW 97            | 430930   | 715513    | Lannon                | 1988           | 1000.0                           | --                        | 54.0                             | --   | BrW          |
| HOW 98            | 430715   | 715539    | Smith                 | 1988           | 780.0                            | --                        | 109.0                            | --   | BrW          |
| HOW 99            | 430756   | 715906    | Davy                  | 1988           | 1040.0                           | --                        | 62.0                             | --   | BrW          |
| HOW 100           | 430618   | 715628    | Smith                 | 1988           | 810.0                            | --                        | 22.0                             | --   | Dug          |
| HOW 102           | 430716   | 715513    | Bennett Builders      | 1988           | 760.0                            | --                        | 173.0                            | --   | BrW          |
| HOW 103           | 431047   | 715458    | Davis                 | 1988           | 960.0                            | --                        | 39.0                             | --   | BrW          |
| HOW 104           | 430836   | 715602    | Webb                  | 1988           | 1020.0                           | --                        | 119.0                            | --   | BrW          |



Appendix A.--Description of wells and borings--Continued

| Local site number       | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or (feet) spring | Type of well | Remarks |
|-------------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|--------------|---------|
| Hillsborough County     |          |           |                       |                |                                  |                           |                                  |                 |                |   |              |         |
| Hillsborough--Continued |          |           |                       |                |                                  |                           |                                  |                 |                |   |              |         |
| 107                     | 430749   | 715344    | Colonial Heights      | 1988           | 700.0                            | --                        | 180.0                            | --              | X              | --  | BrW          |         |
| 108                     | 430652   | 715601    | Goodman               | 1988           | 700.0                            | --                        | 240.0                            | --              | X              | --  | BrW          |         |
| 110                     | 430924   | 720009    | Byk                   | 1988           | 1180.0                           | --                        | 62.0                             | --              | X              | --  | BrW          |         |
| 111                     | 430838   | 715822    | Brystrek              | 1988           | 890.0                            | --                        | --                               | --              | X              | --  | BrW          |         |
| 112                     | 430845   | 715606    | Miller                | 1988           | 1060.0                           | --                        | 21.0                             | --              | X              | --  | BrW          |         |
| 114                     | 430750   | 715349    | Colonial Heights      | 1988           | 700.0                            | --                        | 99.0                             | --              | --             | --  | BrW          |         |
| 115                     | 430943   | 715338    | Emerald Lake Vil Dist | 1988           | 720.0                            | --                        | 85.0                             | --              | X              | --  | BrW          |         |
| 116                     | 430940   | 715346    | Keene                 | 1988           | 800.0                            | --                        | 18.0                             | --              | X              | --  | BrW          |         |
| 117                     | 430626   | 715616    | Baker                 | 1988           | 740.0                            | --                        | 83.0                             | --              | X              | --  | BrW          |         |
| 118                     | 430753   | 715421    | Uhler                 | 1988           | 720.0                            | --                        | 125.0                            | --              | X              | --  | BrW          |         |
| 119                     | 430742   | 720010    | Washington Builders   | 1987           | 1040.0                           | --                        | 49.5                             | --              | X              | --  | BrW          |         |
| 121                     | 430758   | 715847    | Stocker               | 1986           | 950.0                            | --                        | 87.0                             | --              | X              | --  | BrW          |         |
| 122                     | 430730   | 715807    | Belivesu              | 1989           | 940.0                            | --                        | 113.0                            | --              | X              | --  | BrW          |         |
| 123                     | 430628   | 715729    | Appler                | 1989           | 820.0                            | --                        | 209.0                            | --              | X              | --  | BrW          |         |
| New Ipswich             |          |           |                       |                |                                  |                           |                                  |                 |                |   |              |         |
| 1                       | 424642   | 715532    | --                    | 1991           | 1170.0                           | --                        | --                               | --              | --             | --  | TH           |         |
| 2                       | 424623   | 715533    | --                    | 1991           | 1250.0                           | --                        | --                               | --              | --             | --  | TH           |         |
| 3                       | 424623   | 715536    | --                    | 1991           | 1240.0                           | --                        | --                               | --              | --             | --  | TH           |         |
| 50                      | 424634   | 715507    | --                    | 1985           | 1260.0                           | --                        | 69.0                             | --              | X              | --  | BrW          |         |
| 76                      | 424620   | 715523    | --                    | 1986           | 1260.0                           | --                        | 32.0                             | --              | X              | --  | BrW          |         |
| 77                      | 424631   | 715506    | --                    | 1986           | 1260.0                           | --                        | 84.0                             | --              | X              | --  | BrW          |         |
| 87                      | 424650   | 715428    | --                    | 1986           | 1260.0                           | --                        | 39.0                             | --              | X              | --  | BrW          |         |
| 89                      | 424644   | 715458    | --                    | 1986           | 1200.0                           | --                        | 29.0                             | --              | X              | --  | BrW          |         |
| 92                      | 424715   | 715431    | --                    | 1986           | 1230.0                           | --                        | 12.0                             | --              | X              | --  | BrW          |         |
| 93                      | 424714   | 715430    | Irwin                 | 1986           | 1230.0                           | --                        | 20.0                             | --              | X              | --  | BrW          |         |
| 101                     | 424647   | 715440    | --                    | 1987           | 1240.0                           | --                        | 29.0                             | --              | X              | --  | BrW          |         |
| 107                     | 424629   | 715615    | Chandler              | 1986           | 1250.0                           | --                        | 80.0                             | --              | X              | --  | BrW          |         |
| 109                     | 424628   | 715613    | San-Ken Homes         | 1986           | 1240.0                           | --                        | 59.1                             | --              | X              | --  | BrW          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number       | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min)/ft] | Pumping period (hours) | Remarks |
|-------------------------|-----------------------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|---------|
| Hillsborough County     |                             |                      |                              |                 |                                  |                        |         |
| Hillsborough--Continued |                             |                      |                              |                 |                                  |                        |         |
| 107                     | --                          | H                    | 4.0                          | --              | --                               | .5                     |         |
| 108                     | --                          | C                    | 3.5                          | --              | --                               | .5                     |         |
| 110                     | --                          | H                    | 15.0                         | --              | --                               | 1.0                    |         |
| 111                     | --                          | H                    | 10.0                         | --              | --                               | 1.0                    |         |
| 112                     | --                          | H                    | 8.0                          | --              | --                               | 1.0                    |         |
| 114                     | 10-05-88                    | H                    | 60.0                         | --              | --                               | 2.0                    |         |
| 115                     | --                          | P                    | 40.0                         | --              | --                               | 1.0                    |         |
| 116                     | --                          | H                    | 5.5                          | --              | --                               | .8                     |         |
| 117                     | --                          | H                    | 5.0                          | --              | --                               | .8                     |         |
| 118                     | 12-15-88                    | H                    | 15.0                         | --              | --                               | .8                     |         |
| 119                     | 09-28-87                    | H                    | 4.5                          | --              | --                               | .5                     |         |
| 121                     | 10-01-86                    | H                    | 6.0                          | --              | --                               | .3                     |         |
| 122                     | --                          | H                    | 12.0                         | --              | --                               | .3                     |         |
| 123                     | 07-13-89                    | H                    | 2.5                          | --              | --                               | --                     |         |
| New Ipswich             |                             |                      |                              |                 |                                  |                        |         |
| 1                       | --                          | T                    | --                           | --              | --                               | --                     | USGS:Z  |
| 2                       | --                          | T                    | --                           | --              | --                               | --                     | USGS:Z  |
| 3                       | --                          | T                    | --                           | --              | --                               | --                     | USGS:Z  |
| 50                      | 12-27-85                    | H                    | 15.0                         | --              | --                               | .5                     |         |
| 76                      | 11-25-86                    | H                    | 6.0                          | --              | --                               | 2.0                    |         |
| 77                      | 06-13-86                    | H                    | 4.0                          | --              | --                               | 1.0                    |         |
| 87                      | --                          | H                    | 1.8                          | --              | --                               | 1.5                    |         |
| 89                      | 04-02-86                    | H                    | 30.0                         | --              | --                               | .5                     |         |
| 92                      | 12-24-86                    | H                    | 1.5                          | --              | --                               | 4.0                    |         |
| 93                      | --                          | H                    | 50.0                         | --              | --                               | 1.0                    |         |
| 101                     | --                          | H                    | 2.3                          | --              | --                               | 2.0                    |         |
| 107                     | --                          | H                    | 5.4                          | --              | --                               | 4.0                    |         |
| 109                     | --                          | H                    | 3.0                          | --              | --                               | 4.0                    |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|
| NJW 110           | 424711   | 715517    | --            | 1987           | 1200.0                           | --                        | 119.0                            | --              | X              | --   |
| NJW 116           | 424630   | 715624    | Miskala       | 1987           | 1240.0                           | --                        | 119.0                            | --              | X              | BrW  |
| NJW 117           | 424632   | 715627    | LeValley      | 1987           | 1240.0                           | --                        | 130.0                            | --              | X              | BrW  |
| NJW 120           | 424642   | 715506    | --            | 1987           | 1200.0                           | --                        | 43.0                             | --              | X              | BrW  |
| NJW 121           | 424645   | 715433    | --            | 1987           | 1320.0                           | --                        | 20.0                             | --              | X              | BrW  |
| NJW 129           | 424624   | 715530    | --            | 1987           | 1260.0                           | --                        | 39.0                             | --              | X              | BrW  |
| NJW 144           | 424626   | 715620    | --            | 1988           | 1220.0                           | --                        | 105.0                            | --              | X              | BrW  |
| NJW 145           | 424631   | 715618    | --            | 1988           | 1280.0                           | --                        | 94.0                             | --              | X              | BrW  |

Hillsborough County

New Ipswich--Continued

|        |        |        |                          |      |        |    |    |    |    |     |
|--------|--------|--------|--------------------------|------|--------|----|----|----|----|-----|
| PCA 1  | 425821 | 715641 | --                       | 1991 | 750.0  | -- | -- | -- | -- | Bor |
| PCA 2  | 425516 | 715610 | --                       | 1991 | 705.0  | -- | -- | -- | -- | Bor |
| PCB 1  | 425639 | 715339 | NH PUB WKS HHY           | --   | 800.0  | -- | -- | -- | -- | TH  |
| PCB 2  | 425632 | 715517 | NH PUB WKS HHY           | --   | 700.0  | -- | -- | -- | -- | TH  |
| PCB 4  | 425239 | 715656 | NH PUB WKS HHY           | --   | 720.0  | -- | -- | -- | -- | TH  |
| PCB 5  | 425209 | 715700 | NH PUB WKS HHY           | --   | 710.0  | -- | -- | -- | -- | TH  |
| PCB 6  | 425014 | 715852 | NH PUB WKS HHY           | --   | 820.0  | -- | -- | -- | -- | TH  |
| PCB 7  | 425112 | 715755 | --                       | --   | 770.0  | -- | -- | -- | -- | TH  |
| PCB 8  | 425149 | 715724 | Town of Peterborough     | --   | 720.0  | -- | -- | -- | -- | TH  |
| PCB 9  | 425159 | 715725 | Town of Peterborough     | --   | 800.0  | -- | -- | -- | -- | TH  |
| PCB 10 | 425031 | 715553 | Town of Peterborough     | --   | 1020.0 | -- | -- | -- | -- | TH  |
| PCB 11 | 425032 | 715543 | Town of Peterborough     | --   | 1020.0 | -- | -- | -- | -- | TH  |
| PCB 12 | 425252 | 715743 | Town of Peterborough     | --   | 780.0  | -- | -- | -- | -- | TH  |
| PCB 13 | 425300 | 715759 | Town of Peterborough     | --   | 780.0  | -- | -- | -- | -- | TH  |
| PCB 14 | 425332 | 715911 | Army Corps MacDowell Dam | --   | 900.0  | -- | -- | -- | -- | TH  |
| PCB 15 | 425341 | 715916 | Army corps MacDowell Dam | --   | 920.0  | -- | -- | -- | -- | TH  |
| PCB 16 | 425338 | 715907 | Army Corps MacDowell Dam | --   | 960.0  | -- | -- | -- | -- | TH  |

Peterborough

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|---------|
| NJW 110           | 80.0                     | 10-27-87        | P                    | 7.0                     | --              | --                             | .5                     |         |
| NJW 116           | --                       | ----            | H                    | 1.5                     | --              | --                             | .5                     |         |
| NJW 117           | --                       | ----            | H                    | 6.0                     | --              | --                             | 4.0                    |         |
| NJW 120           | 20.0                     | 09-11-87        | H                    | 20.0                    | --              | --                             | .5                     |         |
| NJW 121           | 40.0                     | 10-31-87        | H                    | 0.5                     | --              | --                             | 0.5                    |         |
| NJW 129           | --                       | ----            | H                    | 4.0                     | --              | --                             | .5                     |         |
| NJW 144           | --                       | ----            | H                    | 1.1                     | --              | --                             | 1.0                    |         |
| NJW 145           | --                       | ----            | H                    | 2.8                     | --              | --                             | 4.0                    |         |

Hillsborough County

New Ipswich--Continued

|        |      |          |   |    |    |    |    |                          |
|--------|------|----------|---|----|----|----|----|--------------------------|
| PCA 1  | 19.0 | 05-14-91 | T | -- | -- | -- | -- | USGS;2                   |
| PCA 2  | --   | ----     | T | -- | -- | -- | -- | USGS;2                   |
| PCB 1  | --   | ----     | T | -- | -- | -- | -- | Bridge 162/170 boring 3  |
| PCB 2  | --   | ----     | T | -- | -- | -- | -- | Bridge 127/133 boring 5  |
| PCB 4  | --   | ----     | T | -- | -- | -- | -- | Bridge 092/089 boring 2A |
| PCB 5  | --   | ----     | T | -- | -- | -- | -- | Bridge 087/077 boring 3  |
| PCB 6  | --   | ----     | T | -- | -- | -- | -- | Bridge 049/039 boring 7  |
| PCB 7  | 9.0  | 06-20-84 | T | -- | -- | -- | -- |                          |
| PCB 8  | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 9  | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 10 | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 11 | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 12 | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 13 | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 14 | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 15 | --   | ----     | T | -- | -- | -- | -- |                          |
| PCB 16 | --   | ----     | T | -- | -- | -- | -- |                          |

Peterborough

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user        | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section (feet) | Type of well |
|-------------------|----------|-----------|----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|--------------|
| PCB 17            | 425620   | 715403    | --                   | --             | 820.0                            | --                        | --                               | --              | --             | --  | TH           |
| PCB 18            | 425357   | 715621    | NH PUB WKS IMY       | --             | 700.0                            | --                        | --                               | --              | --             | --  | TH           |
| PCW 3             | 425048   | 715646    | Morrison, George     | 1959           | 1020.0                           | --                        | --                               | --              | --             | --  | BrW          |
| PCW 4             | 425448   | 715330    | Adams, Tracy         | 1957           | 710.0                            | --                        | 150.0                            | --              | --             | --  | BrW          |
| PCW 6             | 425341   | 715340    | Bell, Dorothy        | 1946           | 990.0                            | --                        | 30.0                             | --              | --             | --  | BrW          |
| PCW 8             | 425150   | 715601    | Casalis, Isabel      | 1958           | 940.0                            | --                        | --                               | --              | --             | --  | BrW          |
| PCW 10            | 425224   | 715741    | Chester, Davis       | 1961           | 790.0                            | --                        | 35.0                             | --              | --             | --  | BrW          |
| PCW 11            | 425351   | 715354    | Denniston, A.W.      | 1961           | 990.0                            | --                        | 18.0                             | --              | --             | --  | BrW          |
| PCW 12            | 425417   | 715906    | Durland, Clarence B. | 1957           | 1010.0                           | --                        | 113.0                            | --              | --             | --  | BrW          |
| PCW 13            | 425453   | 715902    | Eldridge, Arthur S.  | 1960           | 1010.0                           | --                        | 110.0                            | --              | --             | --  | BrW          |
| PCW 15            | 425340   | 715435    | Franklin, Henry      | 1950           | 1000.0                           | --                        | 150.0                            | --              | --             | --  | BrW          |
| PCW 16            | 425215   | 715852    | Hoffman, Robert      | 1956           | 1020.0                           | --                        | --                               | --              | --             | --  | BrW          |
| PCW 19            | 425335   | 715609    | McGreal              | 1941           | 750.0                            | --                        | 25.0                             | --              | --             | --  | BrW          |
| PCW 23            | 425408   | 715852    | Pierce               | 1959           | 1010.0                           | --                        | 120.0                            | --              | --             | --  | BrW          |
| PCW 25            | 425312   | 715331    | Poodiak              | 1958           | 1090.0                           | --                        | 14.0                             | --              | --             | --  | BrW          |
| PCW 27            | 425222   | 715436    | Raymond, Fairfield   | 1964           | 840.0                            | --                        | 248.0                            | --              | --             | --  | BrW          |
| PCW 28            | 425445   | 715329    | Russ, Percy          | 1964           | 950.0                            | --                        | 120.0                            | --              | --             | --  | BrW          |
| PCW 30            | 425407   | 715535    | Varnum, Arthur       | 1963           | 730.0                            | --                        | 110.0                            | --              | --             | --  | BrW          |
| PCW 32            | 425501   | 715505    | Whitney, Herbert     | 1956           | 730.0                            | --                        | 124.0                            | --              | --             | --  | BrW          |
| PCW 33            | 425042   | 715603    | Whitney, Wallace     | 1946           | 1080.0                           | --                        | --                               | --              | --             | --  | BrW          |
| PCW 34            | 425416   | 715852    | Wood, Carl           | --             | 1030.0                           | --                        | 132.0                            | --              | --             | --  | BrW          |
| PCW 36            | 425854   | 715754    | --                   | --             | 786.0                            | --                        | --                               | --              | --             | --  |              |
| PCW 38            | 425100   | 715746    | --                   | --             | 785.3                            | --                        | --                               | --              | --             | --  |              |
| PCW 40            | 425102   | 715753    | --                   | --             | 783.9                            | --                        | --                               | --              | --             | --  |              |
| PCW 42            | 425108   | 715754    | --                   | --             | 783.3                            | --                        | --                               | --              | --             | --  |              |
| PCW 44            | 425536   | 715621    | --                   | --             | 700.0                            | --                        | --                               | --              | 21.0           | --  |              |
| PCW 45            | 425537   | 715620    | --                   | --             | 700.0                            | --                        | --                               | --              | 22.0           | --  |              |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                  |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|--------------------------|
| PCB 17            | --                       | -----           | T                    | --                      | --              | --                               | --                     |                          |
| PCB 18            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 108/116 boring 10 |
| PCW 3             | 22.0                     | -----59         | H                    | 7.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 4             | 20.0                     | -----57         | H                    | 7.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 6             | --                       | -----           | H                    | 20.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 8             | 20.0                     | -----58         | H                    | 10.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 10            | 3.0                      | 11-----61       | H                    | 4.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 11            | 6.0                      | 10-----61       | H                    | 8.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 12            | 51.0                     | -----57         | H                    | 10.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 13            | 40.0                     | 02-----60       | H                    | 10.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 15            | 75.0                     | 01-10-50        | H                    | 6.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 16            | 30.0                     | -----56         | H                    | 20.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 19            | 12.0                     | -----41         | H                    | 5.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 23            | 45.0                     | 02-----59       | H                    | 9.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 25            | 17.0                     | 11-----58       | H                    | 4.5                     | --              | --                               | --                     | Bedrock                  |
| PCW 27            | 60.0                     | 02-----64       | H                    | 19.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 28            | 10.0                     | 03-----64       | H                    | 20.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 30            | 40.0                     | 11-----63       | H                    | 10.0                    | --              | --                               | --                     | Bedrock                  |
| PCW 32            | 3.0                      | 11-----56       | H                    | 6.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 33            | --                       | -----           | H                    | 9.0                     | --              | --                               | --                     | Bedrock                  |
| PCW 34            | 90.0                     | 10-----69       | H                    | 5.5                     | --              | --                               | --                     | Bedrock                  |
| PCW 36            | 4.6                      | 07-05-84        | O                    | --                      | --              | --                               | --                     |                          |
| PCW 38            | 8.0                      | 06-13-84        | O                    | --                      | --              | --                               | --                     |                          |
| PCW 40            | 5.6                      | 07-05-84        | O                    | --                      | --              | --                               | --                     |                          |
| PCW 42            | 4.0                      | 06-21-84        | O                    | --                      | --              | --                               | --                     |                          |
| PCW 44            | 6.0                      | 07-29-86        | O                    | --                      | --              | --                               | --                     |                          |
| PCW 45            | 5.0                      | 07-30-86        | O                    | --                      | --              | --                               | --                     |                          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user        | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) | Type of well or spring | Remarks |
|-------------------|----------|-----------|----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|------------------------|---------|
|                   |          |           |                      |                |                                  |                           |                                  |                 |                |   |                        |         |
| PCW 46            | 425539   | 715621    |                      | --             | 700.0                            | --                        | --                               | --              | --             | 22.0                                      |                        |         |
| PCW 47            | 425535   | 715626    |                      | --             | 700.0                            | --                        | --                               | --              | --             | 12.0                                      |                        |         |
| PCW 48            | 425543   | 715627    |                      | --             | 700.0                            | --                        | --                               | --              | --             | 17.0                                      |                        |         |
| PCW 49            | 425538   | 715629    |                      | --             | 700.0                            | --                        | --                               | --              | --             | 21.0                                      |                        |         |
| PCW 50            | 425158   | 715708    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 51            | 425159   | 715711    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 52            | 425326   | 715645    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 53            | 425335   | 715641    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 54            | 425350   | 715648    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 55            | 425348   | 715648    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 56            | 425342   | 715647    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 57            | 425344   | 715643    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 58            | 425429   | 715652    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 59            | 425431   | 715647    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 60            | 425434   | 715643    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 61            | 425437   | 715647    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 62            | 425444   | 715643    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 63            | 425503   | 715632    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 64            | 425433   | 715655    | Town of Peterborough | --             | 720.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 65            | 425353   | 715704    | Town of Peterborough | --             | 720.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 66            | 425416   | 715657    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 67            | 425402   | 715612    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 68            | 425604   | 715442    | Ramsey, W.           | --             | 800.0                            | --                        | --                               | --              | --             | --  | BM                     |         |
| PCW 69            | 425424   | 715604    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 70            | 425358   | 715655    | Town of Peterborough | --             | 710.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 71            | 425101   | 715748    | Town of Peterborough | --             | 780.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 72            | 425506   | 715621    | Town of Peterborough | --             | 700.0                            | --                        | --                               | --              | --             | --  |                        |         |
| PCW 73            | 425082   | 715314    | Temple Mtn Ski Area  | 1984           | 1320.0                           | --                        | 19.0                             | --              | S              | --  | BM                     |         |
| PCW 74            | 425057   | 715326    | Temple Mtn Ski Area  | 1984           | 1460.0                           | --                        | 19.0                             | --              | S              | --  | BM                     |         |
| PCW 75            | 425323   | 715913    | Gavells              | 1984           | 900.0                            | --                        | 83.0                             | --              | X              | --  | BM                     |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water depth (feet) | Water level date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min) /ft) | Pumping period (hours) | Remarks               |
|-------------------|--------------------|-----------------------------|----------------------|-------------------------|-----------------|-----------------------------------|------------------------|-----------------------|
|                   |                    |                             |                      |                         |                 |                                   |                        |                       |
| PCW 46            | --                 | ----                        | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 47            | 2.5                | 07-31-86                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 48            | --                 | ----                        | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 49            | 3.5                | 08-01-86                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 50            | --                 | ----                        | 0                    | 60.0                    | 7.7             | --                                | 48                     |                       |
| PCW 51            | --                 | ----                        | 0                    | 18.0                    | 3.8             | --                                | 48                     |                       |
| PCW 52            | --                 | ----                        | 0                    | 22.0                    | .7              | --                                | 24                     |                       |
| PCW 53            | --                 | ----                        | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 54            | 3.6                | 11-10-77                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 55            | .3                 | 03-16-78                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 56            | 3.8                | 02-03-78                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 57            | 2.3                | 03-14-77                    | 0                    | 60.0                    | 2.3             | 26.7                              | 2.5                    |                       |
| PCW 58            | 2.8                | 10-26-77                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 59            | 2.2                | 10-27-77                    | 0                    | 50.0                    | 4.0             | 12.7                              | 2                      |                       |
| PCW 60            | 2.5                | 11-02-77                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 61            | 4.1                | 11-04-77                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 62            | --                 | ----                        | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 63            | 2.7                | 11-08-77                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 64            | --                 | ----                        | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 65            | --                 | ----                        | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 66            | 3.5                | 08-17-64                    | P                    | 520.0                   | 12.3            | 30.5                              | 15800                  | Municipal supply well |
| PCW 67            | 2.8                | 09-08-64                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 68            | --                 | ----                        | H                    | --                      | --              | --                                | --                     |                       |
| PCW 69            | 8.9                | 09-09-64                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 70            | 2.0                | 09-16-64                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 71            | 2.2                | 07-10-84                    | P                    | 400.0                   | 8.9             | 45.1                              | 72000                  | Municipal supply well |
| PCW 72            | 1.1                | 05-03-86                    | 0                    | --                      | --              | --                                | --                     |                       |
| PCW 73            | --                 | ----                        | C                    | 110.0                   | --              | --                                | --                     |                       |
| PCW 74            | --                 | ----                        | C                    | 60.0                    | --              | --                                | --                     |                       |
| PCW 75            | --                 | ----                        | H                    | 3.5                     | --              | --                                | 1.0                    |                       |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user     | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or spring (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|---------|
| PCW 76            | 425530   | 715804    | Carter            | 1984           | 950.0                            | --                        | 299.0                            | --              | --             | --   | BrW          |         |
| PCW 77            | 425533   | 715808    | Phillips          | 1984           | 950.0                            | --                        | 319.0                            | --              | X              | --   | BrW          |         |
| PCW 78            | 425231   | 715451    | Blanchette        | 1984           | 1030.0                           | --                        | 41.0                             | --              | X              | --   | BrW          |         |
| PCW 79            | 425346   | 715354    | Carr              | 1985           | 960.0                            | --                        | 52.0                             | --              | X              | --   | BrW          |         |
| PCW 80            | 425554   | 715818    | Genet             | 1985           | 900.0                            | --                        | 104.0                            | --              | X              | --   | BrW          |         |
| PCW 81            | 425111   | 715440    | Peterson          | 1985           | 1300.0                           | --                        | 219.0                            | --              | X              | --   | BrW          |         |
| PCW 82            | 425442   | 715502    | Faccidomo         | 1985           | 780.0                            | --                        | 114.0                            | --              | X              | --   | BrW          |         |
| PCW 83            | 425217   | 715546    | Day               | 1985           | 980.0                            | --                        | 84.0                             | --              | X              | --   | BrW          |         |
| PCW 84            | 425221   | 715526    | Lakoche           | 1985           | 1000.0                           | --                        | 44.0                             | --              | X              | --   | BrW          |         |
| PCW 85            | 425342   | 715329    | Adams             | 1985           | 1020.0                           | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| PCW 86            | 425210   | 715842    | Greenwood         | 1985           | 1000.0                           | --                        | 119.0                            | --              | X              | --   | BrW          |         |
| PCW 87            | 425443   | 715431    | Stanek            | 1985           | 840.0                            | --                        | 169.0                            | --              | X              | --   | BrW          |         |
| PCW 88            | 425633   | 715345    | Brown             | 1985           | 800.0                            | --                        | 179.0                            | --              | X              | --   | BrW          |         |
| PCW 89            | 425222   | 715759    | Sterling          | 1986           | 880.0                            | --                        | 41.0                             | --              | X              | --   | BrW          |         |
| PCW 90            | 425226   | 715817    | Nursing Home      | 1985           | 920.0                            | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| PCW 91            | 425124   | 715803    | Babcock           | 1986           | 820.0                            | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| PCW 92            | 425046   | 715436    | Lakshmanan        | 1985           | 1210.0                           | --                        | 28.0                             | --              | X              | --   | BrW          |         |
| PCW 93            | 425122   | 715806    | Olin Construction | 1986           | 820.0                            | --                        | 25.0                             | --              | X              | --   | BrW          |         |
| PCW 94            | 425105   | 715440    | Olsen             | 1986           | 1220.0                           | --                        | 139.0                            | --              | X              | --   | BrW          |         |
| PCW 95            | 425421   | 715551    | Blanchette        | 1987           | 700.0                            | --                        | 34.0                             | --              | X              | --   | BrW          |         |
| PCW 96            | 425348   | 715402    | Connelly          | 1987           | 940.0                            | --                        | 98.0                             | --              | X              | --   | BrW          |         |
| PCW 97            | 425106   | 715424    | Kahane            | 1987           | 1220.0                           | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| PCW 98            | 425239   | 715835    | Calvin            | 1987           | 980.0                            | --                        | 84.0                             | --              | X              | --   | BrW          |         |
| PCW 99            | 425408   | 715409    | Raposa            | 1987           | 960.0                            | --                        | 163.0                            | --              | X              | --   | BrW          |         |
| PCW 100           | 425240   | 715838    | Calvin            | 1987           | 980.0                            | --                        | --                               | --              | X              | --   | BrW          |         |
| PCW 101           | 425404   | 715717    | LaRock            | 1986           | 800.0                            | --                        | 189.0                            | --              | X              | --   | BrW          |         |
| PCW 102           | 425126   | 715801    | Hanson            | 1986           | 810.0                            | --                        | 29.0                             | --              | X              | --   | BrW          |         |
| PCW 103           | 425209   | 715836    | Blanchette        | 1986           | 960.0                            | --                        | 124.0                            | --              | X              | --   | BrW          |         |
| PCW 104           | 425142   | 715402    | Lakoche           | 1986           | 1330.0                           | --                        | 114.0                            | --              | X              | --   | BrW          |         |
| PCW 105           | 425139   | 715403    | LaRoche           | 1986           | 1330.0                           | --                        | 109.0                            | --              | X              | --   | BrW          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Depth (feet) | Water Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------|-----------------------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|---------|
| PCW 76            | 60.0         | 09-20-84                    | H                    | 15.0                    | --              | --                             | 7.5                    |         |
| PCW 77            | --           | ----                        | H                    | 3.0                     | --              | --                             | 1.5                    |         |
| PCW 78            | 15.0         | 12-17-84                    | H                    | 10.0                    | --              | --                             | 3.0                    |         |
| PCW 79            | 30.0         | 04-04-85                    | H                    | 3.0                     | --              | --                             | 2.0                    |         |
| PCW 80            | --           | ----                        | H                    | 3.0                     | --              | --                             | 2.0                    |         |
| PCW 81            | --           | ----                        | H                    | 25.0                    | --              | --                             | --                     |         |
| PCW 82            | 60.0         | 06-05-85                    | H                    | 12.0                    | --              | --                             | --                     |         |
| PCW 83            | --           | ----                        | H                    | 4.0                     | --              | --                             | --                     |         |
| PCW 84            | 40.0         | 04-26-85                    | H                    | 2.0                     | --              | --                             | --                     |         |
| PCW 85            | --           | ----                        | H                    | 4.0                     | --              | --                             | --                     |         |
| PCW 86            | 40.0         | 06-10-85                    | H                    | 4.0                     | --              | --                             | --                     |         |
| PCW 87            | 30.0         | 06-11-85                    | H                    | 3.0                     | --              | --                             | --                     |         |
| PCW 88            | --           | ----                        | H                    | 3.0                     | --              | --                             | 0.3                    |         |
| PCW 89            | 8.0          | 05-23-86                    | H                    | 12.0                    | --              | --                             | 1.0                    |         |
| PCW 90            | 20.0         | 09-19-85                    | H                    | 2.0                     | --              | --                             | 1.0                    |         |
| PCW 91            | 17.0         | 07-05-86                    | H                    | 15.0                    | --              | --                             | 1.0                    |         |
| PCW 92            | --           | ----                        | H                    | 20.0                    | --              | --                             | 2.0                    |         |
| PCW 93            | --           | ----                        | H                    | 6.0                     | --              | --                             | .5                     |         |
| PCW 94            | --           | ----                        | H                    | 30.0                    | --              | --                             | .5                     |         |
| PCW 95            | 18.0         | 03-17-87                    | H                    | 25.0                    | --              | --                             | 1.0                    |         |
| PCW 96            | 10.0         | 05-19-87                    | H                    | 20.0                    | --              | --                             | 1.5                    |         |
| PCW 97            | 20.0         | 04-02-87                    | H                    | 8.0                     | --              | --                             | 1.0                    |         |
| PCW 98            | 30.0         | 06-03-87                    | H                    | 20.0                    | --              | --                             | .5                     |         |
| PCW 99            | --           | ----                        | H                    | 20.0                    | --              | --                             | 2.0                    |         |
| PCW 100           | 105.0        | 05-30-87                    | --                   | .8                      | --              | --                             | .5                     |         |
| PCW 101           | --           | ----                        | H                    | 10.0                    | --              | --                             | --                     |         |
| PCW 102           | --           | ----                        | H                    | 15.0                    | --              | --                             | --                     |         |
| PCW 103           | 60.0         | 09-08-86                    | H                    | 8.0                     | --              | --                             | --                     |         |
| PCW 104           | 45.0         | 10-07-86                    | H                    | 30.0                    | --              | --                             | --                     |         |
| PCW 105           | 40.0         | 10-07-86                    | H                    | 50.0                    | --              | --                             | --                     |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user          | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Material of casing | Type of finish | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|------------------------|----------------|----------------------------------|---------------------------|----------------------------------|--------------------|----------------|--|--------------|
| PCW 106           | 425226   | 715508    | Barsari                | 1986           | 1010.0                           | --                        | 99.0                             | --                 | X              | --                                     | BrW          |
| PCW 107           | 425240   | 715835    | Calvin                 | 1986           | 980.0                            | --                        | 82.0                             | --                 | X              | --                                     | BrW          |
| PCW 108           | 425554   | 715511    | Saunders               | 1987           | 810.0                            | --                        | 134.0                            | --                 | X              | --                                     | BrW          |
| PCW 109           | 425121   | 715506    | Shultz                 | 1987           | 1220.0                           | --                        | --                               | --                 | X              | --                                     | BrW          |
| PCW 110           | 425506   | 715751    | Blanchette             | 1988           | 880.0                            | --                        | 17.0                             | --                 | X              | --                                     | BrW          |
| PCW 111           | 425416   | 715722    | Lord                   | 1988           | 860.0                            | --                        | 109.0                            | --                 | X              | --                                     | BrW          |
| PCW 112           | 425412   | 715558    | Ferry                  | 1988           | 710.0                            | --                        | 36.0                             | --                 | X              | --                                     | BrW          |
| PCW 113           | 425122   | 715818    | Allard                 | 1988           | 840.0                            | --                        | 102.0                            | --                 | X              | --                                     | BrW          |
| PCW 114           | 425621   | 715523    | Rushako                | 1988           | 820.0                            | --                        | 181.0                            | --                 | X              | --                                     | BrW          |
| PCW 115           | 425605   | 715441    | Olson                  | 1988           | 800.0                            | --                        | 39.0                             | --                 | X              | --                                     | BrW          |
| PCW 116           | 425556   | 715819    | McDonald               | 1988           | 880.0                            | --                        | 100.0                            | --                 | X              | --                                     | BrW          |
| PCW 117           | 425239   | 715814    | Unitarian Church       | 1988           | 900.0                            | --                        | --                               | --                 | X              | --                                     | BrW          |
| PCW 118           | 425358   | 715404    | Blanchette             | 1988           | 990.0                            | --                        | 174.0                            | --                 | X              | --                                     | BrW          |
| PCW 119           | 425431   | 715422    | Smith                  | 1988           | 940.0                            | --                        | 164.0                            | --                 | X              | --                                     | BrW          |
| PCW 120           | 425125   | 715448    | Wagh                   | 1989           | 1240.0                           | --                        | 39.0                             | --                 | X              | --                                     | BrW          |
| PCW 121           | 425623   | 715532    | Orchard Contrg Company | 1988           | 800.0                            | --                        | 120.0                            | --                 | X              | --                                     | BrW          |
| PCW 125           | 425429   | 715654    | Tarbell                | --             | 710.0                            | --                        | --                               | --                 | --             | --                                     | --           |
| PCW 126           | 425341   | 715650    | Town of Peterboro      | --             | 0.0                              | --                        | --                               | --                 | --             | --                                     | --           |
| PCW 127           | 425553   | 715945    | --                     | 1989           | 950.0                            | 2                         | 37.0                             | P                  | S              | 39.0                                   | TH           |

Hillsborough County

Peterborough--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Material of casing | Type of finish | Depth to bottom of open section (feet) | Type of well          |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|--------------------|----------------|--|-----------------------|
| PCW 106           | 50.0     | 11-12-86  |               |                | 45.0                             | --                        | --                               | --                 | --             | --                                     | --                    |
| PCW 107           | 130.0    | 09-05-86  |               |                | 5.5                              | --                        | --                               | --                 | --             | 3.0                                    | --                    |
| PCW 108           | --       | ----      |               |                | 18.0                             | --                        | --                               | --                 | --             | .3                                     | --                    |
| PCW 109           | 20.0     | 06-05-87  |               |                | 12.0                             | --                        | --                               | --                 | --             | .5                                     | --                    |
| PCW 110           | 50.0     | 02-08-88  |               |                | 15.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 111           | 90.0     | 05-30-88  |               |                | 6.0                              | --                        | --                               | --                 | --             | .5                                     | --                    |
| PCW 112           | 26.0     | 08-12-88  |               |                | 6.0                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 113           | --       | ----      |               |                | .8                               | --                        | --                               | --                 | --             | 2.0                                    | --                    |
| PCW 114           | --       | ----      |               |                | 3.0                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 115           | 31.0     | 05-30-88  |               |                | 6.0                              | --                        | --                               | --                 | --             | .5                                     | --                    |
| PCW 116           | --       | ----      |               |                | 20.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 117           | --       | ----      |               |                | 5.0                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 118           | 100.0    | 11-18-88  |               |                | 15.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 119           | 20.0     | 09-28-88  |               |                | 40.0                             | --                        | --                               | --                 | --             | .8                                     | --                    |
| PCW 120           | --       | ----      |               |                | 20.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 121           | --       | ----      |               |                | 2.5                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 125           | --       | ----      |               |                | 350.0                            | --                        | --                               | --                 | --             | --                                     | Municipal supply well |
| PCW 126           | --       | ----      |               |                | 350.0                            | --                        | --                               | --                 | --             | --                                     | Municipal supply well |
| PCW 127           | 7.3      | 07-08-89  |               |                | --                               | --                        | --                               | --                 | --             | --                                     | USGS;2                |

Sharon

| Local site number | Latitude | Longitude | Owner or user      | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Material of casing | Type of finish | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|--------------------|----------------|----------------------------------|---------------------------|----------------------------------|--------------------|----------------|--|--------------|
| SIB 1             | --       | ----      |                    |                | 1150.0                           | --                        | --                               | --                 | --             | --                                     | TH           |
| SIB 2             | --       | ----      |                    |                | 1150.0                           | --                        | --                               | --                 | --             | --                                     | TH           |
| SIB 3             | --       | ----      |                    |                | 810.0                            | --                        | --                               | --                 | --             | --                                     | TH           |
| SIW 1             | 424853   | 715749    | Beauvais, Henry J. | 1957           | 1050.0                           | --                        | 27.0                             | --                 | --             | --                                     | BrW          |
| SIW 3             | 424914   | 715745    | Flagg, Osgood      | 1961           | 1120.0                           | --                        | 16.0                             | --                 | --             | --                                     | BrW          |
| SIW 4             | 424847   | 715643    | Wilson, Edith      | 1957           | 1140.0                           | --                        | 60.0                             | --                 | --             | --                                     | BrW          |
| SIW 5             | 424820   | 715433    | Bert, William H.   | 1957           | 1370.0                           | --                        | 30.0                             | --                 | --             | --                                     | BrW          |
| SIW 6             | 424949   | 715801    | Booth, Robert H.   | 1957           | 1070.0                           | --                        | 96.0                             | --                 | --             | --                                     | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Material of casing | Type of finish | Depth to bottom of open section (feet) | Type of well          |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|--------------------|----------------|--|-----------------------|
| PCW 106           | 50.0     | 11-12-86  |               |                | 45.0                             | --                        | --                               | --                 | --             | --                                     | --                    |
| PCW 107           | 130.0    | 09-05-86  |               |                | 5.5                              | --                        | --                               | --                 | --             | 3.0                                    | --                    |
| PCW 108           | --       | ----      |               |                | 18.0                             | --                        | --                               | --                 | --             | .3                                     | --                    |
| PCW 109           | 20.0     | 06-05-87  |               |                | 12.0                             | --                        | --                               | --                 | --             | .5                                     | --                    |
| PCW 110           | 50.0     | 02-08-88  |               |                | 15.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 111           | 90.0     | 05-30-88  |               |                | 6.0                              | --                        | --                               | --                 | --             | .5                                     | --                    |
| PCW 112           | 26.0     | 08-12-88  |               |                | 6.0                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 113           | --       | ----      |               |                | .8                               | --                        | --                               | --                 | --             | 2.0                                    | --                    |
| PCW 114           | --       | ----      |               |                | 3.0                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 115           | 31.0     | 05-30-88  |               |                | 6.0                              | --                        | --                               | --                 | --             | .5                                     | --                    |
| PCW 116           | --       | ----      |               |                | 20.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 117           | --       | ----      |               |                | 5.0                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 118           | 100.0    | 11-18-88  |               |                | 15.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 119           | 20.0     | 09-28-88  |               |                | 40.0                             | --                        | --                               | --                 | --             | .8                                     | --                    |
| PCW 120           | --       | ----      |               |                | 20.0                             | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 121           | --       | ----      |               |                | 2.5                              | --                        | --                               | --                 | --             | 1.0                                    | --                    |
| PCW 125           | --       | ----      |               |                | 350.0                            | --                        | --                               | --                 | --             | --                                     | Municipal supply well |
| PCW 126           | --       | ----      |               |                | 350.0                            | --                        | --                               | --                 | --             | --                                     | Municipal supply well |
| PCW 127           | 7.3      | 07-08-89  |               |                | --                               | --                        | --                               | --                 | --             | --                                     | USGS;2                |

Hillsborough County

Peterborough--Continued

Sharon

Appendix A.--Description of wells and borings--Continued

| Local site number   | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of well or section (feet) | Type of well or spring | Remarks |
|---------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|------------------------|---------|
| Hillsborough County |          |           |                         |                |                                  |                           |                                  |                 |                |   |                        |         |
| Sharon--Continued   |          |           |                         |                |                                  |                           |                                  |                 |                |   |                        |         |
| SIW 7               | 424949   | 715801    | Booth, Robert H.        | 1961           | 1070.0                           | --                        | 65.0                             | --              | --             | --  | BRW                    |         |
| SIW 8               | 424919   | 715757    | Calef, C. H.            | 1953           | 1130.0                           | --                        | --                               | --              | --             | --  | BRW                    |         |
| SIW 9               | 424910   | 715515    | O'Neal, D.              | --             | 1220.0                           | --                        | --                               | --              | --             | --  | BRW                    |         |
| SIW 10              | 424826   | 715712    |                         | 1989           | 1070.0                           | 2                         | 19.0                             | P               | S              | 21.0                                      | TH                     |         |
| Windsor             |          |           |                         |                |                                  |                           |                                  |                 |                |   |                        |         |
| WOW 1               | 430654   | 720056    | Hines, Thomas           | 1964           | 1150.0                           | --                        | --                               | --              | --             | --  | BRW                    |         |
| WOW 2               | 430650   | 720051    | Hines, Thomas           | 1900           | 1130.0                           | --                        | --                               | --              | --             | --  | BRW                    |         |
| WOW 3               | 430746   | 720025    | Petucci                 | 1964           | 1070.0                           | --                        | --                               | --              | --             | --  | BRW                    |         |
| WOW 4               | 430743   | 720032    | Houghton                | 1986           | 1080.0                           | --                        | 99.0                             | --              | X              | --  | BRW                    |         |
| WOW 5               | 430734   | 720121    | NE Dist Church Nazarene | 1987           | 1230.0                           | --                        | 134.0                            | --              | X              | --  | BRW                    |         |
| WOW 6               | 430702   | 720103    | Nickerson               | 1988           | 1180.0                           | --                        | 15.0                             | --              | X              | --  | BRW                    |         |
| WOW 7               | 430654   | 720033    | Aspin                   | 1988           | 1050.0                           | --                        | 19.0                             | --              | X              | --  | BRW                    |         |
| WOW 8               | 430737   | 720158    | Lewis & K. Orsini       | 1988           | 1080.0                           | --                        | 16.0                             | --              | X              | --  | BRW                    |         |
| WOW 9               | 430735   | 720118    | Riley & L. Steeves      | 1988           | 1230.0                           | --                        | 137.0                            | --              | X              | --  | BRW                    |         |
| WOW 10              | 430622   | 720011    | Charron                 | 1988           | 1280.0                           | --                        | 16.0                             | --              | X              | --  | BRW                    |         |
| WOW 11              | 430615   | 720025    | Peters                  | 1988           | 1130.0                           | --                        | 37.0                             | --              | X              | --  | BRW                    |         |
| WOW 12              | 430836   | 720104    | Glenclimbing            | 1989           | 300.0                            | --                        | 35.0                             | --              | X              | --  | BRW                    |         |
| WOW 13              | 430833   | 720148    | Hersey                  | 1989           | 297.0                            | --                        | 46.0                             | --              | X              | --  | BRW                    |         |
| Merrimack County    |          |           |                         |                |                                  |                           |                                  |                 |                |   |                        |         |
| Andover             |          |           |                         |                |                                  |                           |                                  |                 |                |   |                        |         |
| ANB 1               | 432553   | 715209    | NH PUB WKS WMY          | --             | 650.0                            | --                        | --                               | --              | --             | --  | TH                     |         |
| ANB 2               | 432605   | 714815    | NH PUB WKS WMY          | --             | 620.0                            | --                        | --                               | --              | --             | --  | TH                     |         |
| ANB 3               | 432520   | 714636    | NH PUB WKS WMY          | --             | 600.0                            | --                        | --                               | --              | --             | --  | TH                     |         |
| ANB 4               | 432518   | 714638    | NH PUB WKS WMY          | --             | 600.0                            | --                        | --                               | --              | --             | --  | TH                     |         |
| ANB 5               | 432537   | 715229    | NH PUB WKS WMY          | --             | 660.0                            | --                        | --                               | --              | --             | --  | TH                     |         |

Appendix A.--Description of wells and borings--Continued

| Local site number   | Meter Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Max. well yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                 |
|---------------------|--------------------------|-----------------|----------------------|---------------------------|------------------|----------------------------------|------------------------|-------------------------|
| Hillsborough County |                          |                 |                      |                           |                  |                                  |                        |                         |
| Sharon--Continued   |                          |                 |                      |                           |                  |                                  |                        |                         |
| SIW 7               | 20.0                     | 06-----61       | H                    | 10.0                      | --               | --                               | --                     | Bedrock                 |
| SIW 8               | 15.0                     | -----53         | H                    | 4.0                       | --               | --                               | --                     | Bedrock                 |
| SIW 9               | --                       | -----           | H                    | 4.0                       | --               | --                               | --                     |                         |
| SIW 10              | 5.7                      | 06-22-89        | T                    | 3.0                       | 9.4              | 0.3                              | .13                    | USGS:2                  |
| Windsor             |                          |                 |                      |                           |                  |                                  |                        |                         |
| WOW 1               | 20.0                     | -----64         | H                    | 5.0                       | --               | --                               | --                     | Bedrock                 |
| WOW 2               | --                       | -----           | H                    | 15.0                      | --               | --                               | --                     | Bedrock                 |
| WOW 3               | 20.0                     | -----64         | H                    | 50.0                      | --               | --                               | --                     | Bedrock                 |
| WOW 4               | --                       | -----           | H                    | 40.0                      | --               | --                               | .3                     |                         |
| WOW 5               | 20.0                     | 11-23-87        | H                    | 6.0                       | --               | --                               | --                     |                         |
| WOW 6               | 15.0                     | 03-25-88        | H                    | 20.0                      | --               | --                               | 0.8                    |                         |
| WOW 7               | 20.0                     | 06-07-88        | H                    | 1.3                       | --               | --                               | .3                     |                         |
| WOW 8               | --                       | -----           | H                    | 12.0                      | --               | --                               | .5                     |                         |
| WOW 9               | --                       | -----           | H                    | 4.0                       | --               | --                               | .5                     |                         |
| WOW 10              | 35.0                     | 07-22-88        | H                    | 1.0                       | --               | --                               | --                     |                         |
| WOW 11              | --                       | -----           | H                    | 3.0                       | --               | --                               | --                     |                         |
| WOW 12              | --                       | -----           | H                    | 12.0                      | --               | --                               | .8                     |                         |
| WOW 13              | 4.0                      | 04-17-89        | H                    | 10.0                      | --               | --                               | .2                     |                         |
| Merrimack County    |                          |                 |                      |                           |                  |                                  |                        |                         |
| Andover             |                          |                 |                      |                           |                  |                                  |                        |                         |
| ANB 1               | --                       | -----           | T                    | --                        | --               | --                               | --                     | Bridge 050/093 boring 8 |
| ANB 2               | --                       | -----           | T                    | --                        | --               | --                               | --                     | Bridge 118/095 boring 5 |
| ANB 3               | 3.0                      | 09-----33       | T                    | --                        | --               | --                               | --                     | Bridge 143/077 boring 2 |
| ANB 4               | -1.4                     | 09-----33       | T                    | --                        | --               | --                               | --                     | Bridge 143/077 boring 8 |
| ANB 5               | --                       | 10-----55       | T                    | --                        | --               | --                               | --                     | Bridge 044/088 boring 1 |

Appendix A...Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or (feet) spring | Depth to bottom of well (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---|--------------------------------|--------------|---------|
|                   |          |           |                         |                |                                  |                           |                                  |                 |   |                                |              |         |
| ANB 6             | 432617   | 715135    | NH PUB WKS WRY          | --             | 680.0                            | --                        | --                               | --              | --                                      | --                             | TH           |         |
| ANB 7             | 432616   | 715137    | NH PUB WKS WRY          | --             | 680.0                            | --                        | --                               | --              | --                                      | --                             | TH           |         |
| ANB 8             | 432556   | 714805    | NH PUB WKS WRY          | --             | 610.0                            | --                        | --                               | --              | --                                      | --                             | TH           |         |
| ANW 3             | 432633   | 715220    | Fierro, E.E.            | 1961           | 690.0                            | --                        | --                               | --              | --                                      | --                             | BrW          |         |
| ANW 4             | 432626   | 715202    | Ness, John              | 1964           | 670.0                            | --                        | 15.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 5             | 432637   | 715232    | Page, Walter            | 1959           | 680.0                            | --                        | --                               | --              | --                                      | --                             | BrW          |         |
| ANW 7             | 432619   | 715041    | Kroutel, Louis          | 1957           | 630.0                            | --                        | 30.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 8             | 432532   | 715237    | Tamutaiteas, Charles V. | 1963           | 670.0                            | --                        | 40.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 15            | 432641   | 714719    | Town of Andover         | --             | 640.0                            | --                        | --                               | --              | --                                      | --                             |              |         |
| ANW 16            | 432636   | 714719    | Town of Andover         | --             | 640.0                            | --                        | --                               | --              | --                                      | --                             |              |         |
| ANW 17            | 432633   | 714722    | Town of Andover         | --             | 640.0                            | --                        | --                               | --              | --                                      | --                             |              |         |
| ANW 18            | 432638   | 714717    | Town of Andover         | --             | 640.0                            | --                        | --                               | --              | --                                      | --                             |              |         |
| ANW 19            | 432603   | 714932    | --                      | 1988           | 650.0                            | 2                         | 90                               | PVC             | S                                       | 92                             | TH           |         |
| ANW 20            | 432528   | 714651    | Flaherty                | 1984           | 610.0                            | --                        | 249.0                            | --              | --                                      | --                             | BrW          |         |
| ANW 21            | 432526   | 714621    | Wiggin                  | 1984           | 610.0                            | --                        | 9.5                              | --              | --                                      | --                             |              |         |
| ANW 22            | 432611   | 714811    | Bilodeau                | 1985           | 640.0                            | --                        | 19.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 25            | 432654   | 715052    | Williams                | 1985           | 960.0                            | --                        | 120.0                            | --              | --                                      | --                             | BrW          |         |
| ANW 26            | 432639   | 715305    | Richardson              | 1985           | 740.0                            | --                        | 39.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 27            | 432616   | 714715    | Highway Patrol Shed     | 1985           | 630.0                            | --                        | 259.0                            | --              | --                                      | --                             | BrW          |         |
| ANW 29            | 432536   | 715154    | Scalora                 | 1986           | 700.0                            | --                        | 59.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 30            | 432617   | 715031    | Mahar                   | 1986           | 660.0                            | --                        | 27.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 31            | 432514   | 714824    | Stetson                 | 1986           | 980.0                            | --                        | 41.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 34            | 432556   | 714355    | Nelson                  | 1986           | 840.0                            | --                        | 19.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 35            | 432634   | 714623    | Waldo                   | 1987           | 630.0                            | --                        | 104.0                            | --              | --                                      | --                             | BrW          |         |
| ANW 36            | 432529   | 714633    | French                  | 1986           | 610.0                            | --                        | 231.0                            | --              | --                                      | --                             | BrW          |         |
| ANW 37            | 432534   | 714635    | Schechter               | 1987           | 620.0                            | --                        | 180.0                            | --              | --                                      | --                             | BrW          |         |
| ANW 38            | 432700   | 715312    | Ness                    | 1987           | 680.0                            | --                        | 19.0                             | --              | --                                      | --                             | BrW          |         |
| ANW 39            | 432554   | 715208    | Samborn                 | 1987           | 650.0                            | --                        | 82.0                             | --              | --                                      | --                             | BrW          |         |

Appendix A...Description of wells and borings--Continued

| Local site number | Water Level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum well yield (gal/min) | Specific capacity (gal/min)/(ft) | Pumping period (hours) | Remarks                  |
|-------------------|-----------------------------|--------------|----------------------|------------------------------|----------------------------------|------------------------|--------------------------|
|                   |                             |              |                      |                              |                                  |                        |                          |
| ANB 6             | 4.5                         | 10-21-55     | T                    | --                           | --                               | --                     | Bridge 058/103 boring 11 |
| ANB 7             | --                          | -----        | T                    | --                           | --                               | --                     | Bridge 058/103 boring 2  |
| ANB 8             | --                          | -----        | U                    | --                           | --                               | --                     | Bridge 120/092 boring 6  |
| ANW 3             | 20.0                        | 08-22-61     | H                    | 6.0                          | --                               | --                     | Bedrock                  |
| ANW 4             | 45.0                        | 06-16-64     | H                    | 12.0                         | --                               | --                     | Bedrock                  |
| ANW 5             | --                          | -----        | H                    | 4.0                          | --                               | --                     | Bedrock                  |
| ANW 7             | --                          | -----        | H                    | 8.0                          | --                               | --                     | Bedrock                  |
| ANW 8             | --                          | -----        | H                    | 6.0                          | --                               | --                     | Bedrock                  |
| ANW 15            | 12.0                        | 10-21-86     | O                    | --                           | --                               | --                     |                          |
| ANW 16            | 20.0                        | 10-24-86     | O                    | --                           | --                               | --                     |                          |
| ANW 17            | 20.5                        | 01-26-83     | O                    | --                           | --                               | --                     |                          |
| ANW 18            | 1.8                         | 01-26-83     | O                    | --                           | --                               | --                     |                          |
| ANW 19            | 35.1                        | 06-26-89     | T                    | --                           | --                               | --                     | USGS:Z                   |
| ANW 20            | --                          | -----        | H                    | 3.0                          | --                               | 0.5                    |                          |
| ANW 21            | 13.0                        | 10-17-84     | H                    | 6.0                          | --                               | 2.0                    |                          |
| ANW 22            | --                          | -----        | H                    | --                           | --                               | --                     |                          |
| ANW 25            | 85.0                        | 05-10-85     | H                    | 7.5                          | --                               | 1.0                    |                          |
| ANW 26            | --                          | -----        | H                    | 1.5                          | --                               | .5                     |                          |
| ANW 27            | 20.0                        | 06-07-85     | H                    | 5.0                          | --                               | .3                     |                          |
| ANW 29            | 40.0                        | 09-12-86     | H                    | 5.0                          | --                               | .5                     |                          |
| ANW 30            | --                          | -----        | H                    | 12.0                         | --                               | 1.0                    |                          |
| ANW 31            | --                          | -----        | H                    | 60.0                         | --                               | 1.0                    |                          |
| ANW 34            | --                          | -----        | H                    | 4.5                          | --                               | .8                     |                          |
| ANW 35            | --                          | -----        | H                    | 3.0                          | --                               | 1.0                    |                          |
| ANW 36            | 30.0                        | 11-29-86     | H                    | 6.0                          | --                               | .5                     |                          |
| ANW 37            | 25.0                        | 05-01-87     | H                    | 200.0                        | --                               | .8                     |                          |
| ANW 38            | --                          | -----        | H                    | 2.0                          | --                               | 1.0                    |                          |
| ANW 39            | --                          | -----        | H                    | 4.0                          | --                               | .8                     |                          |



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user      | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or spring | Depth to bottom of open well (feet) | Type of well |
|-------------------|----------|-----------|--------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------------------------|-------------------------------------|--------------|
| ANW 40            | 432713   | 715106    | Lemont             | 1987           | 1100.0                           | --                        | 79.0                             | --              | X                                | --                                  | BrW          |
| ANW 41            | 432615   | 714430    | Patuleia           | 1987           | 680.0                            | --                        | 70.0                             | --              | X                                | --                                  | BrW          |
| ANW 43            | 432641   | 715241    | Broodwick          | 1987           | 660.0                            | --                        | 50.0                             | --              | X                                | --                                  | BrW          |
| ANW 44            | 432613   | 714708    | Delaney            | 1987           | 620.0                            | --                        | 99.0                             | --              | X                                | --                                  | BrW          |
| ANW 46            | 432554   | 714614    | Anderson           | 1987           | 620.0                            | --                        | 109.0                            | --              | X                                | --                                  | BrW          |
| ANW 47            | 432533   | 714619    | Normand & J. Young | 1987           | 640.0                            | --                        | 109.0                            | --              | X                                | --                                  | BrW          |
| ANW 48            | 432719   | 714648    | Mischomb           | 1987           | 860.0                            | --                        | 70.0                             | --              | X                                | --                                  | BrW          |
| ANW 49            | 432718   | 714646    | Begin              | 1987           | 860.0                            | --                        | 60.0                             | --              | X                                | --                                  | BrW          |
| ANW 50            | 432640   | 714759    | Rhines             | 1988           | 640.0                            | --                        | 109.0                            | --              | X                                | --                                  | BrW          |
| ANW 54            | 432549   | 714657    |                    | 1989           | 630.0                            | 2                         | 38.0                             | P               | S                                | 40.0                                | TH           |
| ANW 56            | 432552   | 714625    | Shoemake           | 1988           | 620.0                            | --                        | 61.0                             | --              | X                                | --                                  | BrW          |
| ANW 57            | 432641   | 714727    | Barton             | 1988           | 640.0                            | --                        | 149.0                            | --              | X                                | --                                  | BrW          |
| ANW 58            | 432611   | 714747    | Emerson            | 1989           | 615.0                            | --                        | 189.0                            | --              | X                                | --                                  | BrW          |
| Boscawen          |          |           |                    |                |                                  |                           |                                  |                 |                                  |                                     |              |
| BTB 2             | 431705   | 713551    | NH PUB WKS NHY     | --             | 290.0                            | --                        | --                               | --              | --                               | --                                  | TH           |
| BTW 1             | 432010   | 714159    | William Urbach     | 1988           | 520.0                            | --                        | --                               | --              | --                               | --                                  | --           |
| Bradford          |          |           |                    |                |                                  |                           |                                  |                 |                                  |                                     |              |
| BVB 1             | 431545   | 715659    | NH PUB WKS NHY     | --             | 640.0                            | --                        | --                               | --              | --                               | --                                  | TH           |
| BVB 2             | 431626   | 715803    | NH PUB WKS NHY     | --             | 680.0                            | --                        | --                               | --              | --                               | --                                  | TH           |
| BVB 3             | 431409   | 715447    | NH PUB WKS NHY     | --             | 650.0                            | --                        | --                               | --              | --                               | --                                  | TH           |
| BWV 1             | 431604   | 715722    | Wise, Frank        | 1958           | 690.0                            | --                        | 88.0                             | --              | --                               | --                                  | BrW          |
| BWV 2             | 431609   | 715752    | Allen, Lee         | 1962           | 690.0                            | --                        | --                               | --              | --                               | --                                  | BrW          |
| BWV 3             | 431610   | 715756    | Carlton, Frank C.  | 1950           | 690.0                            | --                        | 115.0                            | --              | --                               | --                                  | BrW          |
| BWV 5             | 431428   | 715511    | Day, John          | 1958           | 660.0                            | --                        | 13.0                             | --              | --                               | --                                  | BrW          |
| BWV 6             | 431405   | 715540    | Elliott, W.R.      | 1953           | 860.0                            | --                        | 43.0                             | --              | --                               | --                                  | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number  | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                   |
|--------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------------------------|
| ANW 40             | --                       | -----           | H                    | 5.0                     | --              | --                               | .5                     |                           |
| ANW 41             | --                       | -----           | H                    | 3.0                     | --              | --                               | .5                     |                           |
| ANW 43             | --                       | -----           | H                    | 25.0                    | --              | --                               | .8                     |                           |
| ANW 44             | 4.0                      | 10-07-87        | H                    | 60.0                    | --              | --                               | .8                     |                           |
| ANW 46             | --                       | -----           | H                    | 3.5                     | --              | --                               | .5                     |                           |
| ANW 47             | --                       | -----           | H                    | 3.0                     | --              | --                               | .3                     |                           |
| ANW 48             | --                       | -----           | H                    | 2.0                     | --              | --                               | .3                     |                           |
| ANW 49             | --                       | -----           | H                    | 5.0                     | --              | --                               | .3                     |                           |
| ANW 50             | 8.0                      | 03-22-88        | H                    | 3.5                     | --              | --                               | 1.0                    | USCS;Z                    |
| ANW 54             | 18.5                     | 06-22-89        | T                    | --                      | --              | --                               | --                     |                           |
| ANW 56             | --                       | -----           | H                    | 5.0                     | --              | --                               | --                     |                           |
| ANW 57             | --                       | -----           | H                    | 100.0                   | --              | --                               | .8                     |                           |
| ANW 58             | --                       | -----           | H                    | 40.0                    | --              | --                               | .3                     |                           |
| Merrimack County   |                          |                 |                      |                         |                 |                                  |                        |                           |
| Andover--Continued |                          |                 |                      |                         |                 |                                  |                        |                           |
| BTB 2              | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 131/035 boring 3   |
| BTW 1              | --                       | -----           | T                    | --                      | --              | --                               | --                     |                           |
| Boscawen           |                          |                 |                      |                         |                 |                                  |                        |                           |
| Bradford           |                          |                 |                      |                         |                 |                                  |                        |                           |
| BVB 1              | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 146/140 boring 3   |
| BVB 2              | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 127/158 boring 6A8 |
| BVB 3              | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 180/105 boring 4   |
| BWV 1              | 9.0                      | 06-18-58        | H                    | 10.0                    | --              | --                               | --                     | Bedrock                   |
| BWV 2              | 17.0                     | ----62          | H                    | 4.0                     | --              | --                               | --                     | Bedrock                   |
| BWV 3              | 20.0                     | 06-12-50        | H                    | 6.0                     | --              | --                               | --                     | Bedrock                   |
| BWV 5              | 8.0                      | 02-03-58        | H                    | 3.0                     | --              | --                               | --                     | Bedrock                   |
| BWV 6              | 25.0                     | 05-13-53        | H                    | 14.0                    | --              | --                               | --                     | Bedrock                   |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring | Type of well |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| BW 7              | 431454   | 715531    | Gerkins, Albert         | 1958           | 660.0                            | --                        | 13.0                             | --              | --             | --   | BrW          |
| BW 8              | 431603   | 715757    | Gineprae, George        | 1954           | 650.0                            | --                        | 87.0                             | --              | --             | --   | BrW          |
| BW 10             | 431612   | 715754    | Johnson, Ben            | 1950           | 700.0                            | --                        | 115.0                            | --              | --             | --   | BrW          |
| BW 11             | 431550   | 715942    | Maxfield, Harris        | 1960           | 810.0                            | --                        | 28.0                             | --              | --             | --   | BrW          |
| BW 12             | 431612   | 715758    | Moore, Thomas           | 1956           | 690.0                            | --                        | 101.0                            | --              | --             | --   | BrW          |
| BW 13             | 431612   | 715804    | Pierson, Charles G.     | 1958           | 670.0                            | --                        | 111.0                            | --              | --             | --   | BrW          |
| BW 14             | 431556   | 720005    | Smardon, Marion         | 1960           | 820.0                            | --                        | 68.0                             | --              | --             | --   | BrW          |
| BW 15             | 431613   | 715809    | Stewart, Ernest         | 1961           | 700.0                            | --                        | --                               | --              | --             | --   | BrW          |
| BW 16             | 431559   | 715754    | Swimerton, C.P.         | 1900           | 680.0                            | --                        | 21.0                             | --              | --             | --   | BrW          |
| BW 17             | 431544   | 715759    | Westerberg, Edwin       | 1955           | 850.0                            | --                        | 76.0                             | --              | --             | --   | BrW          |
| BW 18             | 431612   | 715741    | Tansey                  | 1954           | 690.0                            | --                        | --                               | --              | --             | --   | BrW          |
| BW 19             | 431610   | 715723    | Whitman, Richard        | 1963           | 690.0                            | --                        | 80.0                             | --              | --             | --   | BrW          |
| BW 20             | 431621   | 715810    | Christopher, M.         | 1963           | 690.0                            | --                        | --                               | --              | --             | --   | BrW          |
| BW 21             | 431602   | 715712    | Danforth, P.            | --             | 680.0                            | --                        | --                               | --              | --             | --   | BrW          |
| BW 22             | 431607   | 715728    | Edwards                 | --             | 680.0                            | --                        | --                               | --              | --             | --   | BrW          |
| BW 23             | 431533   | 720156    | --                      | 1988           | 930.0                            | 2                         | 26.0                             | PVC             | S              | 29   | TH           |
| BW 24             | 431548   | 720028    | --                      | 1988           | 810.0                            | 2                         | 95.0                             | PVC             | S              | 98   | TH           |
| BW 25             | 431557   | 715753    | Platt                   | 1984           | 700.0                            | --                        | 150.0                            | --              | X              | --   | BrW          |
| BW 26             | 431428   | 720035    | Allen                   | 1985           | 1020.0                           | --                        | --                               | --              | --             | --   | Dug          |
| BW 27             | 431417   | 715601    | Cayer                   | 1984           | 900.0                            | --                        | 11.0                             | --              | X              | --   | BrW          |
| BW 28             | 431445   | 715524    | Vahay                   | 1984           | 660.0                            | --                        | 20.0                             | --              | X              | --   | BrW          |
| BW 29             | 431422   | 720039    | Bahrakis                | 1985           | 1020.0                           | --                        | 95.0                             | --              | X              | --   | BrW          |
| BW 30             | 431429   | 720026    | Migault                 | 1985           | 980.0                            | --                        | 120.0                            | --              | X              | --   | BrW          |
| BW 31             | 431427   | 720040    | Hanson                  | 1985           | 1040.0                           | --                        | 100.0                            | --              | X              | --   | BrW          |
| BW 32             | 431609   | 715728    | Merrinack Co Phone Corp | 1985           | 680.0                            | --                        | 90.0                             | --              | X              | --   | BrW          |
| BW 33             | 431430   | 715513    | Chase                   | 1985           | 640.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |
| BW 34             | 431546   | 715715    | Brown                   | 1985           | 660.0                            | --                        | 1.0                              | --              | --             | --   | Dug          |
| BW 35             | 431611   | 715750    | Page                    | 1985           | 700.0                            | --                        | 90.0                             | --              | X              | --   | BrW          |
| BW 36             | 431159   | 715749    | Burgess                 | 1986           | 1200.0                           | --                        | 30.0                             | --              | X              | --   | BrW          |
| BW 37             | 431401   | 715736    | Szymkonicz              | 1986           | 900.0                            | --                        | 171.0                            | --              | X              | --   | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min)/ft | Pumping period (hours) | Remarks          |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|------------------|
| BW 7              | 19.0                     | 02-07-58        | H                    | 12.0                    | --              | --                             | --                     | Bedrock          |
| BW 8              | 25.0                     | 12-19-54        | H                    | 4.0                     | --              | --                             | --                     | Bedrock          |
| BW 10             | --                       | ----            | H                    | 7.0                     | --              | --                             | --                     | Bedrock          |
| BW 11             | --                       | ----            | H                    | 6.0                     | --              | --                             | --                     | Bedrock          |
| BW 12             | 90.0                     | 10-06-56        | H                    | 5.0                     | --              | --                             | --                     | Bedrock          |
| BW 13             | 30.0                     | 03-26-58        | H                    | 4.0                     | --              | --                             | --                     | Bedrock          |
| BW 14             | 27.0                     | 03-00-60        | H                    | 8.0                     | --              | --                             | --                     | Bedrock          |
| BW 15             | 17.0                     | ----61          | H                    | 10.0                    | --              | --                             | --                     | Bedrock          |
| BW 16             | 9.0                      | ----00          | H                    | 2.0                     | --              | --                             | --                     | Bedrock          |
| BW 17             | 10.0                     | 11-01-55        | H                    | 4.0                     | --              | --                             | --                     | Bedrock          |
| BW 18             | 25.0                     | ----54          | H                    | 3.0                     | --              | --                             | --                     | Stratified drift |
| BW 19             | 20.0                     | 01-00-63        | H                    | 1.5                     | --              | --                             | --                     | Bedrock          |
| BW 20             | --                       | ----            | H                    | 4.0                     | --              | --                             | --                     | Bedrock          |
| BW 21             | --                       | ----            | H                    | 5.0                     | --              | --                             | --                     | Bedrock          |
| BW 22             | --                       | ----            | H                    | 12.0                    | --              | --                             | --                     | Bedrock          |
| BW 23             | 3.1                      | 07-08-89        | T                    | --                      | --              | --                             | --                     | USGS;2           |
| BW 24             | 1.3                      | 08-08-89        | T                    | --                      | --              | --                             | --                     | USGS;2           |
| BW 25             | 16.0                     | 04-06-84        | H                    | 7.0                     | --              | --                             | --                     |                  |
| BW 26             | --                       | ----            | H                    | 40.0                    | --              | --                             | 3.0                    |                  |
| BW 27             | 14.0                     | 08-20-84        | H                    | 4.5                     | --              | --                             | .5                     |                  |
| BW 28             | --                       | ----            | H                    | 2.0                     | --              | --                             | .5                     |                  |
| BW 29             | 20.0                     | 07-22-85        | H                    | 4.0                     | --              | --                             | 1.0                    |                  |
| BW 30             | --                       | ----            | H                    | 6.0                     | --              | --                             | .5                     |                  |
| BW 31             | --                       | ----            | H                    | 9.0                     | --              | --                             | .5                     |                  |
| BW 32             | --                       | ----            | H                    | 50.0                    | --              | --                             | .3                     |                  |
| BW 33             | 5.0                      | 10-05-85        | H                    | 7.0                     | --              | --                             | 1.0                    |                  |
| BW 34             | 7.0                      | 12-03-85        | H                    | --                      | --              | --                             | --                     |                  |
| BW 35             | --                       | ----            | H                    | .5                      | --              | --                             | .5                     |                  |
| BW 36             | 10.0                     | 10-08-86        | H                    | 8.0                     | --              | --                             | .5                     |                  |
| BW 37             | 40.0                     | 10-10-86        | H                    | 1.0                     | --              | --                             | 1.5                    |                  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or open well | Depth to bottom of well (feet) | Type of well |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|-------------------------------------|--------------------------------|--------------|
| BW 38             | 431422   | 715507    | Montgomery              | 1986           | 660.0                            | --                        | 25.0                             | --              | X                                   | --                             | BrW          |
| BW 39             | 431400   | 715430    | Hebert                  | 1986           | 710.0                            | --                        | 39.0                             | --              | X                                   | --                             | BrW          |
| BW 40             | 431538   | 720022    | Wadleigh                | 1986           | 820.0                            | --                        | 29.0                             | --              | X                                   | --                             | BrW          |
| BW 41             | 431622   | 715739    | Lala                    | 1986           | 700.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 42             | 431613   | 715652    | Brown                   | 1986           | 940.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 43             | 431600   | 715718    | Town of Bradford        | 1986           | 680.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 44             | 431450   | 715542    | Vorbach                 | 1985           | 760.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 45             | 431612   | 715802    | Hall                    | 1984           | 680.0                            | --                        | 100.0                            | --              | X                                   | --                             | BrW          |
| BW 46             | 431439   | 715557    | Kincaid                 | 1985           | 830.0                            | --                        | 80.0                             | --              | X                                   | --                             | BrW          |
| BW 47             | 431442   | 715551    | Manning                 | 1985           | 810.0                            | --                        | 12.0                             | --              | X                                   | --                             | BrW          |
| BW 48             | 431309   | 715328    | English                 | 1986           | 940.0                            | --                        | 9.0                              | --              | X                                   | --                             | BrW          |
| BW 49             | 431555   | 715618    | Kearsarge Regional Scho | 1986           | 680.0                            | --                        | 135.0                            | --              | X                                   | --                             | BrW          |
| BW 50             | 431430   | 715407    | Dorey                   | 1986           | 640.0                            | --                        | 10.0                             | --              | X                                   | --                             | BrW          |
| BW 51             | 431534   | 715836    | Parker                  | 1987           | 1080.0                           | --                        | 60.0                             | --              | X                                   | --                             | BrW          |
| BW 52             | 431542   | 715838    | Losik                   | 1987           | 1100.0                           | --                        | 20.0                             | --              | X                                   | --                             | BrW          |
| BW 53             | 431408   | 715405    | Curtes                  | 1987           | 660.0                            | --                        | 39.0                             | --              | X                                   | --                             | BrW          |
| BW 54             | 431511   | 715515    | Brownson                | 1986           | 680.0                            | --                        | 56.0                             | --              | X                                   | --                             | BrW          |
| BW 55             | 431430   | 715951    | Parys                   | 1987           | 900.0                            | --                        | 59.0                             | --              | X                                   | --                             | BrW          |
| BW 56             | 431604   | 715545    | Strout                  | 1987           | 660.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 57             | 431447   | 715545    | Fisher                  | 1987           | 800.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 58             | 431414   | 715519    | Janicki                 | 1987           | 720.0                            | --                        | 91.0                             | --              | X                                   | --                             | BrW          |
| BW 59             | 431215   | 715758    | Lamarca                 | 1987           | 1200.0                           | --                        | 106.0                            | --              | X                                   | --                             | BrW          |
| BW 60             | 431411   | 720038    | Woodard                 | 1988           | 1020.0                           | --                        | 86.0                             | --              | X                                   | --                             | BrW          |
| BW 61             | 431533   | 715831    | Brown                   | 1988           | 1100.0                           | --                        | 45.0                             | --              | X                                   | --                             | BrW          |
| BW 62             | 431441   | 715419    | Miller & D. Barnes      | 1988           | 640.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 63             | 431602   | 715550    | Box                     | 1988           | 660.0                            | --                        | 20.0                             | --              | X                                   | --                             | BrW          |
| BW 64             | 431345   | 715428    | Foley                   | 1989           | 840.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 65             | 431449   | 715545    | Volpe                   | 1988           | 760.0                            | --                        | 19.0                             | --              | X                                   | --                             | BrW          |
| BW 66             | 431210   | 715757    | Freesse, R.             | 1988           | 1180.0                           | --                        | 79.0                             | --              | X                                   | --                             | BrW          |
| BW 67             | 431555   | 715703    | Hall                    | 1988           | 660.0                            | --                        | 49.0                             | --              | X                                   | --                             | BrW          |

Merrimack County

Bradford--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------|
| BW 38             | 12.0                     | 06-02-86        | H                    | 5.0                     | --              | --                               | .8                     |         |
| BW 39             | --                       | ----            | H                    | 3.0                     | --              | --                               | --                     |         |
| BW 40             | 20.0                     | 05-12-86        | H                    | 35.0                    | --              | --                               | .8                     |         |
| BW 41             | 5.0                      | 02-07-86        | H                    | 2.0                     | --              | --                               | .8                     |         |
| BW 42             | 26.0                     | 10-25-86        | H                    | 6.0                     | --              | --                               | --                     |         |
| BW 43             | 8.0                      | 01-23-86        | H                    | 10.0                    | --              | --                               | 0.8                    |         |
| BW 44             | --                       | ----            | H                    | 8.0                     | --              | --                               | 1.0                    |         |
| BW 45             | --                       | ----            | H                    | 35.0                    | --              | --                               | 1.0                    |         |
| BW 46             | --                       | ----            | H                    | 80.0                    | --              | --                               | 1.0                    |         |
| BW 47             | --                       | ----            | H                    | 25.0                    | --              | --                               | 1.0                    |         |
| BW 48             | 6.0                      | 10-01-86        | H                    | 10.0                    | --              | --                               | 1.0                    |         |
| BW 49             | --                       | ----            | T                    | 6.0                     | --              | --                               | .5                     |         |
| BW 50             | --                       | ----            | H                    | 25.0                    | --              | --                               | 1.0                    |         |
| BW 51             | 100.0                    | 07-14-87        | H                    | 1.0                     | --              | --                               | .5                     |         |
| BW 52             | --                       | ----            | H                    | 8.0                     | --              | --                               | .5                     |         |
| BW 53             | --                       | ----            | H                    | 4.0                     | --              | --                               | .8                     |         |
| BW 54             | --                       | ----            | H                    | 25.0                    | --              | --                               | .1                     |         |
| BW 55             | 22.0                     | 10-01-87        | H                    | 50.0                    | --              | --                               | .8                     |         |
| BW 56             | 20.0                     | 09-20-87        | H                    | 70.0                    | --              | --                               | .8                     |         |
| BW 57             | --                       | ----            | H                    | 5.0                     | --              | --                               | 1.0                    |         |
| BW 58             | 5.0                      | 08-13-87        | H                    | 15.0                    | --              | --                               | --                     |         |
| BW 59             | 35.0                     | 08-08-87        | H                    | 2.0                     | --              | --                               | --                     |         |
| BW 60             | --                       | ----            | H                    | 20.0                    | --              | --                               | .5                     |         |
| BW 61             | 30.0                     | 05-12-88        | H                    | 6.0                     | --              | --                               | 1.0                    |         |
| BW 62             | --                       | ----            | H                    | 15.0                    | --              | --                               | --                     |         |
| BW 63             | 30.0                     | 07-01-88        | H                    | 60.0                    | --              | --                               | .3                     |         |
| BW 64             | 50.0                     | 03-16-89        | H                    | 1.3                     | --              | --                               | .5                     |         |
| BW 65             | 20.0                     | 08-12-88        | H                    | 12.0                    | --              | --                               | 1.0                    |         |
| BW 66             | 40.0                     | 10-04-88        | H                    | 30.0                    | --              | --                               | .5                     |         |
| BW 67             | --                       | ----            | H                    | 8.0                     | --              | --                               | 1.0                    |         |

Merrimack County

Bradford--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or open well | Depth to bottom of well (feet) | Type of well |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|-------------------------------------|--------------------------------|--------------|
| BW 68             | 431558   | 715629    | Anderson            | 1988           | 720.0                            | --                        | 47.0                             | --              | X                                   | --                             | BrW          |
| BW 69             | 431545   | 715930    | Brown               | 1989           | 795.0                            | --                        | 80.0                             | --              | X                                   | --                             | BrW          |
| BW 70             | 431404   | 715408    | Fisher              | 1990           | 660.0                            | --                        | 55.0                             | --              | X                                   | --                             | BrW          |
| Concord           |          |           |                     |                |                                  |                           |                                  |                 |                                     |                                |              |
| CVA 11            | 431451   | 713921    | --                  | 1991           | 365.0                            | --                        | --                               | --              | --                                  | --                             | Bor          |
| CVB 60            | 431655   | 713607    | NH PUB WKS HWY      | --             | 300.0                            | --                        | --                               | --              | --                                  | --                             | TH           |
| CVB 61            | 431653   | 713606    | NH PUB WKS HWY      | --             | 300.0                            | --                        | --                               | --              | --                                  | --                             | TH           |
| CVB 62            | 431500   | 713714    | NH PUB WKS HWY      | --             | 360.0                            | --                        | --                               | --              | --                                  | --                             | TH           |
| CVB 63            | 431458   | 713712    | NH PUB WKS HWY      | --             | 360.0                            | --                        | --                               | --              | --                                  | --                             | TH           |
| CW 46             | 431525   | 713931    | --                  | 1988           | 390.0                            | 2                         | 20.0                             | P               | S                                   | 23                             | TH           |
| CW 137            | 431548   | 713533    | --                  | 1989           | 370.0                            | 2                         | 15.0                             | P               | S                                   | 17.0                           | TH           |
| CW 151            | 431450   | 713706    | Rene                | 1961           | 365.0                            | --                        | 88.0                             | --              | --                                  | --                             | BrW          |
| CW 152            | 431426   | 713623    | Lord, F.S.          | 1900           | 500.0                            | --                        | 74.0                             | --              | --                                  | --                             | BrW          |
| CW 153            | 431426   | 713623    | Lord, F.S.          | 1961           | 500.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |
| CW 154            | 431426   | 713616    | Lord, Fred          | 1959           | 485.0                            | --                        | 42.0                             | --              | --                                  | --                             | BrW          |
| CW 156            | 431559   | 713646    | Pelisser, J.G.      | 1969           | 420.0                            | --                        | 35.0                             | --              | --                                  | --                             | BrW          |
| CW 157            | 431356   | 713749    | Schurman, Wesley    | 1960           | 500.0                            | --                        | 54.0                             | --              | --                                  | --                             | BrW          |
| CW 158            | 431636   | 713552    | White, Fred         | 1953           | 380.0                            | --                        | 71.0                             | --              | --                                  | --                             | BrW          |
| CW 160            | 431621   | 713530    | NH DEPT. ENV. SERV. | --             | 370.0                            | --                        | --                               | --              | --                                  | 30.0                           | BrW          |
| CW 161            | 431622   | 713523    | NH DEPT. ENV. SERV. | --             | 360.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |
| CW 162            | 431617   | 713529    | NH DEPT. ENV. SERV. | --             | 370.0                            | --                        | --                               | --              | --                                  | 25.0                           | BrW          |
| CW 240            | 431554   | 713658    | Johnson             | 1990           | 360.0                            | --                        | 62.0                             | --              | X                                   | --                             | BrW          |
| CW 241            | 431355   | 713751    | TBD Development     | 1990           | 500.0                            | --                        | 99.0                             | --              | X                                   | --                             | BrW          |
| CW 242            | 431359   | 713836    | TBD Development     | 1990           | 360.0                            | --                        | 139.0                            | --              | X                                   | --                             | BrW          |
| Danbury           |          |           |                     |                |                                  |                           |                                  |                 |                                     |                                |              |
| DBB 2             | 433013   | 715238    | NH PUB WKS HWY      | --             | 790.0                            | --                        | --                               | --              | --                                  | --                             | TH           |
| DBB 3             | 433109   | 715154    | NH PUB WKS HWY      | --             | 820.0                            | --                        | --                               | --              | --                                  | --                             | TH           |

Appendix A.--Description of wells and borings--Continued

| Local site number   | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks                  |
|---------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|--------------------------|
| BW 68               | --                       | -----           | H                    | 8.0                     | --              | --                             | 1.0                    |                          |
| BW 69               | --                       | -----           | H                    | 15.0                    | --              | --                             | .3                     |                          |
| BW 70               | 16.0                     | 06-02-90        | H                    | 3.0                     | --              | --                             | 1.0                    |                          |
| Merrimack County    |                          |                 |                      |                         |                 |                                |                        |                          |
| Bradford--Continued |                          |                 |                      |                         |                 |                                |                        |                          |
| CVA 11              | --                       | -----           | T                    | --                      | --              | --                             | --                     | USGS;2                   |
| CVB 60              | --                       | -----           | T                    | --                      | --              | --                             | --                     | Bridge 040/090 boring 6  |
| CVB 61              | --                       | -----           | T                    | --                      | --              | --                             | --                     | Bridge 040/090 boring 18 |
| CVB 62              | --                       | -----           | T                    | --                      | --              | --                             | --                     | Bridge 069/052 boring 11 |
| CVB 63              | --                       | -----           | T                    | --                      | --              | --                             | --                     | Bridge 069/052 boring 1  |
| Concord             |                          |                 |                      |                         |                 |                                |                        |                          |
| CW 46               | 4.3                      | 06-22-89        | T                    | 1.5                     | 18.2            | 0.1                            | 14                     | USGS;2                   |
| CW 137              | 3.4                      | 04-07-89        | T                    | --                      | --              | --                             | --                     | USGS;2                   |
| CW 151              | 12.0                     | 08-----61       | H                    | 8.0                     | --              | --                             | --                     | Bedrock                  |
| CW 152              | 19.0                     | -----00         | H                    | 4.0                     | --              | --                             | --                     | Bedrock                  |
| CW 153              | 10.0                     | 07-----61       | H                    | 9.0                     | --              | --                             | --                     | Bedrock                  |
| CW 154              | 14.0                     | 09-----59       | H                    | 5.0                     | --              | --                             | --                     | Bedrock                  |
| CW 156              | 10.0                     | 11-----69       | H                    | 15.0                    | --              | --                             | --                     | Bedrock                  |
| CW 157              | --                       | -----           | H                    | 3.0                     | --              | --                             | --                     | Bedrock                  |
| CW 158              | 40.0                     | 06-26-63        | H                    | 30.0                    | --              | --                             | --                     | Bedrock                  |
| CW 160              | 11.3                     | 09-27-82        | T                    | --                      | --              | --                             | --                     |                          |
| CW 161              | 40.5                     | 09-23-82        | T                    | --                      | --              | --                             | --                     |                          |
| CW 162              | --                       | -----           | T                    | --                      | --              | --                             | --                     |                          |
| CW 240              | 8.0                      | 11-28-90        | H                    | 3.0                     | --              | --                             | --                     |                          |
| CW 241              | --                       | -----           | H                    | 8.0                     | --              | --                             | 1.0                    |                          |
| CW 242              | --                       | -----           | H                    | 20.0                    | --              | --                             | 1.0                    |                          |
| Danbury             |                          |                 |                      |                         |                 |                                |                        |                          |
| DBB 2               | --                       | -----           | T                    | --                      | --              | --                             | --                     | Bridge 178/091 boring 2  |
| DBB 3               | 2.1                      | 09-----29       | T                    | --                      | --              | --                             | --                     | Bridge 156/104 boring 4  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user   | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring | Type of well |
|-------------------|----------|-----------|-----------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| DBW 3             | 432846   | 715322    | Town of Danbury | 1985           | 700.0                            | --                        | --                               | --              | G              | --   | BrW          |
| DBW 4             | 432846   | 715317    | Town of Danbury | --             | 730.0                            | --                        | --                               | --              | --             | --   | --           |
| DBW 5             | 432846   | 715327    | Town of Danbury | --             | 690.0                            | --                        | --                               | --              | --             | --   | --           |
| DBW 6             | 432839   | 715323    | Town of Danbury | --             | 720.0                            | --                        | --                               | --              | --             | --   | --           |
| DBW 7             | 432851   | 715320    | Town of Danbury | --             | 700.0                            | --                        | --                               | --              | --             | --   | --           |
| DBW 13            | 433015   | 715233    | Kepler          | 1984           | 800.0                            | --                        | --                               | --              | X              | --   | BrW          |
| DBW 23            | 433051   | 715220    | Mason           | 1986           | 920.0                            | --                        | 29.0                             | --              | X              | --   | BrW          |
| DBW 24            | 433019   | 715231    | Ford            | 1986           | 880.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |

Merrimack County

Danbury--Continued

|        |        |        |                   |      |       |     |       |    |    |    |     |
|--------|--------|--------|-------------------|------|-------|-----|-------|----|----|----|-----|
| HMB 1  | 431014 | 714744 | NH PUB WKS HWY    | --   | 410.0 | --  | --    | -- | -- | -- | TH  |
| HMB 3  | 431002 | 715115 | NH PUB WKS HWY    | --   | 520.0 | --  | --    | -- | -- | -- | TH  |
| HMB 4  | 431115 | 714940 | NH PUB WKS HWY    | --   | 560.0 | --  | --    | -- | -- | -- | TH  |
| HMB 5  | 431124 | 714917 | NH PUB WKS HWY    | --   | 560.0 | --  | --    | -- | -- | -- | TH  |
| HMB 6  | 431126 | 714904 | NH PUB WKS HWY    | --   | 410.0 | --  | --    | -- | -- | -- | TH  |
| HMB 7  | 431042 | 714803 | --                | --   | 410.0 | --  | --    | -- | -- | -- | TH  |
| HMB 8  | 430914 | 714558 | --                | --   | 460.0 | --  | --    | -- | -- | -- | TH  |
| HMB 10 | 430939 | 714626 | Town of Henniker  | --   | 460.0 | --  | --    | -- | -- | -- | TH  |
| HMB 11 | 430934 | 714624 | Town of Henniker  | --   | 480.0 | --  | --    | -- | -- | -- | TH  |
| HMW 7  | 431212 | 714707 | Potter, Mary      | --   | 680.0 | --  | 73.0  | -- | -- | -- | BrW |
| HMW 8  | 431117 | 714714 | Elinor, Robert    | 1960 | 620.0 | --  | 70.0  | -- | -- | -- | BrW |
| HMW 9  | 431318 | 714839 | Tucker, Harold C. | 1952 | 740.0 | --  | 210.0 | -- | -- | -- | BrW |
| HMW 12 | 431113 | 714848 | Town of Henniker  | 1979 | 420.0 | 8.0 | --    | -- | -- | -- | Dug |
| HMW 13 | 431113 | 714852 | Town of Henniker  | --   | 420.0 | --  | --    | -- | -- | -- | --  |
| HMW 14 | 431111 | 714846 | Town of Henniker  | --   | 410.0 | 2.5 | --    | -- | -- | -- | --  |
| HMW 15 | 431118 | 714848 | Town of Henniker  | --   | 400.0 | --  | --    | -- | -- | -- | --  |
| HMW 16 | 431114 | 714845 | Town of Henniker  | --   | 410.0 | --  | --    | -- | -- | -- | --  |
| HMW 17 | 431113 | 714843 | Town of Henniker  | --   | 410.0 | --  | --    | -- | -- | -- | --  |
| HMW 18 | 431103 | 714846 | Town of Henniker  | --   | 420.0 | --  | --    | -- | -- | -- | --  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min) / ft] | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|------------------------------------|------------------------|---------|
| DBW 3             | 43.0                     | 03-18-85        | 0                    | --                      | --              | --                                 | --                     | --      |
| DBW 4             | 27.6                     | 11-27-84        | 0                    | --                      | --              | --                                 | --                     | --      |
| DBW 5             | 41.5                     | 11-27-84        | 0                    | --                      | --              | --                                 | --                     | --      |
| DBW 6             | 26.5                     | 03-13-85        | 0                    | --                      | --              | --                                 | --                     | --      |
| DBW 7             | 39.9                     | 05-29-85        | 0                    | --                      | --              | --                                 | --                     | --      |
| DBW 13            | --                       | ----            | H                    | .3                      | --              | --                                 | .5                     | --      |
| DBW 23            | 20.0                     | 06-03-86        | H                    | 3.0                     | --              | --                                 | .3                     | --      |
| DBW 24            | 18.0                     | 06-04-86        | H                    | 1.0                     | --              | --                                 | .3                     | --      |

Merrimack County

Danbury--Continued

|        |      |          |   |       |      |      |       |                          |
|--------|------|----------|---|-------|------|------|-------|--------------------------|
| HMB 1  | --   | ----     | T | --    | --   | --   | --    | Bridge 142/095 boring 1  |
| HMB 3  | --   | ----     | T | --    | --   | --   | --    | Bridge 087/105 boring 9  |
| HMB 4  | --   | ----     | T | --    | --   | --   | --    | Bridge 118/124 boring 13 |
| HMB 5  | --   | ----     | T | --    | --   | --   | --    | Bridge 125/125 boring 4  |
| HMB 6  | --   | ----     | T | --    | --   | --   | --    | Bridge 131/124 boring 9  |
| HMB 7  | --   | ----     | T | --    | --   | --   | --    | USGS;2                   |
| HMB 8  | --   | ----     | T | --    | --   | --   | --    | USGS;2                   |
| HMB 10 | 62.0 | 08-08-85 | 0 | --    | --   | --   | --    | --                       |
| HMB 11 | 46.8 | 08-15-88 | 0 | --    | --   | --   | --    | --                       |
| HMW 7  | 35.0 | 07-25-55 | H | 9.0   | --   | --   | --    | Bedrock                  |
| HMW 8  | --   | ----     | H | 30.0  | --   | --   | --    | Bedrock                  |
| HMW 9  | 40.0 | 12----52 | H | 15.0  | --   | --   | --    | Bedrock                  |
| HMW 12 | 8.5  | 07-23-79 | P | 326.0 | 13.5 | 24.3 | 10100 | Municipal supply well    |
| HMW 13 | 7.3  | 05-07-79 | T | --    | --   | --   | --    | --                       |
| HMW 14 | 15.2 | 05-16-79 | 0 | --    | 0.83 | 35   | 0.5   | --                       |
| HMW 15 | 3.4  | 06-15-79 | 0 | --    | --   | --   | --    | --                       |
| HMW 16 | 7.8  | 05-10-88 | 0 | --    | --   | --   | --    | --                       |
| HMW 17 | 8.1  | 05-11-79 | 0 | --    | --   | --   | --    | --                       |
| HMW 18 | 3.4  | 05-15-79 | 0 | --    | --   | --   | --    | --                       |

Appendix A.--Description of wells and borings--Continued

| Local site number   | Latitude | Longitude | Owner or user            | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or (feet) spring | Depth to bottom of open section or (feet) spring | Type of well |
|---------------------|----------|-----------|--------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---|--|--------------|
| Merrimack County    |          |           |                          |                |                                  |                           |                                  |                 |   |  |              |
| Henniker--Continued |          |           |                          |                |                                  |                           |                                  |                 |   |  |              |
| HMW 19              | 431054   | 714845    | Town of Henniker         | 1979           | 410.0                            | --                        | --                               | --              | X                                       | --   | BrW          |
| HMW 20              | 431045   | 714845    | Town of Henniker         | 1979           | 422.0                            | --                        | --                               | --              | X                                       | 60.0   | BrW          |
| HMW 21              | 431049   | 714842    | Town of Henniker         | 1979           | 432.0                            | 12.0                      | 50.0                             | --              | X                                       | 60.0   | BrW          |
| HMW 22              | 431121   | 714940    | Wheeler, C.              | --             | 560.0                            | --                        | --                               | --              | X                                       | --   | BrW          |
| HMW 23              | 431213   | 714801    | Prescott                 | 1984           | 520.0                            | --                        | 119.0                            | --              | X                                       | --   | BrW          |
| HMW 27              | 430942   | 714505    | Hall                     | 1984           | 580.0                            | --                        | 59.0                             | --              | X                                       | --   | BrW          |
| HMW 28              | 430952   | 715109    | Lemire                   | 1984           | 510.0                            | --                        | 80.0                             | --              | X                                       | --   | BrW          |
| HMW 29              | 431223   | 714917    | Peterson                 | 1985           | 510.0                            | --                        | 90.0                             | --              | X                                       | --   | BrW          |
| HMW 30              | 431147   | 714903    | Bunton Builders Inc.     | 1984           | 500.0                            | --                        | 88.0                             | --              | X                                       | --   | BrW          |
| HMW 32              | 430806   | 714542    | Bouke                    | 1984           | 640.0                            | --                        | 37.0                             | --              | X                                       | --   | BrW          |
| HMW 33              | 430825   | 714750    | Sippel                   | 1984           | 1080.0                           | --                        | 13.0                             | --              | --                                      | --   | Dug          |
| HMW 34              | 431051   | 714724    | Owens                    | 1984           | 450.0                            | --                        | 21.0                             | --              | X                                       | --   | BrW          |
| HMW 35              | 431055   | 714718    | Damour                   | 1985           | 480.0                            | --                        | 13.0                             | --              | X                                       | --   | BrW          |
| HMW 36              | 431136   | 714711    | Whyman                   | 1984           | 660.0                            | --                        | 62.0                             | --              | X                                       | --   | BrW          |
| HMW 37              | 430947   | 714819    | Aucoin                   | 1984           | 640.0                            | --                        | 109.0                            | --              | X                                       | --   | BrW          |
| HMW 44              | 431212   | 714843    | Bunton Builders Inc.     | 1985           | 510.0                            | --                        | 99.0                             | --              | X                                       | --   | BrW          |
| HMW 46              | 431207   | 714840    | Bunton Builders Inc.     | 1985           | 530.0                            | --                        | 119.0                            | --              | X                                       | --   | BrW          |
| HMW 48              | 431202   | 714846    | Marston                  | 1985           | 530.0                            | --                        | 47.0                             | --              | X                                       | --   | BrW          |
| HMW 51              | 431202   | 714840    | Bunton Builders Inc.     | 1985           | 560.0                            | --                        | 101.0                            | --              | X                                       | --   | BrW          |
| HMW 54              | 431208   | 714845    | Panetta                  | 1985           | 530.0                            | --                        | 70.0                             | --              | X                                       | --   | BrW          |
| HMW 55              | 431134   | 714929    | Central NH Concrete Corp | 1985           | 480.0                            | --                        | 144.0                            | --              | X                                       | --   | BrW          |
| HMW 56              | 431126   | 714800    | Daniels                  | 1985           | 600.0                            | --                        | 40.0                             | --              | X                                       | --   | BrW          |
| HMW 57              | 431007   | 715105    | Routin                   | 1985           | 550.0                            | --                        | 226.0                            | --              | X                                       | --   | BrW          |
| HMW 58              | 431158   | 714737    | Lucard                   | 1985           | 650.0                            | --                        | 99.0                             | --              | X                                       | --   | BrW          |
| HMW 59              | 430815   | 714745    | Cezzar                   | 1984           | 1060.0                           | --                        | 19.0                             | --              | X                                       | --   | BrW          |
| HMW 63              | 431200   | 714846    | Dobson                   | 1985           | 530.0                            | --                        | 54.0                             | --              | X                                       | --   | BrW          |
| HMW 72              | 430932   | 714813    | Bates                    | 1985           | 800.0                            | --                        | 160.0                            | --              | X                                       | --   | BrW          |
| HMW 73              | 431114   | 715021    | Sansevieri               | 1985           | 710.0                            | --                        | 105.0                            | --              | X                                       | --   | BrW          |
| HMW 74              | 431040   | 714527    | Foster                   | 1985           | 440.0                            | --                        | 130.0                            | --              | X                                       | --   | BrW          |
| HMW 75              | 431049   | 715049    | Tolander                 | 1988           | 560.0                            | --                        | 154.0                            | --              | X                                       | --   | BrW          |
| HMW 83              | 431153   | 714851    | Miller                   | 1985           | 540.0                            | --                        | 30.0                             | --              | X                                       | --   | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number   | Water Level Depth (feet) (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min) /ft) | Pumping period (hours) | Remarks               |
|---------------------|-------------------------------------|----------------------|-------------------------|-----------------|-----------------------------------|------------------------|-----------------------|
| Merrimack County    |                                     |                      |                         |                 |                                   |                        |                       |
| Henniker--Continued |                                     |                      |                         |                 |                                   |                        |                       |
| HMW 19              | 6.4 05-14-79                        | O                    | --                      | --              | --                                | --                     |                       |
| HMW 20              | ----                                | P                    | 220.0                   | --              | --                                | --                     | Municipal supply well |
| HMW 21              | ----                                | P                    | 220.0                   | --              | --                                | --                     | Municipal supply well |
| HMW 22              | ----                                | H                    | 4.0                     | --              | --                                | --                     |                       |
| HMW 23              | ----                                | H                    | 10.0                    | --              | --                                | 1.0                    |                       |
| HMW 27              | ----                                | H                    | 20.0                    | --              | --                                | .5                     |                       |
| HMW 28              | ----                                | H                    | 20.0                    | --              | --                                | .5                     |                       |
| HMW 29              | 05-25-85                            | H                    | 6.0                     | --              | --                                | 1.0                    |                       |
| HMW 30              | ----                                | H                    | 3.0                     | --              | --                                | .5                     |                       |
| HMW 32              | ----                                | H                    | 9.0                     | --              | --                                | 1.0                    |                       |
| HMW 33              | 08-30-84                            | H                    | --                      | --              | --                                | --                     |                       |
| HMW 34              | 11-28-84                            | P                    | 42.0                    | --              | --                                | 48.0                   |                       |
| HMW 35              | 01-08-85                            | H                    | 30.0                    | --              | --                                | 1.0                    |                       |
| HMW 36              | ----                                | H                    | 8.0                     | --              | --                                | .5                     |                       |
| HMW 37              | ----                                | H                    | 3.0                     | --              | --                                | 8.0                    |                       |
| HMW 44              | 06-14-85                            | H                    | 12.0                    | --              | --                                | .5                     |                       |
| HMW 46              | ----                                | H                    | 3.0                     | --              | --                                | --                     |                       |
| HMW 48              | ----                                | H                    | 3.0                     | --              | --                                | .5                     |                       |
| HMW 51              | ----                                | H                    | 3.0                     | --              | --                                | --                     |                       |
| HMW 54              | ----                                | H                    | 4.0                     | --              | --                                | .5                     |                       |
| HMW 55              | ----                                | N                    | 12.0                    | --              | --                                | 50.0                   |                       |
| HMW 56              | ----                                | H                    | 1.5                     | --              | --                                | --                     |                       |
| HMW 57              | 01-31-85                            | H                    | 10.0                    | --              | --                                | 1.0                    |                       |
| HMW 58              | 03-18-85                            | H                    | 5.0                     | --              | --                                | 72.0                   |                       |
| HMW 59              | 08-15-84                            | H                    | 10.0                    | --              | --                                | 1.0                    |                       |
| HMW 63              | ----                                | H                    | 3.0                     | --              | --                                | .5                     |                       |
| HMW 72              | ----                                | H                    | 5.0                     | --              | --                                | .3                     |                       |
| HMW 73              | 09-05-85                            | H                    | 7.0                     | --              | --                                | 1.0                    |                       |
| HMW 74              | ----                                | H                    | 6.0                     | --              | --                                | 1.0                    |                       |
| HMW 75              | ----                                | H                    | 10.0                    | --              | --                                | 1.0                    |                       |
| HMW 83              | ----                                | H                    | 15.0                    | --              | --                                | --                     |                       |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user          | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well or section or (feet) spring | Remarks |
|-------------------|----------|-----------|------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|---------|
|                   |          |           |                        |                |                                  |                           |                                  |                 |                |  |         |
| HMW 84            | 431157   | 714839    | Bunton Builders        | 1985           | 560.0                            | --                        | 62.0                             | --              | X              | BrW  |         |
| HMW 87            | 430918   | 714959    | Schneider              | 1986           | 800.0                            | --                        | 273.0                            | --              | X              | BrW  |         |
| HMW 94            | 431200   | 714821    | Farinella              | 1986           | 570.0                            | --                        | 54.0                             | --              | X              | BrW  |         |
| HMW 97            | 431205   | 714846    | Poisson Brus           | 1986           | 530.0                            | --                        | 91.0                             | --              | X              | BrW  |         |
| HMW 98            | 430929   | 714941    | Arbour                 | 1985           | 720.0                            | --                        | 195.0                            | --              | --             |  |         |
| HMW 99            | 430941   | 715216    | Brown                  | 1986           | 670.0                            | --                        | 139.0                            | --              | X              | BrW  |         |
| HMW 100           | 430942   | 714540    | Kennedy                | 1986           | 430.0                            | --                        | 150.0                            | --              | X              | BrW  |         |
| HMW 101           | 430819   | 714747    | Earthwood Construction | 1986           | 1060.0                           | --                        | 41.0                             | --              | X              | BrW  |         |
| HMW 102           | 431110   | 714771    | Hayes                  | 1986           | 560.0                            | --                        | 130.0                            | --              | X              | BrW  |         |
| HMW 105           | 431145   | 714849    | Radosевич              | 1986           | 540.0                            | --                        | 102.0                            | --              | X              | BrW  |         |
| HMW 109           | 431133   | 714709    | Mulloy                 | 1986           | 650.0                            | --                        | 78.0                             | --              | X              | BrW  |         |
| HMW 113           | 430954   | 715045    | Arnold                 | 1986           | 450.0                            | --                        | 124.0                            | --              | X              | BrW  |         |
| HMW 116           | 430956   | 714522    | Nevins                 | 1986           | 460.0                            | --                        | 261.0                            | --              | X              | BrW  |         |
| HMW 120           | 431157   | 714855    | Bunton Builders Inc.   | 1986           | 530.0                            | --                        | 54.0                             | --              | X              | BrW  |         |
| HMW 124           | 430808   | 714534    | Gregoire               | 1987           | 690.0                            | --                        | 73.0                             | --              | X              | BrW  |         |
| HMW 125           | 431110   | 714721    | Hayes                  | 1987           | 510.0                            | --                        | 70.0                             | --              | X              | BrW  |         |
| HMW 126           | 431123   | 714553    | Dunning Home Group     | 1986           | 480.0                            | --                        | 90.0                             | --              | X              | BrW  |         |
| HMW 127           | 431123   | 714556    | Dunning Home Group     | 1986           | 480.0                            | --                        | 100.0                            | --              | X              | BrW  |         |
| HMW 128           | 431122   | 714555    | Dunning Home Group     | 1987           | 490.0                            | --                        | 100.0                            | --              | X              | BrW  |         |
| HMW 129           | 431121   | 714554    | Dunning Home Group     | 1987           | 500.0                            | --                        | 121.0                            | --              | X              | BrW  |         |
| HMW 130           | 431134   | 714743    | Hooper                 | 1987           | 760.0                            | --                        | 32.0                             | --              | X              | BrW  |         |
| HMW 131           | 431125   | 714556    | Dunning Home Group     | 1987           | 480.0                            | --                        | 99.0                             | --              | X              | BrW  |         |
| HMW 132           | 431119   | 714554    | Dunning Home Group     | 1987           | 480.0                            | --                        | 99.0                             | --              | X              | BrW  |         |
| HMW 135           | 431138   | 714930    | Henniker Crushed Stone | 1987           | 440.0                            | --                        | 119.0                            | --              | X              | BrW  |         |
| HMW 136           | 431201   | 714650    | Bunton Builders Inc.   | 1987           | 520.0                            | --                        | 30.0                             | --              | X              | BrW  |         |
| HMW 137           | 430820   | 715104    | Corbett                | 1987           | 980.0                            | --                        | 156.0                            | --              | X              | BrW  |         |
| HMW 138           | 431118   | 714551    | Dunning Home           | 1987           | 480.0                            | --                        | 103.0                            | --              | X              | BrW  |         |
| HMW 139           | 431127   | 714553    |                        | --             | 490.0                            | --                        | --                               | --              | X              | BrW  |         |
| HMW 140           | 430944   | 715051    | Chicoine Builders      | 1986           | 480.0                            | --                        | 120.0                            | --              | X              | BrW  |         |
| HMW 141           | 431128   | 714813    | Schulte                | 1987           | 530.0                            | --                        | 94.0                             | --              | X              | BrW  |         |

Merrimack County

Henniker--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------|-----------------|----------------------|-------------------------|------------------|--------------------------------|------------------------|---------|
|                   |                    |                 |                      |                         |                  |                                |                        |         |
| HMW 84            | --                 | -----           | H                    | 5.0                     | --               | --                             | .5                     |         |
| HMW 87            | --                 | -----           | H                    | 10.0                    | --               | --                             | .5                     |         |
| HMW 94            | --                 | -----           | H                    | 15.0                    | --               | --                             | .3                     |         |
| HMW 97            | --                 | -----           | H                    | 3.0                     | --               | --                             | 2.0                    |         |
| HMW 98            | --                 | -----           | H                    | 10.0                    | --               | --                             | 4.0                    |         |
| HMW 99            | --                 | -----           | H                    | 6.0                     | --               | --                             | 1.0                    |         |
| HMW 100           | --                 | -----           | H                    | 100.0                   | --               | --                             | .8                     |         |
| HMW 101           | --                 | -----           | H                    | 5.0                     | --               | --                             | 1.0                    |         |
| HMW 102           | --                 | -----           | H                    | 5.0                     | --               | --                             | .5                     |         |
| HMW 105           | 20.0               | 05-07-86        | H                    | 25.0                    | --               | --                             | .3                     |         |
| HMW 109           | --                 | -----           | H                    | 5.0                     | --               | --                             | .3                     |         |
| HMW 113           | 25.0               | 09-22-86        | H                    | 6.0                     | --               | --                             | .5                     |         |
| HMW 116           | 30.0               | 04-18-86        | H                    | 15.0                    | --               | --                             | .5                     |         |
| HMW 120           | 25.0               | 10-28-86        | H                    | 2.0                     | --               | --                             | 0.5                    |         |
| HMW 124           | 20.0               | 02-02-87        | H                    | 60.0                    | --               | --                             | .3                     |         |
| HMW 125           | --                 | -----           | H                    | 6.0                     | --               | --                             | .5                     |         |
| HMW 126           | 25.0               | 11-29-86        | H                    | 2.5                     | --               | --                             | .5                     |         |
| HMW 127           | 25.0               | 12-02-86        | H                    | 4.0                     | --               | --                             | .5                     |         |
| HMW 128           | --                 | -----           | H                    | 1.8                     | --               | --                             | .5                     |         |
| HMW 129           | 30.0               | 03-03-87        | H                    | 2.5                     | --               | --                             | .5                     |         |
| HMW 130           | 100.0              | 06-24-87        | H                    | 7.0                     | --               | --                             | .5                     |         |
| HMW 131           | --                 | -----           | H                    | 20.0                    | --               | --                             | .5                     |         |
| HMW 132           | --                 | -----           | H                    | 3.5                     | --               | --                             | .5                     |         |
| HMW 135           | --                 | -----           | C                    | 25.0                    | --               | --                             | .3                     |         |
| HMW 136           | --                 | -----           | H                    | 20.0                    | --               | --                             | .3                     |         |
| HMW 137           | --                 | -----           | H                    | 9.0                     | --               | --                             | .5                     |         |
| HMW 138           | --                 | -----           | H                    | 10.0                    | --               | --                             | .5                     |         |
| HMW 139           | --                 | -----           | H                    | --                      | --               | --                             | --                     |         |
| HMW 140           | --                 | -----           | H                    | 4.0                     | --               | --                             | .5                     |         |
| HMW 141           | 8.0                | 04-30-87        | H                    | 8.0                     | --               | --                             | 1.0                    |         |

Merrimack County

Henniker--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or | Depth to bottom of well (feet) | Type of well |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---------------------------|--------------------------------|--------------|
| HMW 142           | 431235   | 715114    | Schuegge              | 1987           | 730.0                            | --                        | 20.0                             | --              | X                         | --                             | BrW          |
| HMW 143           | 430949   | 714758    | Henniker Motel        | 1987           | 600.0                            | --                        | 194.0                            | --              | X                         | --                             | BrW          |
| HMW 144           | 431115   | 714543    | Dunning Home          | 1987           | 490.0                            | --                        | 140.0                            | --              | X                         | --                             | BrW          |
| HMW 145           | 431118   | 714545    | Anctil                | 1987           | 480.0                            | --                        | 110.0                            | --              | X                         | --                             | BrW          |
| HMW 146           | 431113   | 714542    | Dunning Home          | 1987           | 490.0                            | --                        | 139.0                            | --              | X                         | --                             | BrW          |
| HMW 147           | 431119   | 714549    | Dunning Home          | 1987           | 480.0                            | --                        | 120.0                            | --              | X                         | --                             | BrW          |
| HMW 148           | 430847   | 714756    | Khorana               | 1987           | 1220.0                           | --                        | 47.0                             | --              | X                         | --                             | BrW          |
| HMW 150           | 430834   | 714844    | Brown                 | 1987           | 1150.0                           | --                        | 17.0                             | --              | X                         | --                             | BrW          |
| HMW 151           | 431159   | 714908    | Champagne             | 1987           | 520.0                            | --                        | 129.0                            | --              | X                         | --                             | BrW          |
| HMW 152           | 431211   | 714841    | Annis                 | 1987           | 530.0                            | --                        | 179.0                            | --              | X                         | --                             | BrW          |
| HMW 153           | 430806   | 714537    | Gregoire              | 1988           | 670.0                            | --                        | 39.0                             | --              | X                         | --                             | BrW          |
| HMW 154           | 431033   | 714545    | Hardy                 | 1987           | 450.0                            | --                        | 171.0                            | --              | X                         | --                             | BrW          |
| HMW 155           | 431011   | 715043    | Country Village Homes | 1987           | 520.0                            | --                        | 281.0                            | --              | X                         | --                             | BrW          |
| HMW 156           | 430842   | 715209    | Kowalski              | 1987           | 580.0                            | --                        | 271.0                            | --              | X                         | --                             | BrW          |
| HMW 157           | 430900   | 715236    | Kimball               | 1987           | 660.0                            | --                        | 129.0                            | --              | X                         | --                             | BrW          |
| HMW 158           | 430919   | 714635    | Hodgdon               | 1987           | 600.0                            | --                        | 140.0                            | --              | X                         | --                             | BrW          |
| HMW 159           | 431124   | 714639    | Samaha                | 1988           | 560.0                            | --                        | 126.0                            | --              | X                         | --                             | BrW          |
| HMW 160           | 430946   | 714504    | Norm Beaudry Constr   | 1988           | 590.0                            | --                        | 79.0                             | --              | X                         | --                             | BrW          |
| HMW 161           | 431108   | 714541    | Dunning Home Group    | 1988           | 480.0                            | --                        | 175.0                            | --              | X                         | --                             | BrW          |
| HMW 162           | 431112   | 714719    | Goss                  | 1988           | 560.0                            | --                        | 81.0                             | --              | X                         | --                             | BrW          |
| HMW 163           | 431101   | 715016    | Proulx                | 1988           | 550.0                            | --                        | 92.0                             | --              | X                         | --                             | BrW          |
| HMW 164           | 431100   | 715018    | Proulx                | 1988           | 550.0                            | --                        | 122.0                            | --              | X                         | --                             | BrW          |
| HMW 165           | 431008   | 714949    | Krantz Jr.            | 1988           | 780.0                            | --                        | 80.0                             | --              | X                         | --                             | BrW          |
| HMW 167           | 430956   | 714616    |                       | 1988           | 400.0                            | --                        | 2.0 27.0                         | P               | S                         | 29.0                           | TH           |

Herrimack County

Henniker--Continued

Hill

1987 1260.0 -- 80.0 -- X -- BrW

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------|
| HMW 142           | --                       | ----            | H                    | 5.0                     | --              | --                               | 1.0                    |         |
| HMW 143           | 40.0                     | 01-22-87        | H                    | 20.0                    | --              | --                               | 1.0                    |         |
| HMW 144           | --                       | ----            | H                    | 1.0                     | --              | --                               | .5                     |         |
| HMW 145           | --                       | ----            | H                    | 2.0                     | --              | --                               | .5                     |         |
| HMW 146           | --                       | ----            | H                    | 2.5                     | --              | --                               | .5                     |         |
| HMW 147           | --                       | ----            | H                    | 7.0                     | --              | --                               | .5                     |         |
| HMW 148           | --                       | ----            | H                    | 6.0                     | --              | --                               | 1.0                    |         |
| HMW 150           | --                       | ----            | H                    | 15.0                    | --              | --                               | 1.0                    |         |
| HMW 151           | --                       | ----            | H                    | 15.0                    | --              | --                               | 1.0                    |         |
| HMW 152           | --                       | ----            | H                    | 4.5                     | --              | --                               | 1.0                    |         |
| HMW 153           | 1.0                      | 01-07-88        | H                    | 10.0                    | --              | --                               | --                     |         |
| HMW 154           | 30.0                     | 09-08-87        | H                    | 3.0                     | --              | --                               | --                     |         |
| HMW 155           | --                       | ----            | H                    | 4.0                     | --              | --                               | --                     |         |
| HMW 156           | --                       | ----            | H                    | .3                      | --              | --                               | 1.0                    |         |
| HMW 157           | --                       | ----            | H                    | 5.0                     | --              | --                               | .3                     |         |
| HMW 158           | --                       | ----            | H                    | 3.0                     | --              | --                               | .3                     |         |
| HMW 159           | --                       | ----            | H                    | 3.0                     | --              | --                               | .8                     |         |
| HMW 160           | --                       | ----            | H                    | 1.7                     | --              | --                               | 2.0                    |         |
| HMW 161           | 30.0                     | 06-08-88        | H                    | 3.0                     | --              | --                               | --                     |         |
| HMW 162           | 20.0                     | 06-03-88        | H                    | 3.5                     | --              | --                               | --                     |         |
| HMW 163           | --                       | ----            | H                    | 2.0                     | --              | --                               | --                     |         |
| HMW 164           | 30.0                     | 06-07-88        | H                    | 20.0                    | --              | --                               | --                     |         |
| HMW 165           | 50.0                     | 06-03-88        | H                    | 5.5                     | --              | --                               | --                     | USGS72  |
| HMW 167           | 10.8                     | 06-22-89        | T                    | --                      | --              | --                               | --                     |         |

Herrimack County

Henniker--Continued

Hill

HMW 10 -- -- -- -- H 3.0 -- -- .5



| Local site number | Latitude | Longitude | Owner or user     | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open section or finish section (feet) | Type of well |
|-------------------|----------|-----------|-------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|
| HUA 1             | 431119   | 714004    |                   | 1991           | 487.0                            | --                        | --                               | --   | Bor          |
| HUA 2             | 431424   | 714038    |                   | 1991           | 385.0                            | --                        | --                               | --   | TH           |
| HUA 3             | 431312   | 713940    |                   | 1991           | 380.0                            | --                        | --                               | --   | Bor          |
| HUA 4             | 431151   | 714446    |                   | 1991           | 600.0                            | --                        | --                               | --   | Bor          |
| HUA 5             | 431230   | 714001    |                   | 1991           | 395.0                            | --                        | --                               | --   | Bor          |
| HUA 7             | 431204   | 714407    |                   | 1991           | 370.0                            | --                        | --                               | --   | TH           |
| HUA 157           | 431258   | 714338    |                   | --             | 0.0                              | --                        | --                               | --   | TH           |
| HUA 159           | 431155   | 714209    |                   | --             | 0.0                              | --                        | --                               | --   | TH           |
| HUA 171           | 431347   | 714337    | Town of Hopkinton | --             | 410.0                            | --                        | 30.0                             | --   | TH           |
| HUA 177           | 431338   | 714608    | Town of Hopkinton | --             | 440.0                            | --                        | 30.0                             | --   | TH           |
| HUA 177           | 431338   | 714608    |                   | --             | 440.0                            | --                        | --                               | --   | TH           |
| HUA 180           | 431348   | 714554    | Town of Hopkinton | --             | 430.0                            | --                        | 35.0                             | --   | TH           |
| HUA 184           | 431210   | 714603    | Town of Hopkinton | --             | 440.0                            | --                        | --                               | --   | TH           |
| HUA 187           | 431355   | 714550    | Town of Hopkinton | --             | 460.0                            | --                        | 34.0                             | --   | TH           |
| HUB 1             | 431154   | 714309    | NH PUB WKS HWY    | --             | 420.0                            | --                        | --                               | --   | TH           |
| HUB 2             | 431155   | 714305    | NH PUB WKS HWY    | --             | 400.0                            | --                        | --                               | --   | TH           |
| HUB 3             | 431155   | 714303    | NH PUB WKS HWY    | --             | 400.0                            | --                        | --                               | --   | TH           |
| HUB 4             | 431043   | 714509    | NH PUB WKS HWY    | --             | 400.0                            | --                        | --                               | --   | TH           |
| HUB 5             | 431044   | 714508    | NH PUB WKS HWY    | --             | 390.0                            | --                        | --                               | --   | TH           |
| HUB 6             | 431043   | 714506    | NH PUB WKS HWY    | --             | 394.0                            | --                        | --                               | --   | TH           |
| HUB 7             | 431044   | 714635    | NH PUB WKS HWY    | --             | 430.0                            | --                        | --                               | --   | TH           |
| HUB 8             | 431044   | 714243    | NH PUB WKS HWY    | --             | 380.0                            | --                        | --                               | --   | TH           |
| HUB 9             | 431045   | 714239    | NH PUB WKS HWY    | --             | 380.0                            | --                        | --                               | --   | TH           |
| HUB 10            | 431001   | 714226    | NH PUB WKS HWY    | --             | 390.0                            | --                        | --                               | --   | TH           |
| HUB 11            | 431042   | 714350    | NH PUB WKS HWY    | --             | 370.0                            | --                        | --                               | --   | TH           |
| HUB 12            | 431444   | 714120    | NH PUB WKS HWY    | --             | 340.0                            | --                        | --                               | --   | TH           |
| HUB 13            | 431444   | 714121    | NH PUB WKS HWY    | --             | 354.0                            | --                        | --                               | --   | TH           |
| HUB 14            | 431059   | 713859    | NH PUB WKS HWY    | --             | 580.0                            | --                        | --                               | --   | TH           |
| HUB 15            | 431058   | 714030    | NH PUB WKS HWY    | --             | 540.0                            | --                        | --                               | --   | TH           |

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                  |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|--------------------------|
| HUA 1             | --                       | -----           | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| HUA 2             | --                       | -----           | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| HUA 3             | --                       | -----           | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| HUA 4             | --                       | -----           | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| HUA 5             | --                       | -----           | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| HUA 7             | --                       | -----           | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| HUA 157           | --                       | -----           | T                    | 9.0                     | --              | --                               | --                     |                          |
| HUA 159           | --                       | -----           | T                    | 15.0                    | --              | --                               | --                     |                          |
| HUA 171           | --                       | -----           | T                    | 40.0                    | --              | --                               | --                     |                          |
| HUA 177           | 2.0                      | 10-28-76        | T                    | 3.0                     | --              | --                               | --                     |                          |
| HUA 177           | 2.0                      | 10-28-76        | T                    | 3.0                     | --              | --                               | --                     |                          |
| HUA 180           | 11.0                     | 11-02-76        | T                    | 60.0                    | --              | --                               | --                     |                          |
| HUA 184           | 6.0                      | 12-03-76        | T                    | 3.0                     | --              | --                               | --                     | USGS;2                   |
| HUA 187           | --                       | -----           | T                    | 70.0                    | --              | --                               | --                     |                          |
| HUB 1             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 089/114 boring 1  |
| HUB 2             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 089/114 boring 9  |
| HUB 3             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 089/114 boring 2  |
| HUB 4             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 049/096 boring 2  |
| HUB 5             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 049/096 boring 6  |
| HUB 6             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 049/096 boring 9  |
| HUB 7             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 056/093 boring 3  |
| HUB 8             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 086/084 boring 1  |
| HUB 9             | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 086/084 boring 11 |
| HUB 10            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 085/068 boring 1  |
| HUB 11            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 071/089 boring 1  |
| HUB 12            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 134/166 boring 3  |
| HUB 13            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 134/166 boring 6  |
| HUB 14            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 048/070 boring 15 |
| HUB 15            | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 123/077 boring 6  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user     | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of open well section (feet) | Type of well |
|-------------------|----------|-----------|-------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|---|--------------|
| HUB 16            | 431311   | 714328    | NH PUB WKS HHY    | --             | 370.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 17            | 431304   | 714319    | NH PUB WKS HHY    | --             | 370.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 18            | 431302   | 714318    | NH PUB WKS HHY    | --             | 360.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 19            | 431100   | 715924    | NH PUB WKS HHY    | --             | 510.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 20            | 431101   | 713923    | NH PUB WKS HHY    | --             | 500.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 21            | 431302   | 714321    | NH PUB WKS HHY    | --             | 360.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 22            | 431304   | 714324    | NH PUB WKS HHY    | --             | 370.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 23            | 431306   | 714326    | NH PUB WKS HHY    | --             | 380.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 24            | 431212   | 714230    | NH PUB WKS HHY    | --             | 380.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 25            | 431208   | 714230    | NH PUB WKS HHY    | --             | 390.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 26            | 431054   | 714119    | NH PUB WKS HHY    | --             | 520.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 27            | 431050   | 714120    | NH PUB WKS HHY    | --             | 510.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 28            | 431042   | 714127    | NH PUB WKS HHY    | --             | 470.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 29            | 431049   | 714110    | NH PUB WKS HHY    | --             | 520.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 30            | 431310   | 714331    | NH PUB WKS HHY    | --             | 380.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 31            | 431412   | 714130    | NH PUB WKS HHY    | --             | 350.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 32            | 431412   | 714127    | NH PUB WKS HHY    | --             | 350.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 33            | 431055   | 714505    | NH PUB WKS HHY    | --             | 390.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 34            | 431054   | 714508    | NH PUB WKS HHY    | --             | 390.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 40            | 431350   | 714331    | Town of Hopkinton | --             | 410.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 41            | 431330   | 714256    | Town of Hopkinton | --             | 370.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 42            | 431320   | 714207    | Town of Hopkinton | --             | 460.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 43            | 431321   | 714251    | Town of Hopkinton | --             | 370.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 44            | 431311   | 714251    | Town of Hopkinton | --             | 410.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 70            | 431108   | 714448    | Army Corps        | --             | 380.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 71            | 431113   | 714409    | Army Corps        | --             | 390.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 72            | 431115   | 714451    | Army Corps        | --             | 380.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 73            | 431120   | 714456    | Army Corps        | --             | 390.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 74            | 431110   | 714425    | Army Corps        | --             | 410.0                            | --                        | --                               | --              | --                     | --  | TH           |
| HUB 75            | 431119   | 714456    | Army Corps        | --             | 430.0                            | --                        | --                               | --              | --                     | --  | TH           |

Merrimack County

Hopkinton--Continued

|        |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|
| HUB 16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 73 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 74 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |
| HUB 75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | TH |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maxi- num well yield (gal/ min) | Draw- down (feet) | Spe- cific capac- ity (gal/ min) /ft) | Pump- ing peri- od (hours) | Remarks                  |
|-------------------|--------------------------|-----------------|----------------------|---------------------------------|-------------------|---------------------------------------|----------------------------|--------------------------|
| HUB 16            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 091/143 boring 7  |
| HUB 17            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 093/138 boring 15 |
| HUB 18            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 093/138 boring 2  |
| HUB 19            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 141/073 boring 19 |
| HUB 20            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 141/073 boring 6  |
| HUB 21            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 092/138 boring 2  |
| HUB 22            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 092/138 boring 8  |
| HUB 23            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 091/141 boring 5  |
| HUB 24            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 099/114 boring 10 |
| HUB 25            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 099/114 boring 2  |
| HUB 26            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 111/082 boring 4  |
| HUB 27            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 110/081 boring 5  |
| HUB 28            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 108/078 boring 10 |
| HUB 29            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 113/079 boring 7  |
| HUB 30            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 090/143 boring 4  |
| HUB 31            | 10.0                     | 10-***78        | T                    | --                              | --                | --                                    | --                         | Bridge 130/154 boring 15 |
| HUB 32            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 130/154 boring 2  |
| HUB 33            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 049/098 boring 38 |
| HUB 34            | --                       | -----           | T                    | --                              | --                | --                                    | --                         | Bridge 049/098 boring 88 |
| HUB 40            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 41            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 42            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 43            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 44            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 70            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 71            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 72            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 73            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 74            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |
| HUB 75            | --                       | -----           | T                    | --                              | --                | --                                    | --                         |                          |

Merrimack County

Hopkinton--Continued

|        |      |          |   |    |    |    |    |                          |
|--------|------|----------|---|----|----|----|----|--------------------------|
| HUB 16 | --   | -----    | T | -- | -- | -- | -- | Bridge 091/143 boring 7  |
| HUB 17 | --   | -----    | T | -- | -- | -- | -- | Bridge 093/138 boring 15 |
| HUB 18 | --   | -----    | T | -- | -- | -- | -- | Bridge 093/138 boring 2  |
| HUB 19 | --   | -----    | T | -- | -- | -- | -- | Bridge 141/073 boring 19 |
| HUB 20 | --   | -----    | T | -- | -- | -- | -- | Bridge 141/073 boring 6  |
| HUB 21 | --   | -----    | T | -- | -- | -- | -- | Bridge 092/138 boring 2  |
| HUB 22 | --   | -----    | T | -- | -- | -- | -- | Bridge 092/138 boring 8  |
| HUB 23 | --   | -----    | T | -- | -- | -- | -- | Bridge 091/141 boring 5  |
| HUB 24 | --   | -----    | T | -- | -- | -- | -- | Bridge 099/114 boring 10 |
| HUB 25 | --   | -----    | T | -- | -- | -- | -- | Bridge 099/114 boring 2  |
| HUB 26 | --   | -----    | T | -- | -- | -- | -- | Bridge 111/082 boring 4  |
| HUB 27 | --   | -----    | T | -- | -- | -- | -- | Bridge 110/081 boring 5  |
| HUB 28 | --   | -----    | T | -- | -- | -- | -- | Bridge 108/078 boring 10 |
| HUB 29 | --   | -----    | T | -- | -- | -- | -- | Bridge 113/079 boring 7  |
| HUB 30 | --   | -----    | T | -- | -- | -- | -- | Bridge 090/143 boring 4  |
| HUB 31 | 10.0 | 10-***78 | T | -- | -- | -- | -- | Bridge 130/154 boring 15 |
| HUB 32 | --   | -----    | T | -- | -- | -- | -- | Bridge 130/154 boring 2  |
| HUB 33 | --   | -----    | T | -- | -- | -- | -- | Bridge 049/098 boring 38 |
| HUB 34 | --   | -----    | T | -- | -- | -- | -- | Bridge 049/098 boring 88 |
| HUB 40 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 41 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 42 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 43 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 44 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 70 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 71 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 72 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 73 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 74 | --   | -----    | T | -- | -- | -- | -- |                          |
| HUB 75 | --   | -----    | T | -- | -- | -- | -- |                          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user     | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or spring | Depth to bottom of open well (feet) |
|-------------------|----------|-----------|-------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------------------------|-------------------------------------|
| HUB 76            | 431115   | 714335    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 77            | 431127   | 714339    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 78            | 431125   | 714400    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 79            | 431110   | 714440    | Army Corps        | --             | 380.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 80            | 431120   | 714434    | Army Corps        | --             | 470.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 83            | 431143   | 714228    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 84            | 431138   | 714215    | Army Corps        | --             | 410.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 85            | 431146   | 714250    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 86            | 431146   | 714240    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 87            | 431119   | 714344    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 88            | 431146   | 714245    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 89            | 431111   | 714450    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 151           | 431257   | 714238    | Town of Hopkinton | --             | 460.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 152           | 431417   | 714316    | Town of Hopkinton | --             | 370.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 153           | 431420   | 714309    | Town of Hopkinton | --             | 370.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 154           | 431414   | 714325    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 155           | 431411   | 714321    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 156           | 431313   | 714346    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 158           | 431256   | 714341    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 160           | 431159   | 714213    | Town of Hopkinton | --             | 410.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 162           | 431336   | 714223    | Town of Hopkinton | --             | 360.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 163           | 431300   | 714335    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 164           | 431233   | 714417    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 165           | 431227   | 714428    | Town of Hopkinton | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 166           | 431234   | 714425    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 167           | 431232   | 714425    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 168           | 431330   | 714338    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 169           | 431329   | 714347    | Town of Hopkinton | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 170           | 431345   | 714349    | Town of Hopkinton | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |
| HUB 172           | 431350   | 714337    | Town of Hopkinton | --             | 400.0                            | --                        | --                               | --              | --                               | --                                  |

Merrimack County

Hopkinton--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity (gal/ft) | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|--------------|----------------------|------------------------------|-----------------|----------------------------|------------------------|---------|
| HUB 76            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 77            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 78            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 79            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 80            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 83            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 84            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 85            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 86            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 87            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 88            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 89            | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 151           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 152           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 153           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 154           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 155           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 156           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 158           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 160           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 162           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 163           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 164           | 09-18-73                    | 11.0         | T                    | --                           | --              | --                         | --                     |         |
| HUB 165           | 09-18-73                    | 11.0         | T                    | --                           | --              | --                         | --                     |         |
| HUB 166           | 09-19-73                    | 12.5         | T                    | --                           | --              | --                         | --                     |         |
| HUB 167           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 168           | 07-21-73                    | 6.5          | T                    | --                           | --              | --                         | --                     |         |
| HUB 169           | 09-23-73                    | 19.0         | T                    | --                           | --              | --                         | --                     |         |
| HUB 170           | -----                       | --           | T                    | --                           | --              | --                         | --                     |         |
| HUB 172           | 10-01-73                    | 15.0         | T                    | --                           | --              | --                         | --                     |         |

Merrimack County

Hopkinton--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number    | Latitude | Longitude | Owner or user     | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or open well | Depth to bottom of well (feet) | Type of well |                                |
|----------------------|----------|-----------|-------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|-------------------------------------|--------------------------------|--------------|--------------------------------|
|                      |          |           |                   |                |                                  |                           |                                  |                 |                                     |                                |              | Depth to bottom of well (feet) |
| Merrimack County     |          |           |                   |                |                                  |                           |                                  |                 |                                     |                                |              |                                |
| Hopkinton--Continued |          |           |                   |                |                                  |                           |                                  |                 |                                     |                                |              |                                |
| HUB 173              | 431348   | 714342    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 174              | 431348   | 714339    | Town of Hopkinton | --             | 390.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 178              | 431337   | 714611    | Town of Hopkinton | --             | 430.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 179              | 431332   | 714559    | Town of Hopkinton | --             | 440.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 181              | 431350   | 714545    | Town of Hopkinton | --             | 460.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 182              | 431320   | 714544    | Town of Hopkinton | --             | 660.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 183              | 431220   | 714558    | Town of Hopkinton | --             | 460.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 185              | 431227   | 714557    | Town of Hopkinton | --             | 470.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 186              | 431226   | 714603    | Town of Hopkinton | --             | 470.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 187              | 431123   | 714534    | Army Corps        | --             | 400.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 3                | 431323   | 714140    | Seizer            | 1953           | 690.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 5                | 431248   | 714138    | Brown, Lamson     | 1957           | 560.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 6                | 431258   | 714116    | Crathine          | 1960           | 790.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 7                | 431232   | 714127    | Lustrum, Lester   | 1961           | 580.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 8                | 431230   | 714125    | Belanger, Gus     | 1953           | 600.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 9                | 431111   | 714125    | Waters, Cidney    | 1960           | 630.0                            | --                        | 15.0                             | --              | --                                  | --                             | BrW          |                                |
| HUB 10               | 431052   | 714042    | Kimball, Cal      | 1960           | 570.0                            | --                        | 30.0                             | --              | --                                  | --                             | BrW          |                                |
| HUB 11               | 431207   | 713910    | Jessenman, Steve  | 1960           | 705.0                            | --                        | 93.0                             | --              | --                                  | --                             | Cbl          |                                |
| HUB 12               | 431025   | 714251    | Bennett           | 1957           | 430.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 13               | 431220   | 714102    | Bernier           | 1957           | 685.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 15               | 431139   | 714042    | Chandler          | 1957           | 500.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 16               | 431124   | 713950    | Reed, Robert      | 1962           | 510.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 17               | 431201   | 714235    | Davis, Leonard    | 1963           | 385.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 18               | 431123   | 714017    | Gilkins, Robert   | 1900           | 515.0                            | --                        | 78.0                             | --              | --                                  | --                             | BrW          |                                |
| HUB 19               | 431020   | 714251    | Jones, L.L.       | 1958           | 430.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 20               | 431151   | 714250    | Manger            | 1959           | 380.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 21               | 431120   | 714035    | Perkins, Ernest   | 1960           | 530.0                            | --                        | 22.0                             | --              | --                                  | --                             | BrW          |                                |
| HUB 22               | 431116   | 714034    | Horster, Harold   | 1962           | 535.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 23               | 431131   | 714330    | Tucker, Melvin    | 1953           | 475.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |
| HUB 24               | 431415   | 714141    | Bohemen, Ashton   | 1963           | 365.0                            | --                        | --                               | --              | --                                  | --                             | BrW          |                                |

Appendix A.--Description of wells and borings--Continued

| Local site number    | Water Level Depth (feet) | Date (mm-od-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/(ft)) | Pumping period (hours) | Remarks |
|----------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|------------------------------------|------------------------|---------|
|                      |                          |                 |                      |                              |                 |                                    |                        |         |
| Merrimack County     |                          |                 |                      |                              |                 |                                    |                        |         |
| Hopkinton--Continued |                          |                 |                      |                              |                 |                                    |                        |         |
| HUB 173              | 16.0                     | 10-02-73        | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 174              | 18.0                     | 10-02-73        | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 178              | --                       | -----           | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 179              | --                       | -----           | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 181              | --                       | -----           | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 182              | --                       | -----           | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 183              | 14.0                     | 12-03-76        | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 185              | 23.2                     | 11-04-76        | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 186              | 25.0                     | 11-05-76        | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 187              | --                       | -----           | T                    | --                           | --              | --                                 | --                     | Bedrock |
| HUB 3                | --                       | -----           | H                    | 3.0                          | --              | --                                 | --                     | Bedrock |
| HUB 5                | --                       | -----           | H                    | 25.0                         | --              | --                                 | --                     | Bedrock |
| HUB 6                | 55.0                     | -----60         | H                    | 7.0                          | --              | --                                 | --                     | Bedrock |
| HUB 7                | 35.0                     | -----61         | H                    | 25.0                         | --              | --                                 | --                     | Bedrock |
| HUB 8                | --                       | -----           | H                    | 4.0                          | --              | --                                 | --                     | Bedrock |
| HUB 9                | 10.0                     | 10------60      | H                    | .8                           | --              | --                                 | --                     | Bedrock |
| HUB 10               | 15.0                     | 08------60      | H                    | 3.0                          | --              | --                                 | --                     | Bedrock |
| HUB 11               | --                       | -----           | H                    | 5.0                          | --              | --                                 | --                     | Bedrock |
| HUB 12               | --                       | -----           | H                    | 8.0                          | --              | --                                 | --                     | Bedrock |
| HUB 13               | --                       | -----           | H                    | 5.0                          | --              | --                                 | --                     | Bedrock |
| HUB 15               | --                       | -----           | H                    | 10.0                         | --              | --                                 | --                     | Bedrock |
| HUB 16               | --                       | -----           | H                    | 2.5                          | --              | --                                 | --                     | Bedrock |
| HUB 17               | --                       | -----           | H                    | 3.0                          | --              | --                                 | --                     | Bedrock |
| HUB 18               | 10.0                     | -----00         | H                    | 15.0                         | --              | --                                 | --                     | Bedrock |
| HUB 19               | --                       | -----           | H                    | 4.0                          | --              | --                                 | --                     | Bedrock |
| HUB 20               | --                       | -----           | H                    | 10.0                         | --              | --                                 | --                     | Bedrock |
| HUB 21               | --                       | -----           | H                    | 4.0                          | --              | --                                 | --                     | Bedrock |
| HUB 22               | --                       | -----           | H                    | 3.5                          | --              | --                                 | --                     | Bedrock |
| HUB 23               | --                       | -----           | H                    | 15.0                         | --              | --                                 | --                     | Bedrock |
| HUB 24               | 14.0                     | -----63         | H                    | 20.0                         | --              | --                                 | --                     | Bedrock |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| HUM 25            | 431132   | 714326    | Grassiano, Thomas   | 1962           | 485.0                            | --                        | --                               | --              | --             | --                                     | BrW          |
| HUM 26            | 431153   | 714122    | Messick, William    | 1956           | 730.0                            | --                        | 30.0                             | --              | --             | --                                     | BrW          |
| HUM 27            | 431148   | 714022    | Town of Hopkinton   | --             | 450.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 28            | 431151   | 714024    | Town of Hopkinton   | --             | 420.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 29            | 431155   | 714023    | Town of Hopkinton   | --             | 410.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 30            | 431201   | 714017    | Town of Hopkinton   | --             | 410.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 31            | 431205   | 714018    | Town of Hopkinton   | 1961           | 420.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 32            | 431201   | 714007    | Town of Hopkinton   | --             | 470.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 34            | 431126   | 713956    | Town of Hopkinton   | --             | 490.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 35            | 431143   | 714035    | Town of Hopkinton   | --             | 450.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 39            | 431119   | 713904    | Stewart, A.         | --             | 560.0                            | --                        | --                               | --              | --             | --                                     | BrW          |
| HUM 40            | 431148   | 714043    | Wood, M.            | --             | 550.0                            | --                        | --                               | --              | --             | --                                     | BrW          |
| HUM 42            | 431235   | 714227    | Graziano, G.        | --             | 430.0                            | --                        | --                               | --              | --             | --                                     | BrW          |
| HUM 43            | 431232   | 714227    | Myron, P.           | --             | 430.0                            | --                        | --                               | --              | --             | --                                     | BrW          |
| HUM 44            | 431308   | 714330    | Fisher              | --             | 390.0                            | --                        | --                               | --              | --             | --                                     | BrW          |
| HUM 47            | 431511   | 714055    | NH DEPT. ENV. SERV. | --             | 380.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 48            | 431521   | 714043    | NH DEPT. ENV. SERV. | --             | 380.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 50            | 431316   | 714311    | NH DEPT. ENV. SERV. | --             | 380.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 51            | 431319   | 714301    | NH DEPT. ENV. SERV. | --             | 370.0                            | --                        | --                               | --              | --             | --                                     | --           |
| HUM 52            | 431036   | 714428    | Astles              | 1986           | 490.0                            | --                        | 121.0                            | --              | X              | --                                     | BrW          |
| HUM 53            | 431048   | 714031    | Bishop              | 1986           | 600.0                            | --                        | 59.0                             | --              | X              | --                                     | BrW          |
| HUM 54            | 431219   | 714440    | Caverly             | 1986           | 410.0                            | --                        | 62.0                             | --              | X              | --                                     | BrW          |
| HUM 55            | 431218   | 714438    | Biss                | 1986           | 410.0                            | --                        | 64.0                             | --              | X              | --                                     | BrW          |
| HUM 56            | 431218   | 714442    | Chapman             | 1986           | 420.0                            | --                        | 62.0                             | --              | X              | --                                     | BrW          |
| HUM 57            | 431046   | 713849    | Greenwood           | 1986           | 580.0                            | --                        | 90.0                             | --              | X              | --                                     | BrW          |
| HUM 62            | 431225   | 713841    | Samaha              | 1986           | 710.0                            | --                        | 20.0                             | --              | X              | --                                     | BrW          |
| HUM 63            | 431135   | 713928    | Brooks              | 1986           | 580.0                            | --                        | 80.0                             | --              | X              | --                                     | BrW          |
| HUM 66            | 431238   | 714548    | White               | 1986           | 460.0                            | --                        | 19.0                             | --              | X              | --                                     | BrW          |
| HUM 67            | 431039   | 714429    | Astles              | 1986           | 490.0                            | --                        | 121.0                            | --              | X              | --                                     | BrW          |
| HUM 68            | 431038   | 714418    | Joyce               | 1986           | 560.0                            | --                        | 52.0                             | --              | X              | --                                     | BrW          |

Merrimack County

Hopkinton--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity [(gal/min)/(ft)] | Pumping period (hours) | Remarks               |
|-------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|------------------------------------|------------------------|-----------------------|
| HUM 25            | 15.0                     | -----62         | H                    | 8.0                          | --              | --                                 | --                     | Bedrock               |
| HUM 26            | --                       | -----           | H                    | 8.0                          | --              | --                                 | --                     | Bedrock               |
| HUM 27            | --                       | -----           | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 28            | --                       | -----           | T                    | 20.0                         | --              | --                                 | --                     | --                    |
| HUM 29            | --                       | -----           | T                    | 40.0                         | --              | --                                 | --                     | --                    |
| HUM 30            | --                       | -----           | T                    | 30.0                         | --              | --                                 | --                     | --                    |
| HUM 31            | --                       | 10-01-61        | P                    | 68.0                         | 2.0             | --                                 | 24.0                   | Municipal supply well |
| HUM 32            | --                       | -----           | T                    | 35.0                         | --              | --                                 | --                     | --                    |
| HUM 34            | --                       | -----           | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 35            | --                       | -----           | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 39            | --                       | -----           | H                    | 6.0                          | --              | --                                 | --                     | --                    |
| HUM 40            | --                       | -----           | H                    | 2.0                          | --              | --                                 | --                     | --                    |
| HUM 42            | --                       | -----           | H                    | 60.0                         | --              | --                                 | --                     | --                    |
| HUM 43            | --                       | -----           | H                    | 5.0                          | --              | --                                 | --                     | --                    |
| HUM 44            | 4.0                      | 06-23-82        | H                    | 25.0                         | --              | --                                 | --                     | --                    |
| HUM 47            | 31.5                     | 01-16-87        | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 48            | 19.0                     | 01-16-87        | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 50            | 8.0                      | 02-03-86        | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 51            | 9.3                      | 02-03-86        | T                    | --                           | --              | --                                 | --                     | --                    |
| HUM 52            | --                       | -----           | H                    | 5.0                          | --              | --                                 | .3                     | --                    |
| HUM 53            | --                       | -----           | H                    | 2.0                          | --              | --                                 | .5                     | --                    |
| HUM 54            | 17.0                     | 10-23-86        | H                    | 30.0                         | --              | --                                 | 1.5                    | --                    |
| HUM 55            | 16.0                     | 10-23-86        | H                    | 30.0                         | --              | --                                 | 1.5                    | --                    |
| HUM 56            | 22.0                     | 10-22-86        | H                    | 12.0                         | --              | --                                 | 1.5                    | --                    |
| HUM 57            | 20.0                     | 11-14-86        | H                    | 50.0                         | --              | --                                 | .5                     | --                    |
| HUM 62            | --                       | -----           | H                    | 1.8                          | --              | --                                 | .5                     | --                    |
| HUM 63            | 15.0                     | 09-09-86        | H                    | 10.0                         | --              | --                                 | .5                     | --                    |
| HUM 66            | --                       | -----           | H                    | 3.0                          | --              | --                                 | 1.0                    | --                    |
| HUM 67            | --                       | -----           | H                    | 3.0                          | --              | --                                 | .5                     | --                    |
| HUM 68            | --                       | -----           | H                    | 2.0                          | --              | --                                 | .5                     | --                    |

Merrimack County

Hopkinton--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user      | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring | Type of well |
|-------------------|----------|-----------|--------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| HUM 69            | 431033   | 714419    | Krantz Builders    | 1986           | 570.0                            | --                        | 48.0                             | --              | X              | --   | BRW          |
| HUM 70            | 431030   | 714418    | Grenon             | 1986           | 570.0                            | --                        | 50.0                             | --              | X              | --   | BRW          |
| HUM 72            | 431101   | 714111    | Gilligan           | 1986           | 540.0                            | --                        | 59.0                             | --              | X              | --   | BRW          |
| HUM 73            | 431307   | 714528    | Dugan              | 1987           | 540.0                            | --                        | 78.0                             | --              | X              | --   | BRW          |
| HUM 74            | 431432   | 714259    | Dammann            | 1987           | 400.0                            | --                        | 50.0                             | --              | X              | --   | BRW          |
| HUM 75            | 431151   | 714008    | Windhurst          | 1987           | 450.0                            | --                        | 60.0                             | --              | X              | --   | BRW          |
| HUM 76            | 431219   | 714451    | Warner             | 1987           | 430.0                            | --                        | 25.0                             | --              | X              | --   | BRW          |
| HUM 77            | 431121   | 713924    | Dunning Home Group | 1987           | 580.0                            | --                        | 50.0                             | --              | X              | --   | BRW          |
| HUM 80            | 431324   | 714042    | Bohringer          | 1987           | 530.0                            | --                        | 146.0                            | --              | X              | --   | BRW          |
| HUM 81            | 431503   | 714044    | Miller             | 1987           | 365.0                            | --                        | 117.0                            | --              | X              | --   | BRW          |
| HUM 82            | 431159   | 713933    | Yee                | 1987           | 620.0                            | --                        | 20.0                             | --              | X              | --   | BRW          |
| HUM 84            | 431041   | 714426    | Lowry              | 1987           | 510.0                            | --                        | 124.0                            | --              | X              | --   | BRW          |
| HUM 85            | 431048   | 713843    | Smith              | 1987           | 580.0                            | --                        | 111.0                            | --              | X              | --   | BRW          |
| HUM 86            | 431418   | 714400    | Baily              | 1987           | 460.0                            | --                        | 37.0                             | --              | X              | --   | BRW          |
| HUM 87            | 431248   | 714558    | Davis              | 1987           | 460.0                            | --                        | 109.0                            | --              | X              | --   | BRW          |
| HUM 88            | 431245   | 714524    | Austin             | 1986           | 520.0                            | --                        | 19.0                             | --              | X              | --   | BRW          |
| HUM 89            | 431225   | 713837    | Grogan             | 1986           | 670.0                            | --                        | 35.0                             | --              | X              | --   | BRW          |
| HUM 90            | 431353   | 714217    | Nash               | 1987           | 360.0                            | --                        | 79.0                             | --              | X              | --   | BRW          |
| HUM 91            | 430905   | 714157    | French             | 1987           | 590.0                            | --                        | 40.0                             | --              | X              | --   | BRW          |
| HUM 94            | 431030   | 714035    | Copeland           | 1987           | 690.0                            | --                        | 20.0                             | --              | X              | --   | BRW          |
| HUM 95            | 431311   | 714528    | Carey              | 1987           | 530.0                            | --                        | 84.0                             | --              | X              | --   | BRW          |
| HUM 96            | 431030   | 714023    | Bernier            | 1987           | 750.0                            | --                        | 19.0                             | --              | X              | --   | BRW          |
| HUM 98            | 431219   | 714442    | Tansey             | 1987           | 410.0                            | --                        | 55.0                             | --              | X              | --   | BRW          |
| HUM 99            | 431033   | 714415    | Whiting            | 1987           | 580.0                            | --                        | 14.0                             | --              | X              | --   | BRW          |
| HUM 100           | 431039   | 714412    | Lajoie             | 1987           | 600.0                            | --                        | 17.0                             | --              | X              | --   | BRW          |
| HUM 101           | 431008   | 714132    | Dufield            | 1987           | 460.0                            | --                        | 24.0                             | --              | X              | --   | BRW          |
| HUM 102           | 431439   | 714129    | Wilson             | 1987           | 380.0                            | --                        | 75.0                             | --              | X              | --   | BRW          |
| HUM 104           | 431016   | 714419    | LafLame            | 1987           | 540.0                            | --                        | 70.0                             | --              | X              | --   | BRW          |
| HUM 105           | 431223   | 714108    | Marshall           | 1987           | 750.0                            | --                        | 210.0                            | --              | X              | --   | BRW          |
| HUM 106           | 431345   | 714219    | Richards           | 1988           | 360.0                            | --                        | 106.0                            | --              | X              | --   | BRW          |

Merrimack County

Hopkinton--Continued

|         |      |          |   |      |    |    |     |
|---------|------|----------|---|------|----|----|-----|
| HUM 69  | --   | ----     | H | 7.0  | -- | -- | .3  |
| HUM 70  | --   | ----     | H | 3.0  | -- | -- | .5  |
| HUM 72  | 18.0 | 10-20-86 | H | .5   | -- | -- | 1.0 |
| HUM 73  | --   | ----     | H | 4.0  | -- | -- | .5  |
| HUM 74  | --   | ----     | H | 7.0  | -- | -- | .5  |
| HUM 75  | 25.0 | 03-09-87 | H | 1.8  | -- | -- | .5  |
| HUM 76  | 35.0 | 05-22-87 | H | 2.0  | -- | -- | .5  |
| HUM 77  | --   | ----     | H | 15.0 | -- | -- | .5  |
| HUM 80  | --   | ----     | H | 4.0  | -- | -- | .5  |
| HUM 81  | --   | ----     | H | 6.0  | -- | -- | 1.0 |
| HUM 82  | --   | ----     | H | 8.0  | -- | -- | .3  |
| HUM 84  | --   | ----     | H | 5.0  | -- | -- | .3  |
| HUM 85  | 11.0 | 06-23-87 | H | 65.0 | -- | -- | 1.0 |
| HUM 86  | --   | ----     | H | 5.0  | -- | -- | .5  |
| HUM 87  | 40.0 | 06-25-87 | H | 30.0 | -- | -- | 1.0 |
| HUM 88  | 10.0 | 02-22-86 | H | 6.0  | -- | -- | 1.0 |
| HUM 89  | 14.0 | 09-16-86 | H | 12.0 | -- | -- | 1.5 |
| HUM 90  | --   | ----     | H | 3.0  | -- | -- | .8  |
| HUM 91  | --   | ----     | H | 20.0 | -- | -- | .5  |
| HUM 94  | --   | ----     | H | 50.0 | -- | -- | .5  |
| HUM 95  | --   | ----     | H | 2.0  | -- | -- | .5  |
| HUM 96  | --   | ----     | H | 25.0 | -- | -- | 1.0 |
| HUM 98  | 25.0 | 11-24-87 | H | 4.0  | -- | -- | --  |
| HUM 99  | 15.0 | 11-10-87 | H | 3.5  | -- | -- | --  |
| HUM 100 | 20.0 | 11-10-87 | H | 3.0  | -- | -- | --  |
| HUM 101 | 25.0 | 09-11-87 | H | 25.0 | -- | -- | --  |
| HUM 102 | 20.0 | 11-13-87 | H | 20.0 | -- | -- | --  |
| HUM 104 | --   | ----     | H | 12.0 | -- | -- | .3  |
| HUM 105 | --   | ----     | H | 50.0 | -- | -- | .8  |
| HUM 106 | --   | ----     | H | 6.0  | -- | -- | .8  |

Hopkinton--Continued

Merrimack County

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/ft) /ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|---------|
|-------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|---------|

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or | Depth to bottom of well (feet) | Type of well or spring |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---------------------------|--------------------------------|------------------------|
| HUM 107           | 431134   | 714056    | Foster                  | 1988           | 500.0                            | --                        | 80.0                             | --              | X                         | --                             | BrW                    |
| HUM 108           | 431428   | 714223    | Houser                  | 1988           | 450.0                            | --                        | 70.0                             | --              | X                         | --                             | BrW                    |
| HUM 109           | 431128   | 714326    | Tucker                  | 1988           | 460.0                            | --                        | 14.0                             | --              | X                         | --                             | BrW                    |
| HUM 110           | 431128   | 714326    | Tucker                  | 1988           | 460.0                            | --                        | 16.0                             | --              | X                         | --                             | BrW                    |
| HUM 111           | 431248   | 714550    | Dufault                 | 1988           | 460.0                            | --                        | 21.0                             | --              | X                         | --                             | BrW                    |
| HUM 112           | 431121   | 714017    | Harold Martin Elem Scho | 1988           | 510.0                            | --                        | 106.0                            | --              | X                         | --                             | BrW                    |
| HUM 113           | 431031   | 714419    | Krantz Builders Inc.    | 1988           | 570.0                            | --                        | 109.0                            | --              | X                         | --                             | BrW                    |
| HUM 114           | 430922   | 714010    | Poor                    | 1988           | 500.0                            | --                        | 18.0                             | --              | X                         | --                             | BrW                    |
| HUM 115           | 431030   | 714413    | McGuire & R. Schoch     | 1988           | 580.0                            | --                        | 13.0                             | --              | X                         | --                             | BrW                    |
| HUM 116           | 431506   | 714014    | Bernier                 | 1988           | 365.0                            | --                        | 67.0                             | --              | X                         | --                             | BrW                    |
| HUM 118           | 431350   | 714210    | Silver                  | 1981           | 370.0                            | --                        | 80.0                             | --              | X                         | --                             | BrW                    |
| HUM 119           | 431241   | 714550    | Meacedo                 | 1977           | 660.0                            | --                        | 61.0                             | --              | X                         | --                             | BrW                    |
| HUM 121           | 431043   | 714043    | Hassum                  | 1988           | 610.0                            | --                        | 39.0                             | --              | X                         | --                             | BrW                    |
| HUM 122           | 431050   | 714031    | Miller                  | 1984           | 590.0                            | --                        | 62.0                             | --              | X                         | --                             | BrW                    |
| HUM 123           | 431215   | 714533    | Schoch                  | 1984           | 460.0                            | --                        | 97.0                             | --              | X                         | --                             | BrW                    |
| HUM 125           | 430935   | 714127    | Borden                  | 1984           | 450.0                            | --                        | 100.0                            | --              | X                         | --                             | BrW                    |
| HUM 126           | 431224   | 713954    | Bell                    | 1984           | 430.0                            | --                        | 73.0                             | --              | X                         | --                             | BrW                    |
| HUM 127           | 431012   | 714432    | Billingham              | 1984           | 560.0                            | --                        | 70.0                             | --              | X                         | --                             | BrW                    |
| HUM 128           | 430915   | 714009    | Holmes                  | 1984           | 490.0                            | --                        | 20.0                             | --              | X                         | --                             | BrW                    |
| HUM 129           | 431300   | 714347    | Wilkins                 | 1984           | 385.0                            | --                        | 72.0                             | --              | X                         | --                             | BrW                    |
| HUM 130           | 431218   | 714106    | Hanson                  | 1984           | 690.0                            | --                        | 193.0                            | --              | X                         | --                             | BrW                    |
| HUM 133           | 431118   | 714116    | Gross                   | 1985           | 650.0                            | --                        | 100.0                            | --              | X                         | --                             | BrW                    |
| HUM 134           | 431118   | 714116    | Gross                   | 1985           | 650.0                            | --                        | 60.0                             | --              | X                         | --                             | BrW                    |
| HUM 135           | 431118   | 714119    | Gross                   | 1985           | 650.0                            | --                        | 50.0                             | --              | X                         | --                             | BrW                    |
| HUM 136           | 431344   | 714214    | --                      | 1985           | 370.0                            | --                        | 109.0                            | --              | X                         | --                             | BrW                    |
| HUM 139           | 431352   | 714212    | Catavello               | 1985           | 360.0                            | --                        | 114.0                            | --              | X                         | --                             | BrW                    |
| HUM 140           | 431056   | 713901    | Ross                    | 1985           | 570.0                            | --                        | 49.0                             | --              | X                         | --                             | BrW                    |
| HUM 141           | 431223   | 714112    | Currier                 | 1985           | 700.0                            | --                        | 190.0                            | --              | X                         | --                             | BrW                    |
| HUM 142           | 431345   | 714009    | Herrmann                | 1985           | 430.0                            | --                        | 119.0                            | --              | X                         | --                             | BrW                    |
| HUM 143           | 431255   | 714018    | Bernan                  | 1985           | 470.0                            | --                        | 101.0                            | --              | X                         | --                             | BrW                    |

Merrimack County

Hopkinton--Continued

|         |     |      |          |    |      |    |    |      |
|---------|-----|------|----------|----|------|----|----|------|
| HUM 107 | 107 | 10.0 | 03-16-88 | H  | 12.0 | -- | -- | .5   |
| HUM 108 | 108 | 20.0 | 03-11-88 | H  | 50.0 | -- | -- | .5   |
| HUM 109 | 109 | 13.0 | 04-22-88 | H  | 26.0 | -- | -- | 1.0  |
| HUM 110 | 110 | 15.0 | 04-02-88 | H  | 18.0 | -- | -- | 1.0  |
| HUM 111 | 111 | 16.0 | 05-27-88 | H  | 30.0 | -- | -- | 1.0  |
| HUM 112 | 112 | 61.6 | 09-01-88 | T  | 13.0 | -- | -- | 36.0 |
| HUM 113 | 113 | 50.0 | 06-03-88 | H  | 2.0  | -- | -- | --   |
| HUM 114 | 114 | --   | ----     | H  | 10.0 | -- | -- | --   |
| HUM 115 | 115 | 4.0  | 04-18-88 | H  | 4.0  | -- | -- | --   |
| HUM 116 | 116 | --   | ----     | H  | 5.0  | -- | -- | .8   |
| HUM 118 | 118 | --   | ----     | H  | 3.0  | -- | -- | --   |
| HUM 119 | 119 | --   | ----     | H  | 4.0  | -- | -- | --   |
| HUM 121 | 121 | 1.0  | 07-19-88 | H  | 2.0  | -- | -- | --   |
| HUM 122 | 122 | --   | ----     | -- | 10.0 | -- | -- | .5   |
| HUM 123 | 123 | --   | ----     | -- | 2.0  | -- | -- | .5   |
| HUM 125 | 125 | --   | ----     | H  | 10.0 | -- | -- | 1.0  |
| HUM 126 | 126 | --   | ----     | H  | 5.0  | -- | -- | .5   |
| HUM 127 | 127 | 11.0 | 10-05-84 | H  | 13.0 | -- | -- | 1.0  |
| HUM 128 | 128 | 50.0 | 08-03-84 | H  | 1.5  | -- | -- | 0.5  |
| HUM 129 | 129 | --   | ----     | H  | 20.0 | -- | -- | .5   |
| HUM 130 | 130 | 60.0 | 07-21-84 | H  | 45.0 | -- | -- | 1.0  |
| HUM 133 | 133 | --   | ----     | H  | --   | -- | -- | 1.5  |
| HUM 134 | 134 | --   | ----     | H  | --   | -- | -- | --   |
| HUM 135 | 135 | --   | ----     | H  | 1.5  | -- | -- | --   |
| HUM 136 | 136 | --   | ----     | H  | 2.0  | -- | -- | --   |
| HUM 139 | 139 | --   | ----     | H  | 30.0 | -- | -- | .5   |
| HUM 140 | 140 | --   | ----     | H  | 50.0 | -- | -- | --   |
| HUM 141 | 141 | --   | ----     | H  | 15.0 | -- | -- | .5   |
| HUM 142 | 142 | --   | ----     | H  | 3.0  | -- | -- | .5   |
| HUM 143 | 143 | --   | ----     | H  | 3.0  | -- | -- | .5   |

Merrimack County

Hopkinton--Continued

|         |     |      |          |    |      |    |    |      |
|---------|-----|------|----------|----|------|----|----|------|
| HUM 107 | 107 | 10.0 | 03-16-88 | H  | 12.0 | -- | -- | .5   |
| HUM 108 | 108 | 20.0 | 03-11-88 | H  | 50.0 | -- | -- | .5   |
| HUM 109 | 109 | 13.0 | 04-22-88 | H  | 26.0 | -- | -- | 1.0  |
| HUM 110 | 110 | 15.0 | 04-02-88 | H  | 18.0 | -- | -- | 1.0  |
| HUM 111 | 111 | 16.0 | 05-27-88 | H  | 30.0 | -- | -- | 1.0  |
| HUM 112 | 112 | 61.6 | 09-01-88 | T  | 13.0 | -- | -- | 36.0 |
| HUM 113 | 113 | 50.0 | 06-03-88 | H  | 2.0  | -- | -- | --   |
| HUM 114 | 114 | --   | ----     | H  | 10.0 | -- | -- | --   |
| HUM 115 | 115 | 4.0  | 04-18-88 | H  | 4.0  | -- | -- | --   |
| HUM 116 | 116 | --   | ----     | H  | 5.0  | -- | -- | .8   |
| HUM 118 | 118 | --   | ----     | H  | 3.0  | -- | -- | --   |
| HUM 119 | 119 | --   | ----     | H  | 4.0  | -- | -- | --   |
| HUM 121 | 121 | 1.0  | 07-19-88 | H  | 2.0  | -- | -- | --   |
| HUM 122 | 122 | --   | ----     | -- | 10.0 | -- | -- | .5   |
| HUM 123 | 123 | --   | ----     | -- | 2.0  | -- | -- | .5   |
| HUM 125 | 125 | --   | ----     | H  | 10.0 | -- | -- | 1.0  |
| HUM 126 | 126 | --   | ----     | H  | 5.0  | -- | -- | .5   |
| HUM 127 | 127 | 11.0 | 10-05-84 | H  | 13.0 | -- | -- | 1.0  |
| HUM 128 | 128 | 50.0 | 08-03-84 | H  | 1.5  | -- | -- | 0.5  |
| HUM 129 | 129 | --   | ----     | H  | 20.0 | -- | -- | .5   |
| HUM 130 | 130 | 60.0 | 07-21-84 | H  | 45.0 | -- | -- | 1.0  |
| HUM 133 | 133 | --   | ----     | H  | --   | -- | -- | 1.5  |
| HUM 134 | 134 | --   | ----     | H  | --   | -- | -- | --   |
| HUM 135 | 135 | --   | ----     | H  | 1.5  | -- | -- | --   |
| HUM 136 | 136 | --   | ----     | H  | 2.0  | -- | -- | --   |
| HUM 139 | 139 | --   | ----     | H  | 30.0 | -- | -- | .5   |
| HUM 140 | 140 | --   | ----     | H  | 50.0 | -- | -- | --   |
| HUM 141 | 141 | --   | ----     | H  | 15.0 | -- | -- | .5   |
| HUM 142 | 142 | --   | ----     | H  | 3.0  | -- | -- | .5   |
| HUM 143 | 143 | --   | ----     | H  | 3.0  | -- | -- | .5   |





Appendix A.--Description of wells and borings--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user     | Year completed | Elevation above sea level (feet) | Casing depth to bottom of well (feet) | Casing material | Depth to bottom of open well (feet) | Type of well | Remarks | Type of casing | Pump | Remarks |
|-------------------|----------|-----------|-------------------|----------------|----------------------------------|---------------------------------------|-----------------|-------------------------------------|--------------|---------|----------------|------|---------|
|                   |          |           |                   |                |                                  |                                       |                 |                                     |              |         |                |      |         |
| HUM 183           | 431046   | 714031    | Sauer             | 1986           | 610.0                            | 34.0                                  |                 |                                     | HW           |         |                |      |         |
| HUM 184           | 431238   | 714534    | Jemison           | 1985           | 540.0                            | 108.0                                 | X               | 04-04-86                            | HW           |         |                |      |         |
| HUM 185           | 431031   | 714027    | Morrissey         | 1986           | 750.0                            | 19.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 186           | 431133   | 713936    | Larson            | 1986           | 580.0                            | 80.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 187           | 431241   | 713850    | Sahmann           | 1987           | 720.0                            | 31.0                                  | X               | 07-21-88                            | HW           |         |                |      |         |
| HUM 188           | 431042   | 714027    | Fougere           | 1986           | 670.0                            | 21.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 189           | 431438   | 714147    | Micucci           | 1986           | 380.0                            | 152.0                                 | X               |                                     | HW           |         |                |      |         |
| HUM 190           | 431221   | 714226    |                   | --             | 410.0                            | 331.0                                 | X               |                                     | HW           |         |                |      |         |
| HUM 191           | 431349   | 714006    | Woodbury          | 1986           | 390.0                            | 101.0                                 | X               |                                     | HW           |         |                |      |         |
| HUM 192           | 431159   | 713940    | Parker            | 1986           | 600.0                            | 71.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 193           | 431432   | 714548    | Donnelly          | 1986           | 500.0                            | 100.0                                 | X               | 07-10-86                            | HW           |         |                |      |         |
| HUM 194           | 431429   | 714529    | Chamberlain       | 1986           | 400.0                            | 80.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 195           | 430947   | 714140    | Desruisseaux      | 1986           | 430.0                            | 100.0                                 | X               | 04-10-88                            | HW           |         |                |      |         |
| HUM 196           | 431345   | 714006    | Flint             | 1986           | 410.0                            | 140.0                                 | X               |                                     | HW           |         |                |      |         |
| HUM 197           | 431442   | 714150    | McLinn            | 1986           | 380.0                            | 135.0                                 | X               |                                     | HW           |         |                |      |         |
| HUM 198           | 431330   | 714526    | Demers            | 1984           | 460.0                            | 39.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 199           | 431253   | 713843    | Kayblom           | 1984           | 730.0                            | 34.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 200           | 431204   | 715974    | Witham            | 1984           | 530.0                            | 33.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 201           | 431106   | 713920    | Wheeler           | 1986           | 540.0                            | 20.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 202           | 431106   | 713913    | Patenaude         | 1987           | 570.0                            | 47.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 203           | 431127   | 713924    | Turcotte          | 1988           | 595.0                            | 59.0                                  | X               | 01-04-88                            | HW           |         |                |      |         |
| HUM 204           | 431057   | 714413    | Peaked Hill Place | 1988           | 450.0                            | 47.0                                  | X               |                                     | HW           |         |                |      |         |
| HUM 205           | 431442   | 714123    | White             | 1988           | 360.0                            | 105.0                                 | X               | 06-27-88                            | HW           |         |                |      |         |
| HUM 212           | 431231   | 714320    |                   | 1989           | 370.0                            | 37.0                                  | X               | 11-06-88                            | HW           |         |                |      |         |
| HUM 213           | 431349   | 714259    | Town of Hopkinton | --             | 379.7                            | --                                    |                 | 4-10                                | HW           |         |                |      |         |
| HUM 214           | 431238   | 714348    | Town of Hopkinton | --             | 190.0                            | --                                    |                 | 06-23                               | HW           |         |                |      |         |
| HUM 215           | 431239   | 714212    | Town of Hopkinton | --             | 410.0                            | --                                    |                 | 07-03-71                            | HW           |         |                |      |         |
| HUM 216           | 431145   | 714209    | Town of Hopkinton | --             | 420.0                            | --                                    |                 | 10-28-76                            | HW           |         |                |      |         |
| HUM 217           | 431352   | 714248    | Town of Hopkinton | --             | 380.3                            | --                                    |                 | 06-04-86                            | HW           |         |                |      |         |
| HUM 218           | 431335   | 714302    | Town of Hopkinton | --             | 374.5                            | --                                    |                 | 04-06-88                            | HW           |         |                |      |         |

Hopkinton--Continued

Merrimack County

Appendix A.--Description of wells and borings--Continued

| Local site number    | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of open well section or (feet) spring | Type of well |
|----------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|---|--------------|
| Merrimack County     |          |           |                     |                |                                  |                           |                                  |                 |                        |   |              |
| Hopkinton--Continued |          |           |                     |                |                                  |                           |                                  |                 |                        |   |              |
| HUM 226              | 431425   | 714142    | Karhan              | 1988           | 375.0                            | --                        | 41.0                             | --              | X                      | --  | BrW          |
| HUM 227              | 431428   | 714258    | Dustin              | 1989           | 400.0                            | --                        | 79.0                             | --              | X                      | --  | BrW          |
| HUM 228              | 431438   | 714149    | MalMBERG            | 1988           | 365.0                            | --                        | 146.0                            | --              | X                      | --  | BrW          |
| HUM 229              | 431156   | 714247    | Yankee Book Peddler | 1990           | 380.0                            | --                        | 39.0                             | --              | X                      | --  | BrW          |
| Newbury              |          |           |                     |                |                                  |                           |                                  |                 |                        |   |              |
| NDB 1                | 431726   | 715935    | NH PUB WKS HWY      | --             | 710.0                            | --                        | --                               | --              | --                     | --  | TH           |
| NDB 2                | 431747   | 715947    | NH PUB WKS HWY      | --             | 720.0                            | --                        | --                               | --              | --                     | --  | TH           |
| NDB 3                | 431842   | 720130    | NH PUB WKS HWY      | --             | 980.0                            | --                        | --                               | --              | --                     | --  | TH           |
| NDB 4                | 431818   | 720045    | NH PUB WKS HWY      | --             | 820.0                            | --                        | --                               | --              | --                     | --  | TH           |
| NDB 5                | 431730   | 720223    | NH PUB WKS HWY      | --             | 1380.0                           | --                        | --                               | --              | --                     | --  | TH           |
| NDW 1                | 431749   | 715959    | Rushway, Lion       | 1959           | 740.0                            | --                        | 77.0                             | --              | --                     | --  | BrW          |
| NDW 2                | 431814   | 720042    | Purple, George      | 1950           | 810.0                            | --                        | 20.0                             | --              | --                     | --  | BrW          |
| NDW 3                | 431753   | 720003    | Therrien, Richard   | 1959           | 740.0                            | --                        | 120.0                            | --              | --                     | --  | BrW          |
| NDW 4                | 431711   | 715852    | Lawler, G.G.        | 1961           | 700.0                            | --                        | --                               | --              | --                     | --  | BrW          |
| NDW 5                | 431803   | 715831    | --                  | 1985           | 930.0                            | --                        | 72.0                             | --              | X                      | --  | BrW          |
| NDW 19               | 431840   | 720136    | --                  | 1985           | 1060.0                           | --                        | 47.0                             | --              | X                      | --  | BrW          |
| NDW 20               | 431601   | 720113    | --                  | 1985           | 880.0                            | --                        | 69.0                             | --              | X                      | --  | BrW          |
| NDW 21               | 431747   | 715958    | --                  | 1985           | 740.0                            | --                        | 54.0                             | --              | X                      | --  | BrW          |
| NDW 23               | 431606   | 720022    | --                  | 1986           | 830.0                            | --                        | 19.5                             | --              | X                      | --  | BrW          |
| NDW 29               | 431603   | 720026    | Gallupe Bros        | 1985           | 830.0                            | --                        | 119.0                            | --              | X                      | --  | BrW          |
| NDW 30               | 431705   | 715907    | --                  | 1986           | 860.0                            | --                        | 80.0                             | --              | X                      | --  | BrW          |
| NDW 44               | 431553   | 720107    | --                  | 1986           | 880.0                            | --                        | 99.0                             | --              | X                      | --  | BrW          |
| NDW 47               | 431710   | 715852    | --                  | 1986           | 700.0                            | --                        | 80.0                             | --              | X                      | --  | BrW          |
| NDW 51               | 431618   | 720011    | --                  | 1987           | 940.0                            | --                        | 39.0                             | --              | X                      | --  | BrW          |
| NDW 55               | 431932   | 720044    | --                  | 1987           | 1460.0                           | --                        | 19.0                             | --              | X                      | --  | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number    | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                 |
|----------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|-------------------------|
| Merrimack County     |                          |                 |                      |                         |                 |                                  |                        |                         |
| Hopkinton--Continued |                          |                 |                      |                         |                 |                                  |                        |                         |
| HUM 226              | --                       | -----           | H                    | --                      | --              | --                               | 1.0                    |                         |
| HUM 227              | 25.0                     | 07-27-89        | H                    | 7.0                     | --              | --                               | --                     | Bridge 137/064 boring 5 |
| HUM 228              | --                       | -----           | H                    | --                      | --              | --                               | --                     | Bridge 132/074 boring 6 |
| HUM 229              | 10.0                     | 09-27-90        | H                    | 15.0                    | --              | --                               | --                     | Bridge 104/092 boring 6 |
| Newbury              |                          |                 |                      |                         |                 |                                  |                        |                         |
| NDB 1                | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 116/085 boring 7 |
| NDB 2                | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bridge 090/074 boring 2 |
| NDB 3                | 40.0                     | 03-31-59        | H                    | 7.0                     | --              | --                               | --                     | Bedrock                 |
| NDB 4                | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bedrock                 |
| NDB 5                | --                       | -----           | T                    | --                      | --              | --                               | --                     | Bedrock                 |
| NDW 1                | 20.0                     | 04-28-59        | H                    | 8.0                     | --              | --                               | --                     |                         |
| NDW 2                | --                       | -----           | H                    | 15.0                    | --              | --                               | --                     |                         |
| NDW 3                | 40.0                     | 03-31-59        | H                    | 7.0                     | --              | --                               | --                     |                         |
| NDW 5                | 8.0                      | 08---61         | H                    | 10.0                    | --              | --                               | --                     |                         |
| NDW 11               | 41.0                     | 09-05-85        | H                    | 7.0                     | --              | --                               | 1.0                    |                         |
| NDW 19               | 40.0                     | 05-16-85        | H                    | 5.0                     | --              | --                               | 1.0                    |                         |
| NDW 20               | 10.0                     | 08-05-85        | H                    | 14.0                    | --              | --                               | 1.0                    |                         |
| NDW 21               | 10.0                     | 03-01-85        | H                    | 5.0                     | --              | --                               | 1.0                    |                         |
| NDW 23               | 8.0                      | 03-21-86        | H                    | 6.0                     | --              | --                               | 1.0                    |                         |
| NDW 29               | 20.0                     | 10-17-85        | H                    | 5.0                     | --              | --                               | 1.0                    |                         |
| NDW 30               | 20.0                     | 06-25-86        | H                    | 15.0                    | --              | --                               | .5                     |                         |
| NDW 44               | 20.0                     | 11-11-86        | H                    | 4.0                     | --              | --                               | 1.0                    |                         |
| NDW 47               | 25.0                     | 11-28-86        | H                    | 5.0                     | --              | --                               | .5                     |                         |
| NDW 51               | --                       | -----           | H                    | 15.0                    | --              | --                               | 2.0                    |                         |
| NDW 55               | --                       | -----           | H                    | 6.0                     | --              | --                               | .8                     |                         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| NDW 57            | 431810   | 720028    | --                  | 1987           | 790.0                            | --                        | 9.0                              | --              | X              | --                                     | BrW          |
| NDW 78            | 431742   | 715946    | --                  | 1988           | 730.0                            | 2.0                       | 22.0                             | P               | P              | 22.0                                   | TH           |
| NDW 88            | 431713   | 715925    | Mock                | 1988           | 810.0                            | --                        | 31.0                             | --              | X              | --                                     | BrW          |
| New London        |          |           |                     |                |                                  |                           |                                  |                 |                |  |              |
| NLA 10            | 432533   | 715820    | Cook, Harry         | 1960           | 1060.0                           | --                        | 25.0                             | --              | --             | 28.0                                   | BrW          |
| NLA 10            | 432533   | 715820    |                     | --             | 1060.0                           | --                        | --                               | --              | --             | --                                     | BrW          |
| NLB 1             | 432332   | 715858    | NH PUB WKS HWY      | --             | 1130.0                           | --                        | --                               | --              | --             | --                                     | TH           |
| NLB 2             | 432330   | 715902    | NH PUB WKS HWY      | --             | 1130.0                           | --                        | --                               | --              | --             | --                                     | TH           |
| NLB 3             | 432345   | 720013    | NH PUB WKS HWY      | --             | 1130.0                           | --                        | --                               | --              | --             | --                                     | TH           |
| NLB 4             | 432344   | 720016    | NH PUB WKS HWY      | --             | 1130.0                           | --                        | --                               | --              | --             | --                                     | TH           |
| NLB 5             | 432407   | 720104    | NH PUB WKS HWY      | --             | 1180.0                           | --                        | --                               | --              | --             | --                                     | TH           |
| NLB 6             | 432405   | 720105    | NH PUB WKS HWY      | --             | 1180.0                           | --                        | --                               | --              | --             | --                                     | TH           |
| NLB 7             | 432414   | 715605    | Town of New London  | --             | 850.0                            | --                        | --                               | --              | --             | --                                     |              |
| NLB 9             | 432448   | 715633    | Town of New London  | --             | 840.0                            | --                        | --                               | --              | --             | --                                     |              |
| NLB 10            | 432610   | 715804    | Town of New London  | --             | 820.0                            | --                        | --                               | --              | --             | --                                     |              |
| NLB 11            | 432354   | 715955    | Town of New London  | --             | 1110.0                           | --                        | --                               | --              | --             | --                                     |              |
| NLB 12            | 432409   | 720049    | Town of New London  | --             | 1120.0                           | --                        | --                               | --              | --             | --                                     |              |
| NLW 2             | 432550   | 715647    | Boyd                | --             | 920.0                            | --                        | 10.0                             | --              | --             | --                                     | BrW          |
| NLW 3             | 432539   | 715818    | Drake               | 1962           | 920.0                            | --                        | 30.0                             | --              | --             | --                                     | BrW          |
| NLW 4             | 432509   | 715602    |                     | 1955           | 780.0                            | --                        | 20.0                             | --              | --             | --                                     |              |
| NLW 5             | 432509   | 715602    | Slater              | 1962           | 780.0                            | --                        | 32.0                             | --              | --             | --                                     | BrW          |
| NLW 6             | 432505   | 715605    | Thurston            | 1962           | 800.0                            | --                        | 32.0                             | --              | --             | --                                     | BrW          |
| NLW 7             | 432500   | 715638    | Hayes, Bill         | 1962           | 830.0                            | --                        | 170.0                            | --              | --             | --                                     | BrW          |
| NLW 8             | 432401   | 715732    | Sharkey, Bill       | 1962           | 1100.0                           | --                        | 23.0                             | --              | --             | --                                     | BrW          |
| NLW 11            | 432408   | 715727    | Crosby, Richard     | 1962           | 1040.0                           | --                        | 12.0                             | --              | --             | --                                     | BrW          |
| NLW 12            | 432517   | 715717    | Dow                 | 1960           | 810.0                            | --                        | 17.0                             | --              | --             | --                                     | BrW          |
| NLW 13            | 432341   | 715821    | Gourley, Charles R. | 1900           | 1050.0                           | --                        | 13.0                             | --              | --             | --                                     | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Depth (feet) | Water Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks                  |
|-------------------|--------------|-----------------------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|--------------------------|
| NDW 57            | --           | ----                        | H                    | 25.0                    | --              | --                               | .8                     |                          |
| NDW 78            | 3.8          | 06-27-89                    | T                    | --                      | --              | --                               | --                     | USGS;2                   |
| NDW 88            | --           | ----                        | H                    | 2.0                     | --              | --                               | 1.0                    |                          |
| New London        |              |                             |                      |                         |                 |                                  |                        |                          |
| NLA 10            | 11.0         | ----60                      | H                    | 10.0                    | --              | --                               | --                     | Bedrock                  |
| NLA 10            | 11.0         | ----60                      | H                    | 20.0                    | --              | --                               | --                     | Bedrock                  |
| NLB 1             | --           | ----                        | T                    | --                      | --              | --                               | --                     | Bridge 124/059 boring 8  |
| NLB 2             | --           | ----                        | T                    | --                      | --              | --                               | --                     | Bridge 124/198 boring 10 |
| NLB 3             | --           | ----                        | T                    | --                      | --              | --                               | --                     | Bridge 103/065 boring 11 |
| NLB 4             | --           | ----                        | T                    | --                      | --              | --                               | --                     | Bridge 103/064 boring 13 |
| NLB 5             | --           | ----                        | T                    | --                      | --              | --                               | --                     | Bridge 088/076 boring 9  |
| NLB 6             | --           | ----                        | T                    | --                      | --              | --                               | --                     | Bridge 089/074 boring 4  |
| NLB 7             | --           | ----                        | 0                    | --                      | --              | --                               | --                     |                          |
| NLB 9             | --           | ----                        | 0                    | --                      | --              | --                               | --                     |                          |
| NLB 10            | 2.5          | 06-18-88                    | 0                    | --                      | --              | --                               | --                     |                          |
| NLB 11            | --           | ----                        | 0                    | --                      | --              | --                               | --                     |                          |
| NLB 12            | --           | ----                        | 0                    | --                      | --              | --                               | --                     |                          |
| NLW 2             | --           | ----                        | H                    | 2.5                     | --              | --                               | --                     | Bedrock                  |
| NLW 3             | --           | ----                        | H                    | 10.0                    | --              | --                               | --                     | Bedrock                  |
| NLW 4             | --           | ----                        | H                    | 3.0                     | --              | --                               | --                     | Bedrock                  |
| NLW 5             | --           | ----                        | H                    | 6.0                     | --              | --                               | --                     | Bedrock                  |
| NLW 6             | --           | ----                        | --                   | 6.0                     | --              | --                               | --                     | Bedrock                  |
| NLW 7             | --           | ----                        | H                    | 5.0                     | --              | --                               | --                     | Bedrock                  |
| NLW 8             | --           | ----                        | H                    | 4.0                     | --              | --                               | --                     | Bedrock                  |
| NLW 11            | --           | ----                        | H                    | 30.0                    | --              | --                               | --                     | Bedrock                  |
| NLW 12            | 15.0         | ----60                      | H                    | 4.0                     | --              | --                               | --                     | Bedrock                  |
| NLW 13            | 15.0         | 05-24-00                    | H                    | 5.0                     | --              | --                               | --                     | Bedrock                  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open well or finish section (feet) | Type of well |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|---|--------------|
| MLW 14            | 432413   | 715636    | Huller                  | 1900           | 950.0                            | --                        | 102.0                            | --  | BNW          |
| MLW 15            | 432509   | 715624    | Lull, Richard           | --             | 810.0                            | --                        | --                               | --  | BNW          |
| MLW 16            | 432511   | 715708    | Simpson                 | --             | 810.0                            | --                        | --                               | --  | BNW          |
| MLW 17            | 432554   | 715812    | Mac Michael, Bob        | 1956           | 810.0                            | --                        | 73.0                             | --  | BNW          |
| MLW 18            | 432505   | 715632    | Wede, Grace             | 1956           | 810.0                            | --                        | 44.0                             | --  | BNW          |
| MLW 19            | 432418   | 715643    | Histler, Oakley         | 1955           | 960.0                            | --                        | 51.0                             | --  | BNW          |
| MLW 21            | 432329   | 720018    | Bailey                  | 1964           | 1330.0                           | --                        | --                               | --  | BNW          |
| MLW 22            | 432427   | 715510    | Town of New London      | --             | 800.0                            | --                        | --                               | 35.0  |              |
| MLW 23            | 432420   | 715509    | Town of New London      | --             | 790.0                            | --                        | --                               | 55.0  |              |
| MLW 24            | 432424   | 715519    | Town of New London      | --             | 810.0                            | --                        | --                               | 45.0  |              |
| MLW 25            | 432431   | 715518    | Town of New London      | --             | 800.0                            | --                        | --                               | 15.0  |              |
| MLW 26            | 432411   | 715639    | --                      | 1984           | 960.0                            | --                        | 39.0                             | --  | BNW          |
| MLW 27            | 432521   | 715730    | --                      | 1984           | 820.0                            | --                        | 19.0                             | X   | BNW          |
| MLW 31            | 432353   | 720036    | --                      | 1984           | 1160.0                           | --                        | 19.0                             | X   | BNW          |
| MLW 32            | 432336   | 715756    | --                      | 1984           | 1010.0                           | --                        | 29.0                             | X   | BNW          |
| MLW 33            | 432357   | 720043    | --                      | 1984           | 1160.0                           | --                        | 54.0                             | X   | BNW          |
| MLW 34            | 432606   | 715733    | --                      | 1984           | 865.0                            | --                        | 19.0                             | X   | BNW          |
| MLW 36            | 432352   | 720031    | --                      | 1984           | 1130.0                           | --                        | 19.0                             | X   | BNW          |
| MLW 37            | 432515   | 715612    | --                      | 1985           | 800.0                            | --                        | 34.0                             | X   | BNW          |
| MLW 41            | 432537   | 715801    | --                      | 1985           | 840.0                            | --                        | 19.0                             | X   | BNW          |
| MLW 42            | 432357   | 715659    | Lake Sunapee Country Cl | 1985           | 930.0                            | --                        | 23.0                             | X   | BNW          |
| MLW 43            | 432544   | 715634    | --                      | 1985           | 860.0                            | --                        | 20.0                             | X   | BNW          |
| MLW 45            | 432511   | 715955    | --                      | 1985           | 900.0                            | --                        | 34.0                             | X   | BNW          |
| MLW 50            | 432345   | 715749    | --                      | 1985           | 1090.0                           | --                        | 19.0                             | X   | BNW          |
| MLW 51            | 432427   | 720051    | --                      | 1985           | 1120.0                           | --                        | 19.0                             | X   | BNW          |
| MLW 52            | 432458   | 715651    | --                      | 1985           | 830.0                            | --                        | 79.0                             | X   | BNW          |
| MLW 58            | 432338   | 715743    | --                      | 1986           | 1040.0                           | --                        | --                               | X   | BNW          |
| MLW 60            | 432418   | 715940    | --                      | 1985           | 1250.0                           | --                        | 19.0                             | X   | BNW          |
| MLW 64            | 432538   | 715616    | --                      | 1985           | 870.0                            | --                        | 19.0                             | X   | BNW          |
| MLW 65            | 432344   | 715740    | --                      | 1985           | 1070.0                           | --                        | 10.0                             | X   | BNW          |

Merrimack County

New London--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min/ft) | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|--------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|---------|
| MLW 14            | ----                        | --           | H                    | --                      | --              | --                             | --                     | Bedrock |
| MLW 15            | ----                        | --           | H                    | 10.0                    | --              | --                             | --                     | Bedrock |
| MLW 16            | ----                        | --           | H                    | 10.0                    | --              | --                             | --                     | Bedrock |
| MLW 17            | ----                        | --           | H                    | 4.0                     | --              | --                             | --                     | Bedrock |
| MLW 18            | ----                        | --           | H                    | 10.0                    | --              | --                             | --                     | Bedrock |
| MLW 19            | ----                        | --           | H                    | 4.0                     | --              | --                             | --                     | Bedrock |
| MLW 21            | ----                        | --           | H                    | 30.0                    | --              | --                             | --                     | Bedrock |
| MLW 22            | 07-24-86                    | 7.7          | O                    | --                      | --              | --                             | --                     |         |
| MLW 23            | 07-24-86                    | 10.4         | O                    | --                      | --              | --                             | --                     |         |
| MLW 24            | 07-24-86                    | 28.0         | O                    | --                      | --              | --                             | --                     |         |
| MLW 25            | 07-24-86                    | .4           | O                    | --                      | --              | --                             | --                     |         |
| MLW 26            | ----                        | --           | H                    | 1.0                     | --              | --                             | 1.0                    |         |
| MLW 27            | 02-24-84                    | 30.0         | H                    | 5.0                     | --              | --                             | .5                     |         |
| MLW 31            | ----                        | --           | H                    | 6.0                     | --              | --                             | --                     |         |
| MLW 32            | 09-11-84                    | 35.0         | H                    | 10.0                    | --              | --                             | .5                     |         |
| MLW 33            | ----                        | --           | H                    | 25.0                    | --              | --                             | 1.0                    |         |
| MLW 34            | ----                        | --           | H                    | 8.5                     | --              | --                             | 1.0                    |         |
| MLW 36            | ----                        | --           | H                    | 6.0                     | --              | --                             | .5                     |         |
| MLW 37            | 02-01-85                    | 16.0         | H                    | 5.3                     | --              | --                             | 1.0                    |         |
| MLW 41            | ----                        | --           | H                    | 2.5                     | --              | --                             | .5                     |         |
| MLW 42            | ----                        | --           | P                    | 60.0                    | --              | --                             | 1.0                    |         |
| MLW 43            | ----                        | --           | H                    | 7.0                     | --              | --                             | .5                     |         |
| MLW 45            | 08-15-85                    | 24.0         | H                    | 6.0                     | --              | --                             | .2                     |         |
| MLW 50            | 05-08-85                    | 20.0         | H                    | 4.0                     | --              | --                             | 1.0                    |         |
| MLW 51            | 09-10-85                    | 3.5          | H                    | 14.0                    | --              | --                             | 1.0                    |         |
| MLW 52            | ----                        | --           | H                    | 50.0                    | --              | --                             | 1.0                    |         |
| MLW 58            | 01-25-86                    | 48.0         | H                    | 1.8                     | --              | --                             | 1.0                    |         |
| MLW 60            | 05-17-86                    | 30.0         | H                    | 4.0                     | --              | --                             | 1.0                    |         |
| MLW 64            | ----                        | --           | H                    | .8                      | --              | --                             | 1.0                    |         |
| MLW 65            | ----                        | --           | H                    | 4.0                     | --              | --                             | 1.0                    |         |

Merrimack County

New London--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number     | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or | Depth to bottom of open well (feet) | Type of well | Remarks |
|-----------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---------------------------|-------------------------------------|--------------|---------|
| MLW 67                | 432451   | 715706    | --                      | 1986           | 980.0                            | --                        | 12.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 69                | 432346   | 715735    | --                      | 1986           | 1060.0                           | --                        | 79.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 71                | 432334   | 720050    | --                      | 1987           | 1270.0                           | --                        | 20.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 73                | 432348   | 715747    | --                      | 1987           | 1110.0                           | --                        | 19.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 76                | 432339   | 715740    | --                      | 1987           | 1040.0                           | --                        | 19.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 79                | 432334   | 715757    | --                      | 1987           | 1000.0                           | --                        | 30.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 80                | 432410   | 715940    | --                      | 1987           | 1180.0                           | --                        | 30.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 81                | 432428   | 715957    | --                      | 1987           | 1290.0                           | --                        | 11.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 82                | 432509   | 715612    | --                      | 1987           | 790.0                            | --                        | 39.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 83                | 432445   | 715756    | --                      | 1987           | 1210.0                           | --                        | 17.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 84                | 432334   | 715806    | Pellerin, D.            | 1987           | 1020.0                           | --                        | 99.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 85                | 432521   | 715727    | --                      | 1987           | 820.0                            | --                        | 19.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 86                | 432334   | 715847    | Pugh                    | 1987           | 1100.0                           | --                        | 29.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 87                | 432342   | 720101    | --                      | 1987           | 1280.0                           | --                        | 19.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 90                | 432346   | 715650    | --                      | --             | 930.0                            | --                        | 19.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 92                | 432532   | 715624    | --                      | --             | 820.0                            | --                        | 13.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 94                | 432358   | 715551    | New London - SEPTAGE PI | --             | 850.0                            | --                        | --                               | --              | --                        | --                                  | --           |         |
| MLW 95                | 432403   | 715555    | New London - SEPTAGE PI | --             | 850.0                            | --                        | --                               | --              | --                        | --                                  | --           |         |
| MLW 96                | 432446   | 715551    | Beardstey               | 1985           | 860.0                            | --                        | 79.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 97                | 432449   | 715557    | Buker                   | 1985           | 860.0                            | --                        | 52.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 98                | 432441   | 715547    | Barrett                 | 1988           | 860.0                            | --                        | 59.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 105               | 432416   | 715541    | Hayes                   | 1988           | 835.0                            | --                        | 62.0                             | --              | X                         | --                                  | BrW          |         |
| MLW 106               | 432507   | 715629    | Marshaw                 | 1988           | 812.0                            | --                        | 104.0                            | --              | X                         | --                                  | BrW          |         |
| MLW 107               | 432427   | 715514    | Sanborn                 | 1989           | 800.0                            | --                        | 21.0                             | --              | X                         | --                                  | BrW          |         |
| Merrimack County      |          |           |                         |                |                                  |                           |                                  |                 |                           |                                     |              |         |
| New London--Continued |          |           |                         |                |                                  |                           |                                  |                 |                           |                                     |              |         |
| SBA 1                 | 432222   | 714645    | --                      | 1991           | 580.0                            | --                        | --                               | --              | --                        | --                                  | TH           |         |
| SBA 2                 | 432057   | 714530    | --                      | 1991           | 565.0                            | --                        | --                               | --              | --                        | --                                  | TH           |         |
| SBB 1                 | 432119   | 714654    | --                      | --             | 560.0                            | --                        | --                               | --              | --                        | --                                  | TH           |         |
| SBB 3                 | 432263   | 714732    | --                      | --             | 580.0                            | --                        | --                               | --              | --                        | --                                  | TH           |         |

A-110

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|---------|
| MLW 67            | 48.0                     | 11-19-86              | H                    | 1.3                          | --              | --                               | 2.0                    |         |
| MLW 69            | --                       | ----                  | H                    | 3.5                          | --              | --                               | .8                     |         |
| MLW 71            | --                       | ----                  | H                    | 1.5                          | --              | --                               | .5                     |         |
| MLW 73            | 10.0                     | 04-17-87              | H                    | 2.0                          | --              | --                               | .8                     |         |
| MLW 76            | --                       | ----                  | H                    | --                           | --              | --                               | 1.0                    |         |
| MLW 79            | --                       | ----                  | H                    | 25.0                         | --              | --                               | .5                     |         |
| MLW 80            | --                       | ----                  | H                    | 5.0                          | --              | --                               | .5                     |         |
| MLW 81            | --                       | ----                  | H                    | 25.0                         | --              | --                               | .8                     |         |
| MLW 82            | --                       | ----                  | H                    | 4.0                          | --              | --                               | 1.0                    |         |
| MLW 83            | 20.0                     | 12-15-87              | H                    | 5.0                          | --              | --                               | 1.5                    |         |
| MLW 84            | --                       | ----                  | H                    | 7.0                          | --              | --                               | 1.0                    |         |
| MLW 85            | --                       | ----                  | H                    | 2.5                          | --              | --                               | 1.0                    |         |
| MLW 86            | --                       | ----                  | H                    | 4.0                          | --              | --                               | 1.0                    |         |
| MLW 87            | 24.0                     | 10-30-87              | H                    | 1.5                          | --              | --                               | 1.0                    |         |
| MLW 90            | 8.0                      | 03-07-88              | H                    | 6.0                          | --              | --                               | .8                     |         |
| MLW 92            | --                       | ----                  | H                    | 100.0                        | --              | --                               | 0.8                    |         |
| MLW 94            | 15.0                     | 09-23-83              | 0                    | --                           | --              | --                               | --                     |         |
| MLW 95            | 14.0                     | 09-26-83              | 0                    | --                           | --              | --                               | --                     |         |
| MLW 96            | 20.0                     | 12-06-85              | H                    | 4.0                          | --              | --                               | .5                     |         |
| MLW 97            | 8.0                      | 12-10-85              | H                    | 20.0                         | --              | --                               | .8                     |         |
| MLW 98            | 5.0                      | 03-08-88              | H                    | 3.0                          | --              | --                               | .8                     |         |
| MLW 105           | 10.0                     | 11-21-88              | H                    | 4.5                          | --              | --                               | 2.0                    |         |
| MLW 106           | 12.0                     | 09-08-88              | H                    | 25.0                         | --              | --                               | .8                     |         |
| MLW 107           | 10.0                     | 07-31-89              | H                    | 1.5                          | --              | --                               | --                     |         |
| Merrimack County  |                          |                       |                      |                              |                 |                                  |                        |         |
| Salisbury         |                          |                       |                      |                              |                 |                                  |                        |         |
| SBA 1             | --                       | ----                  | T                    | --                           | --              | --                               | --                     | USGS;Z  |
| SBA 2             | --                       | ----                  | T                    | --                           | --              | --                               | --                     | USGS;Z  |
| SBB 1             | 16.0                     | 05-01-89              | T                    | --                           | --              | --                               | --                     | USGS;Z  |
| SBB 3             | --                       | ----                  | T                    | --                           | --              | --                               | --                     | USGS;Z  |

A-111

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user       | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of material of finish section or (feet) spring | Casing type | Type of open well |
|-------------------|----------|-----------|---------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|-------------|-------------------|
| SBN 1             | 432402   | 714649    | Earle, Mary         | 1951           | 610.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 2             | 432321   | 714420    | Hayes, Floyd        | 1961           | 830.0                            | --                        | 21.0                             | --   | --          | BrW               |
| SBN 3             | 432359   | 714513    | Heino, Harry        | --             | 830.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 4             | 432244   | 714308    | McLaughlin, Edna    | 1962           | 810.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 5             | 432404   | 714725    | Prince, Roy         | 1947           | 600.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 7             | 432310   | 714350    | Scott, Arthur       | 1958           | 750.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 8             | 432356   | 714701    | Wentworth, Fred     | 1962           | 650.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 9             | 432251   | 714513    | Baxter, Hortense    | 1958           | 810.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 10            | 432223   | 714352    | Mascardini, S.      | 1958           | 700.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 11            | 432330   | 714443    | Kepper, J.          | --             | 900.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 12            | 432319   | 714417    | MacDuffie, W.       | --             | 820.0                            | --                        | --                               | --   | --          | BrW               |
| SBN 13            | 432131   | 714617    | --                  | 1988           | 540.0                            | 2.0                       | 14.0                             | P  | P           | TH                |
| SBN 15            | 432255   | 714319    | Belliveau           | 1984           | 780.0                            | --                        | --                               | --   | X           | BrW               |
| SBN 16            | 432232   | 714426    | Ballam              | 1984           | 795.0                            | --                        | --                               | --   | X           | BrW               |
| SBN 17            | 432236   | 714230    | Lucia               | 1984           | 800.0                            | --                        | --                               | --   | X           | BrW               |
| SBN 19            | 432403   | 714638    | Shaw                | 1984           | 660.0                            | --                        | --                               | --   | X           | BrW               |
| SBN 20            | 432520   | 714538    | Higgs               | 1985           | 930.0                            | --                        | 80.0                             | --   | X           | BrW               |
| SBN 21            | 432134   | 714428    | Murphy              | 1985           | 720.0                            | --                        | 69.0                             | --   | X           | BrW               |
| SBN 22            | 432127   | 714429    | Cline               | 1986           | 720.0                            | --                        | 120.0                            | --   | X           | BrW               |
| SBN 23            | 432149   | 714433    | Merchant            | 1986           | 740.0                            | --                        | 12.0                             | --   | X           | BrW               |
| SBN 24            | 432355   | 714654    | Hodges              | 1984           | 660.0                            | --                        | 59.0                             | --   | X           | BrW               |
| SBN 25            | 432401   | 714648    | Merkes              | 1985           | 610.0                            | --                        | 19.0                             | --   | X           | BrW               |
| SBN 26            | 432458   | 714439    | Neal                | 1984           | 925.0                            | --                        | 80.0                             | --   | X           | BrW               |
| SBN 27            | 432453   | 714430    | Pillsbury           | 1986           | 945.0                            | --                        | 20.0                             | --   | --          | Dug               |
| SBN 28            | 432341   | 714448    | Welch               | 1986           | 880.0                            | --                        | 119.0                            | --   | X           | BrW               |
| SBN 29            | 432256   | 714436    | Center Construction | 1986           | 800.0                            | --                        | 65.0                             | --   | X           | BrW               |
| SBN 33            | 432306   | 714441    | Wormald             | 1986           | 800.0                            | --                        | 85.0                             | --   | X           | BrW               |
| SBN 34            | 432156   | 714434    | Burgess             | 1987           | 760.0                            | --                        | 20.0                             | --   | X           | BrW               |
| SBN 35            | 432155   | 714429    | Needlelast          | 1987           | 760.0                            | --                        | 20.0                             | --   | X           | BrW               |
| SBN 36            | 432252   | 714246    | Riel                | 1987           | 770.0                            | --                        | 80.0                             | --   | X           | BrW               |

Merrimack County

Salisbury--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|------------------|----------------------------------|------------------------|---------|
| SBN 1             | 16.0                     | 11-51           | H                    | 6.0                     | --               | --                               | --                     | Bedrock |
| SBN 2             | 15.0                     | 09-15-61        | H                    | 3.0                     | --               | --                               | --                     | Bedrock |
| SBN 3             | --                       | ----            | H                    | 11.0                    | --               | --                               | --                     | Bedrock |
| SBN 4             | 15.0                     | ----62          | H                    | 6.0                     | --               | --                               | --                     | Bedrock |
| SBN 5             | --                       | ----            | H                    | 3.5                     | --               | --                               | --                     | Bedrock |
| SBN 7             | --                       | ----            | H                    | 5.0                     | --               | --                               | --                     | Bedrock |
| SBN 8             | 20.0                     | 10-62           | H                    | 5.5                     | --               | --                               | --                     | Bedrock |
| SBN 9             | --                       | ----            | H                    | 10.0                    | --               | --                               | --                     | Bedrock |
| SBN 10            | --                       | ----            | H                    | 4.5                     | --               | --                               | --                     | Bedrock |
| SBN 11            | --                       | ----            | H                    | --                      | --               | --                               | --                     | Bedrock |
| SBN 12            | --                       | ----            | H                    | 2.0                     | --               | --                               | --                     | USGS;Z  |
| SBN 13            | 12.2                     | 07-08-89        | T                    | --                      | --               | --                               | --                     | USGS;Z  |
| SBN 15            | --                       | ----            | H                    | 50.0                    | --               | --                               | 1.0                    | USGS;Z  |
| SBN 16            | 20.0                     | 11-07-84        | H                    | 15.0                    | --               | --                               | 1.5                    | USGS;Z  |
| SBN 17            | --                       | ----            | H                    | 3.0                     | --               | --                               | .5                     | USGS;Z  |
| SBN 19            | --                       | ----            | H                    | 6.0                     | --               | --                               | .5                     | USGS;Z  |
| SBN 20            | --                       | ----            | H                    | 2.5                     | --               | --                               | .5                     | USGS;Z  |
| SBN 21            | 16.0                     | 07-19-85        | H                    | 1.0                     | --               | --                               | 1.0                    | USGS;Z  |
| SBN 22            | --                       | ----            | H                    | 3.5                     | --               | --                               | .5                     | USGS;Z  |
| SBN 23            | 25.0                     | 03-13-86        | H                    | 1.0                     | --               | --                               | .5                     | USGS;Z  |
| SBN 24            | --                       | ----            | H                    | 6.0                     | --               | --                               | 1.0                    | USGS;Z  |
| SBN 25            | --                       | ----            | H                    | 10.0                    | --               | --                               | 1.0                    | USGS;Z  |
| SBN 26            | --                       | ----            | H                    | 1.5                     | --               | --                               | 1.0                    | USGS;Z  |
| SBN 27            | 14.0                     | 09-19-86        | --                   | --                      | --               | --                               | --                     | USGS;Z  |
| SBN 28            | --                       | ----            | H                    | 2.5                     | --               | --                               | 1.0                    | USGS;Z  |
| SBN 29            | 8.0                      | 11-07-86        | H                    | 9.0                     | --               | --                               | 1.0                    | USGS;Z  |
| SBN 33            | 2.0                      | 09-03-86        | H                    | 5.0                     | --               | --                               | .8                     | USGS;Z  |
| SBN 34            | --                       | ----            | H                    | 3.5                     | --               | --                               | .5                     | USGS;Z  |
| SBN 35            | --                       | ----            | H                    | 3.5                     | --               | --                               | .5                     | USGS;Z  |
| SBN 36            | --                       | ----            | H                    | 30.0                    | --               | --                               | .5                     | USGS;Z  |

Merrimack County

Salisbury--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Type of open section or spring | Depth to bottom of well (feet) |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--------------------------------|--------------------------------|
| SBW 37            | 432328   | 714712    | Wunderlich    | 1987           | 620.0                            | --                        | 16.0                             | --              | X              | BrW                            | --                             |
| SBW 38            | 432301   | 714443    | London        | 1987           | 820.0                            | --                        | 34.0                             | --              | X              | BrW                            | --                             |
| SBW 40            | 432221   | 714425    | Linehan       | 1987           | 820.0                            | --                        | 19.0                             | --              | X              | BrW                            | --                             |
| SBW 43            | 432249   | 714434    | Rosengren     | 1987           | 800.0                            | --                        | 99.0                             | --              | X              | BrW                            | --                             |
| SBW 44            | 432204   | 714424    | Nicosia       | 1987           | 820.0                            | --                        | 19.0                             | --              | X              | BrW                            | --                             |
| SBW 45            | 432319   | 714423    | Philips       | 1987           | 830.0                            | --                        | 62.0                             | --              | X              | BrW                            | --                             |
| SBW 46            | 432217   | 714409    | Nixon         | 1987           | 760.0                            | --                        | 29.0                             | --              | X              | BrW                            | --                             |
| SBW 49            | 432245   | 714303    | Woods         | 1987           | 810.0                            | --                        | 74.0                             | --              | X              | BrW                            | --                             |

Merrimack County

Salisbury--Continued

|        |      |          |   |      |    |     |  |
|--------|------|----------|---|------|----|-----|--|
| SBW 37 | 10.0 | 05-17-87 | H | 12.0 | -- | 1.0 |  |
| SBW 38 | --   | ----     | H | 8.0  | -- | .8  |  |
| SBW 40 | 18.0 | 09-22-87 | H | 4.0  | -- | .8  |  |
| SBW 43 | --   | ----     | H | 3.5  | -- | 1.0 |  |
| SBW 44 | --   | ----     | H | --   | -- | --  |  |
| SBW 45 | 3.0  | 12-01-87 | H | 30.0 | -- | 1.0 |  |
| SBW 46 | 70.0 | 12-01-87 | H | 10.0 | -- | 1.0 |  |
| SBW 49 | 13.0 | 11-02-87 | H | 1.8  | -- | 1.0 |  |

Merrimack County

Salisbury--Continued

| Local site number | Water Depth (feet) | Level Date (mm-dd-yy) | Use of site or water | Max. yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------|-----------------------|----------------------|----------------------|------------------|----------------------------------|------------------------|---------|
| SBW 37            | 10.0               | 05-17-87              | H                    | 12.0                 | --               | --                               | 1.0                    |         |
| SBW 38            | --                 | ----                  | H                    | 8.0                  | --               | --                               | .8                     |         |
| SBW 40            | 18.0               | 09-22-87              | H                    | 4.0                  | --               | --                               | .8                     |         |
| SBW 43            | --                 | ----                  | H                    | 3.5                  | --               | --                               | 1.0                    |         |
| SBW 44            | --                 | ----                  | H                    | --                   | --               | --                               | --                     |         |
| SBW 45            | 3.0                | 12-01-87              | H                    | 30.0                 | --               | --                               | 1.0                    |         |
| SBW 46            | 70.0               | 12-01-87              | H                    | 10.0                 | --               | --                               | 1.0                    |         |
| SBW 49            | 13.0               | 11-02-87              | H                    | 1.8                  | --               | --                               | 1.0                    |         |

Sutton

|        |    |      |   |    |    |    |    |                          |
|--------|----|------|---|----|----|----|----|--------------------------|
| SYB 1  | -- | ---- | T | -- | -- | -- | -- | Bridge 146/107 boring 4  |
| SYB 2  | -- | ---- | T | -- | -- | -- | -- | Bridge 085/161 boring 4  |
| SYB 3  | -- | ---- | T | -- | -- | -- | -- | Bridge 192/057 boring 10 |
| SYB 4  | -- | ---- | T | -- | -- | -- | -- | Bridge 191/058 boring 2  |
| SYB 5  | -- | ---- | T | -- | -- | -- | -- | Bridge 130/117 boring 17 |
| SYB 6  | -- | ---- | T | -- | -- | -- | -- | Bridge 129/116 boring 9  |
| SYB 7  | -- | ---- | T | -- | -- | -- | -- | Bridge 109/145 boring 16 |
| SYB 8  | -- | ---- | T | -- | -- | -- | -- | Bridge 109/144 boring 8  |
| SYB 9  | -- | ---- | T | -- | -- | -- | -- | Bridge 084/160 boring 4  |
| SYB 10 | -- | ---- | T | -- | -- | -- | -- | USGS;2                   |

Sutton

|        |      |          |   |      |    |    |    |         |
|--------|------|----------|---|------|----|----|----|---------|
| SYW 1  | --   | ----     | H | 20.0 | -- | -- | -- | Bedrock |
| SYW 2  | --   | ----     | H | 4.5  | -- | -- | -- | Bedrock |
| SYW 4  | 54.0 | ----     | H | 20.0 | -- | -- | -- | Bedrock |
| SYW 6  | 45.0 | ----63   | H | 1.3  | -- | -- | -- | Bedrock |
| SYW 7  | 30.0 | 10-07-60 | H | 10.0 | -- | -- | -- | Bedrock |
| SYW 8  | --   | ----     | H | 4.0  | -- | -- | -- | Bedrock |
| SYW 9  | 8.0  | ----65   | H | 15.0 | -- | -- | -- | Bedrock |
| SYW 10 | 15.0 | 09-12-53 | H | 6.0  | -- | -- | -- | Bedrock |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or spring (feet) |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|
| SW 11             | 431746   | 715644    | Mitchell                | 1958           | 870.0                            | --                        | 14.0                             | --              | --             | BrW   |
| SW 12             | 431741   | 715647    | Wise, Frank             | 1960           | 850.0                            | --                        | 14.0                             | --              | --             | BrW   |
| SW 14             | 431745   | 715649    | Anderson & Rogers       | 1958           | 860.0                            | --                        | 16.0                             | --              | --             | BrW   |
| SW 15             | 431745   | 715649    | Anderson & Rogers       | 1961           | 860.0                            | --                        | 13.0                             | --              | --             | BrW   |
| SW 16             | 432138   | 715635    | --                      | 1988           | 920.0                            | 2.0                       | 18.0                             | P               | 20.0           | TH  |
| SW 18             | 432259   | 715731    | Evans                   | 1986           | 1090.0                           | --                        | 19.0                             | --              | X              | BrW   |
| SW 19             | 432343   | 715627    | Lake Sunapee County Dev | 1987           | 890.0                            | --                        | 16.0                             | --              | X              | BrW   |
| SW 20             | 432328   | 715756    | Hunter                  | 1987           | 990.0                            | --                        | 30.0                             | --              | X              | BrW   |
| SW 21             | 432257   | 715729    | Walls                   | 1987           | 1100.0                           | --                        | 85.0                             | --              | X              | BrW   |
| SW 23             | 431735   | 715658    | Bagaty, Floyd           | 1960           | 860.0                            | --                        | 10.0                             | --              | --             | BrW   |
| SW 24             | 432046   | 715680    | Bettoney                | 1984           | 1020.0                           | --                        | 69.0                             | --              | X              | BrW   |
| SW 25             | 432244   | 715545    | Whitehead               | 1984           | 970.0                            | --                        | 19.0                             | --              | X              | BrW   |
| SW 26             | 432238   | 715641    | Gundersen               | 1984           | 980.0                            | --                        | 57.0                             | --              | X              | BrW   |
| SW 28             | 432036   | 715905    | Hart                    | 1984           | 1160.0                           | --                        | 40.0                             | --              | X              | BrW   |
| SW 29             | 431757   | 715502    | Bastille                | 1985           | 800.0                            | --                        | 13.0                             | --              | --             | Dug   |
| SW 30             | 432005   | 715706    | Merrimack Cnty Phone Co | 1985           | 730.0                            | --                        | 50.0                             | --              | X              | BrW   |
| SW 31             | 431916   | 715535    | Doran                   | 1985           | 760.0                            | --                        | 63.0                             | --              | X              | BrW   |
| SW 32             | 431830   | 715556    | Hurd                    | 1985           | 850.0                            | --                        | 169.0                            | --              | X              | BrW   |
| SW 33             | 432003   | 715704    | Quinley                 | 1985           | 730.0                            | --                        | 39.0                             | --              | X              | BrW   |
| SW 34             | 432003   | 715718    | Huntoon                 | 1985           | 730.0                            | --                        | 29.0                             | --              | X              | BrW   |
| SW 35             | 431906   | 715606    | Chalmers                | 1985           | 720.0                            | --                        | 29.0                             | --              | X              | BrW   |
| SW 36             | 432140   | 715559    | Bailey                  | 1986           | 940.0                            | --                        | 40.0                             | --              | X              | BrW   |
| SW 37             | 432315   | 715610    | Williams                | 1986           | 860.0                            | --                        | 30.0                             | --              | X              | BrW   |
| SW 38             | 431931   | 715536    | Hunter                  | 1984           | 780.0                            | --                        | 13.0                             | --              | --             | Dug   |
| SW 40             | 432100   | 715929    | Bennette                | 1986           | 1360.0                           | --                        | 20.0                             | --              | X              | BrW   |
| SW 41             | 431723   | 715709    | Howe                    | 1985           | 950.0                            | --                        | 100.0                            | --              | X              | BrW   |
| SW 42             | 431833   | 715556    | Trinity Gospel Church   | 1986           | 860.0                            | --                        | 1.0                              | --              | --             | Dug   |
| SW 43             | 431904   | 715815    | Reney                   | 1985           | 860.0                            | --                        | 74.0                             | --              | X              | BrW   |
| SW 44             | 431727   | 715659    | Harwood                 | 1986           | 900.0                            | --                        | 112.0                            | --              | X              | BrW   |
| SW 45             | 431740   | 715655    | Adzima                  | 1986           | 860.0                            | --                        | 19.0                             | --              | X              | BrW   |

Merrimack County

Sutton--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or spring (feet) |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|
| SW 11             | 5.0      | 11-10-58  | H             | 4.0            | --                               | --                        | --                               | --              | --             | Bedrock   |
| SW 12             | --       | ----      | H             | 7.0            | --                               | --                        | --                               | --              | --             | Bedrock   |
| SW 14             | 25.0     | 11-15-58  | H             | 1.5            | --                               | --                        | --                               | --              | --             | Bedrock   |
| SW 15             | 14.0     | 03-24-61  | H             | 2.0            | --                               | --                        | --                               | --              | --             | Bedrock   |
| SW 16             | 3.2      | 06-27-89  | T             | --             | --                               | --                        | --                               | --              | --             | USGS;Z  |
| SW 18             | --       | ----      | H             | --             | --                               | --                        | --                               | --              | --             | --  |
| SW 19             | 7.0      | 02-02-87  | H             | 6.0            | --                               | --                        | --                               | --              | 0.3            | --  |
| SW 20             | --       | ----      | H             | 3.0            | --                               | --                        | --                               | --              | .5             | --  |
| SW 21             | --       | ----      | H             | 5.0            | --                               | --                        | --                               | --              | .5             | --  |
| SW 23             | --       | ----      | H             | 7.0            | --                               | --                        | --                               | --              | --             | Bedrock   |
| SW 24             | --       | ----      | H             | 2.0            | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 25             | --       | ----      | H             | 3.0            | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 26             | --       | ----      | H             | 30.0           | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 28             | 14.5     | 09-03-84  | H             | 14.0           | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 29             | 10.0     | 08-25-85  | H             | 1.0            | --                               | --                        | --                               | --              | .3             | --  |
| SW 30             | --       | ----      | H             | 20.0           | --                               | --                        | --                               | --              | .3             | --  |
| SW 31             | 42.0     | 08-14-85  | H             | 29.0           | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 32             | --       | ----      | H             | 20.0           | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 33             | --       | ----      | H             | 12.0           | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 34             | --       | ----      | H             | --             | --                               | --                        | --                               | --              | --             | --  |
| SW 35             | --       | ----      | H             | 7.5            | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 36             | 30.0     | 11-03-86  | H             | 25.0           | --                               | --                        | --                               | --              | .5             | --  |
| SW 37             | 30.0     | 11-04-86  | H             | 4.5            | --                               | --                        | --                               | --              | .5             | --  |
| SW 38             | --       | ----      | H             | --             | --                               | --                        | --                               | --              | --             | --  |
| SW 40             | --       | ----      | H             | 1.0            | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 41             | --       | ----      | H             | .5             | --                               | --                        | --                               | --              | 1.0            | --  |
| SW 42             | 6.0      | 12-18-86  | P             | --             | --                               | --                        | --                               | --              | --             | --  |
| SW 43             | --       | ----      | H             | 20.0           | --                               | --                        | --                               | --              | .3             | --  |
| SW 44             | --       | ----      | H             | 6.0            | --                               | --                        | --                               | --              | .5             | --  |
| SW 45             | --       | ----      | H             | 9.0            | --                               | --                        | --                               | --              | .8             | --  |

Merrimack County

Sutton--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or spring (feet) |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|
| SW 11             | 431746   | 715644    | Mitchell                | 1958           | 870.0                            | --                        | 14.0                             | --              | --             | BrW   |
| SW 12             | 431741   | 715647    | Wise, Frank             | 1960           | 850.0                            | --                        | 14.0                             | --              | --             | BrW   |
| SW 14             | 431745   | 715649    | Anderson & Rogers       | 1958           | 860.0                            | --                        | 16.0                             | --              | --             | BrW   |
| SW 15             | 431745   | 715649    | Anderson & Rogers       | 1961           | 860.0                            | --                        | 13.0                             | --              | --             | BrW   |
| SW 16             | 432138   | 715635    | --                      | 1988           | 920.0                            | 2.0                       | 18.0                             | P               | 20.0           | TH  |
| SW 18             | 432259   | 715731    | Evans                   | 1986           | 1090.0                           | --                        | 19.0                             | --              | X              | BrW   |
| SW 19             | 432343   | 715627    | Lake Sunapee County Dev | 1987           | 890.0                            | --                        | 16.0                             | --              | X              | BrW   |
| SW 20             | 432328   | 715756    | Hunter                  | 1987           | 990.0                            | --                        | 30.0                             | --              | X              | BrW   |
| SW 21             | 432257   | 715729    | Walls                   | 1987           | 1100.0                           | --                        | 85.0                             | --              | X              | BrW   |
| SW 23             | 431735   | 715658    | Bagaty, Floyd           | 1960           | 860.0                            | --                        | 10.0                             | --              | --             | BrW   |
| SW 24             | 432046   | 715680    | Bettoney                | 1984           | 1020.0                           | --                        | 69.0                             | --              | X              | BrW   |
| SW 25             | 432244   | 715545    | Whitehead               | 1984           | 970.0                            | --                        | 19.0                             | --              | X              | BrW   |
| SW 26             | 432238   | 715641    | Gundersen               | 1984           | 980.0                            | --                        | 57.0                             | --              | X              | BrW   |
| SW 28             | 432036   | 715905    | Hart                    | 1984           | 1160.0                           | --                        | 40.0                             | --              | X              | BrW   |
| SW 29             | 431757   | 715502    | Bastille                | 1985           | 800.0                            | --                        | 13.0                             | --              | --             | Dug   |
| SW 30             | 432005   | 715706    | Merrimack Cnty Phone Co | 1985           | 730.0                            | --                        | 50.0                             | --              | X              | BrW   |
| SW 31             | 431916   | 715535    | Doran                   | 1985           | 760.0                            | --                        | 63.0                             | --              | X              | BrW   |
| SW 32             | 431830   | 715556    | Hurd                    | 1985           | 850.0                            | --                        | 169.0                            | --              | X              | BrW   |
| SW 33             | 432003   | 715704    | Quinley                 | 1985           | 730.0                            | --                        | 39.0                             | --              | X              | BrW   |
| SW 34             | 432003   | 715718    | Huntoon                 | 1985           | 730.0                            | --                        | 29.0                             | --              | X              | BrW   |
| SW 35             | 431906   | 715606    | Chalmers                | 1985           | 720.0                            | --                        | 29.0                             | --              | X              | BrW   |
| SW 36             | 432140   | 715559    | Bailey                  | 1986           | 940.0                            | --                        | 40.0                             | --              | X              | BrW   |
| SW 37             | 432315   | 715610    | Williams                | 1986           | 860.0                            | --                        | 30.0                             | --              | X              | BrW   |
| SW 38             | 431931   | 715536    | Hunter                  | 1984           | 780.0                            | --                        | 13.0                             | --              | --             | Dug   |
| SW 40             | 432100   | 715929    | Bennette                | 1986           | 1360.0                           | --                        | 20.0                             | --              | X              | BrW   |
| SW 41             | 431723   | 715709    | Howe                    | 1985           | 950.0                            | --                        | 100.0                            | --              | X              | BrW   |
| SW 42             | 431833   | 715556    | Trinity Gospel Church   | 1986           | 860.0                            | --                        | 1.0                              | --              | --             | Dug   |
| SW 43             | 431904   | 715815    | Reney                   | 1985           | 860.0                            | --                        | 74.0                             | --              | X              | BrW   |
| SW 44             | 431727   | 715659    | Harwood                 | 1986           | 900.0                            | --                        | 112.0                            | --              | X              | BrW   |
| SW 45             | 431740   | 715655    | Adzima                  | 1986           | 860.0                            | --                        | 19.0                             | --              | X              | BrW   |

Merrimack County

Sutton--Continued



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user            | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring | Type of well | Remarks |
|-------------------|----------|-----------|--------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|---------|
| SYW 46            | 431752   | 715239    | Carroll                  | 1986           | 520.0                            | --                        | 11.0                             | --              | --             | --   | Dug          |         |
| SYW 47            | 431727   | 715708    | Oxford                   | 1986           | 940.0                            | --                        | 44.0                             | --              | X              | --   | BrW          |         |
| SYW 48            | 432033   | 715831    | Wren                     | 1986           | 1070.0                           | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| SYW 49            | 432302   | 715444    | Hanson                   | 1984           | 860.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| SYW 50            | 431907   | 715819    | Bailey                   | 1986           | 900.0                            | --                        | 80.0                             | --              | X              | --   | BrW          |         |
| SYW 51            | 432029   | 715655    | Thomas P. Johnson Forest | 1986           | 930.0                            | --                        | 11.0                             | --              | X              | --   | BrW          |         |
| SYW 52            | 431857   | 715618    | Brown                    | 1986           | 780.0                            | --                        | 105.0                            | --              | X              | --   | BrW          |         |
| SYW 53            | 432303   | 715724    | New London Group         | 1986           | 1140.0                           | --                        | 49.0                             | --              | X              | --   | BrW          |         |
| SYW 54            | 431734   | 715420    | Deschenes                | 1986           | 820.0                            | --                        | 29.0                             | --              | X              | --   | BrW          |         |
| SYW 55            | 431814   | 715629    | Harrison                 | 1986           | 970.0                            | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| SYW 56            | 432139   | 715623    | Rowe                     | 1987           | 940.0                            | --                        | 39.0                             | --              | X              | --   | BrW          |         |
| SYW 57            | 432135   | 715618    | Merrill                  | 1987           | 910.0                            | --                        | 32.0                             | --              | X              | --   | BrW          |         |
| SYW 58            | 431817   | 715619    | King                     | 1987           | 900.0                            | --                        | 99.0                             | --              | X              | --   | BrW          |         |
| SYW 59            | 432320   | 715612    | Blass                    | 1987           | 860.0                            | --                        | 14.5                             | --              | X              | --   | BrW          |         |
| SYW 60            | 432322   | 715613    | Voss                     | 1987           | 860.0                            | --                        | 28.0                             | --              | X              | --   | BrW          |         |
| SYW 61            | 432007   | 715711    | O'Connor                 | 1984           | 750.0                            | --                        | 13.0                             | --              | X              | --   | BrW          |         |
| SYW 62            | 431719   | 715544    | Hurd                     | 1987           | 950.0                            | --                        | 199.0                            | --              | X              | --   | BrW          |         |
| SYW 63            | 432338   | 715502    | Galluzza                 | 1987           | 840.0                            | --                        | 84.0                             | --              | X              | --   | BrW          |         |
| SYW 64            | 432004   | 715710    | Commettee                | 1987           | 730.0                            | --                        | 29.0                             | --              | X              | --   | BrW          |         |
| SYW 65            | 432021   | 715616    | Luongo                   | 1987           | 900.0                            | --                        | 120.0                            | --              | X              | --   | BrW          |         |
| SYW 66            | 432004   | 715712    | Salathe                  | 1987           | 730.0                            | --                        | 19.0                             | --              | X              | --   | BrW          |         |
| SYW 67            | 431809   | 715252    | Blachly Jr.              | 1987           | 960.0                            | --                        | 14.0                             | --              | X              | --   | BrW          |         |
| SYW 68            | 431741   | 715639    | Vivian                   | 1987           | 830.0                            | --                        | 32.0                             | --              | X              | --   | BrW          |         |
| SYW 69            | 431854   | 715714    | Blanco                   | 1987           | 890.0                            | --                        | 59.0                             | --              | X              | --   | BrW          |         |
| SYW 70            | 431915   | 715816    | WheLAN                   | 1987           | 930.0                            | --                        | 40.0                             | --              | X              | --   | BrW          |         |
| SYW 71            | 432226   | 715638    | Oullette                 | 1987           | 988.0                            | --                        | 38.0                             | --              | X              | --   | BrW          |         |
| SYW 72            | 432134   | 715527    | Nelson                   | 1987           | 940.0                            | --                        | 35.0                             | --              | X              | --   | BrW          |         |
| SYW 73            | 431808   | 715625    | Bailey                   | 1987           | 900.0                            | --                        | 29.0                             | --              | X              | --   | BrW          |         |
| SYW 74            | 431811   | 715428    | Hagee                    | 1987           | 580.0                            | --                        | 29.0                             | --              | X              | --   | BrW          |         |
| SYW 75            | 432135   | 715620    | Virgin                   | 1988           | 910.0                            | --                        | 30.0                             | --              | X              | --   | BrW          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum well yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min) / ft) | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|--------------|----------------------|------------------------------|------------------|------------------------------------|------------------------|---------|
| SYW 46            | 10-02-86                    | 9.0          | H                    | 2.0                          | --               | --                                 | --                     |         |
| SYW 47            | ----                        | --           | H                    | 5.0                          | --               | --                                 | 0.8                    |         |
| SYW 48            | 09-05-86                    | 2.0          | H                    | 4.0                          | --               | --                                 | 1.0                    |         |
| SYW 49            | ----                        | --           | H                    | 2.0                          | --               | --                                 | 1.0                    |         |
| SYW 50            | 04-23-86                    | 4.0          | H                    | 11.0                         | --               | --                                 | .5                     |         |
| SYW 51            | ----                        | --           | H                    | .5                           | --               | --                                 | --                     |         |
| SYW 52            | 06-07-86                    | 15.0         | H                    | 7.5                          | --               | --                                 | 1.0                    |         |
| SYW 53            | ----                        | --           | H                    | 10.0                         | --               | --                                 | 1.0                    |         |
| SYW 54            | ----                        | --           | H                    | 25.0                         | --               | --                                 | 1.0                    |         |
| SYW 55            | ----                        | --           | H                    | 1.0                          | --               | --                                 | 1.0                    |         |
| SYW 56            | 02-11-87                    | 50.0         | H                    | .8                           | --               | --                                 | 1.0                    |         |
| SYW 57            | 04-17-87                    | 20.0         | H                    | 2.0                          | --               | --                                 | 1.0                    |         |
| SYW 58            | 05-23-87                    | 5.0          | H                    | 3.0                          | --               | --                                 | .5                     |         |
| SYW 59            | 03-05-87                    | 12.0         | H                    | 10.0                         | --               | --                                 | 1.0                    |         |
| SYW 60            | ----                        | --           | H                    | 6.0                          | --               | --                                 | .8                     |         |
| SYW 61            | ----                        | --           | H                    | 3.0                          | --               | --                                 | 1.0                    |         |
| SYW 62            | ----                        | --           | Z                    | 20.0                         | --               | --                                 | .5                     |         |
| SYW 63            | ----                        | --           | H                    | 2.0                          | --               | --                                 | 1.0                    |         |
| SYW 64            | ----                        | --           | H                    | 30.0                         | --               | --                                 | .8                     |         |
| SYW 65            | ----                        | --           | H                    | 20.0                         | --               | --                                 | .5                     |         |
| SYW 66            | 08-19-87                    | 15.0         | H                    | 4.0                          | --               | --                                 | 1.0                    |         |
| SYW 67            | ----                        | --           | H                    | 8.0                          | --               | --                                 | 1.0                    |         |
| SYW 68            | ----                        | --           | H                    | 8.0                          | --               | --                                 | 1.0                    |         |
| SYW 69            | ----                        | --           | H                    | 4.0                          | --               | --                                 | --                     |         |
| SYW 70            | ----                        | --           | H                    | 15.0                         | --               | --                                 | --                     |         |
| SYW 71            | ----                        | --           | H                    | 5.0                          | --               | --                                 | --                     |         |
| SYW 72            | 08-21-87                    | 15.0         | H                    | 10.0                         | --               | --                                 | --                     |         |
| SYW 73            | ----                        | --           | H                    | 4.0                          | --               | --                                 | 1.0                    |         |
| SYW 74            | ----                        | --           | H                    | 6.0                          | --               | --                                 | 1.0                    |         |
| SYW 75            | 01-21-88                    | 4.0          | H                    | 2.0                          | --               | --                                 | .8                     |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open well or finish section (feet) | Type of well |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|---|--------------|
| SW 76             | 431708   | 715622    | Dube                    | 1988           | 850.0                            | --                        | 39.0                             | --  | BrW          |
| SW 77             | 432254   | 715719    | Lynch                   | 1988           | 1140.0                           | --                        | 19.0                             | X   | BrW          |
| SW 78             | 432251   | 715611    | Syvertsen               | 1988           | 970.0                            | --                        | 37.0                             | X   | BrW          |
| SW 79             | 432230   | 715556    | Edmunds                 | 1988           | 1020.0                           | --                        | 19.0                             | X   | BrW          |
| SW 80             | 431941   | 715230    | Barthelemy              | 1988           | 770.0                            | --                        | 13.0                             | S   | Dug          |
| SW 81             | 432142   | 715618    | Blakeman                | 1988           | 940.0                            | --                        | 14.0                             | X   | BrW          |
| SW 82             | 431928   | 715657    | McTeley                 | 1988           | 760.0                            | --                        | 19.0                             | X   | BrW          |
| SW 83             | 431730   | 715651    |                         | --             | 850.0                            | --                        | 39.0                             | X   | BrW          |
| SW 84             | 432057   | 715543    | Cleveland               | 1988           | 950.0                            | --                        | 39.0                             | X   | BrW          |
| SW 85             | 432314   | 715609    | Parsons                 | 1988           | 860.0                            | --                        | 19.0                             | X   | BrW          |
| SW 86             | 431915   | 715148    | Thomas, B.              | 1988           | 800.0                            | --                        | 23.0                             | X   | BrW          |
| SW 87             | 432136   | 715530    | Beistel, K.             | 1988           | 960.0                            | --                        | 19.0                             | X   | BrW          |
| SW 88             | 432045   | 715412    | Ryan                    | 1988           | 840.0                            | --                        | 29.0                             | X   | BrW          |
| SW 89             | 431800   | 715627    | King                    | 1988           | 880.0                            | --                        | 73.0                             | X   | BrW          |
| SW 90             | 432036   | 715827    | Trufx                   | 1988           | 1040.0                           | --                        | 47.0                             | X   | BrW          |
| SW 91             | 431748   | 715421    | Connell                 | 1988           | 550.0                            | --                        | 20.0                             | X   | BrW          |
| SW 92             | 432323   | 715715    | Angelle                 | 1987           | 1070.0                           | --                        | 19.0                             | X   | BrW          |
| SW 93             | 431734   | 715226    | Eastman                 | 1988           | 560.0                            | --                        | 20.0                             | X   | BrW          |
| SW 94             | 432334   | 715740    | Welch                   | 1988           | 980.0                            | --                        | 14.0                             | X   | BrW          |
| SW 95             | 432323   | 715628    | Kent                    | 1988           | 940.0                            | --                        | 30.0                             | X   | BrW          |
| SW 96             | 431729   | 715553    | Lord                    | 1989           | 900.0                            | --                        | 100.0                            | X   | BrW          |
| SW 97             | 432045   | 715648    | Glazer                  | 1989           | 1030.0                           | --                        | 59.0                             | X   | BrW          |
| SW 98             | 431716   | 715545    | Morel                   | 1989           | 940.0                            | --                        | 199.0                            | X   | BrW          |
| SW 99             | 432321   | 715619    | Berger                  | 1989           | 900.0                            | --                        | 19.0                             | X   | BrW          |
| SW 100            | 432019   | 715552    | Prince                  | 1989           | 1180.0                           | --                        | 19.0                             | X   | BrW          |
| SW 101            | 432343   | 715638    | Lake Sunapee Country Cl | 1985           | 940.0                            | --                        | --                               | --  |              |
| SW 102            | 432345   | 715637    | Lake Sunapee Country Cl | 1985           | 965.0                            | --                        | --                               | --  |              |
| SW 103            | 432344   | 715635    | Lake Sunapee Country Cl | 1985           | 955.0                            | --                        | --                               | --  |              |
| SW 104            | 432343   | 715636    | Lake Sunapee Country Cl | 1985           | 920.0                            | --                        | --                               | --  |              |
| SW 105            | 432251   | 715433    | Palmer                  | 1989           | 850.0                            | 6                         | 120.0                            | S X   | 440.0 BrW    |
| SW 106            | 432316   | 715359    | Thompson                | 1989           | 840.0                            | 6                         | 200.0                            | S X   | 460.0 BrW    |

A-120

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|-------------------------|-----------------|----------------------------------|------------------------|---------|
| SW 76             | 20.0                     | 02-25-88        | H                    | 8.0                     | --              | --                               | 0.8                    |         |
| SW 77             | 3.0                      | 01-05-88        | H                    | 2.0                     | --              | --                               | 1.0                    |         |
| SW 78             | --                       | ----            | H                    | 50.0                    | --              | --                               | --                     |         |
| SW 79             | --                       | ----            | H                    | 2.0                     | --              | --                               | 2.0                    |         |
| SW 80             | 7.0                      | 07-19-88        | H                    | 2.0                     | --              | --                               | --                     |         |
| SW 81             | --                       | ----            | H                    | 7.0                     | --              | --                               | .8                     |         |
| SW 82             | --                       | ----            | H                    | 2.0                     | --              | --                               | .8                     |         |
| SW 83             | --                       | ----            | H                    | --                      | --              | --                               | --                     |         |
| SW 84             | --                       | ----            | H                    | 2.5                     | --              | --                               | .5                     |         |
| SW 85             | 20.0                     | 10-10-88        | H                    | 10.0                    | --              | --                               | 1.0                    |         |
| SW 86             | --                       | ----            | H                    | .3                      | --              | --                               | .5                     |         |
| SW 87             | --                       | ----            | H                    | 4.0                     | --              | --                               | 1.0                    |         |
| SW 88             | --                       | ----            | H                    | 25.0                    | --              | --                               | .5                     |         |
| SW 89             | --                       | ----            | H                    | 4.0                     | --              | --                               | .8                     |         |
| SW 90             | --                       | ----            | H                    | 10.0                    | --              | --                               | .8                     |         |
| SW 91             | --                       | ----            | H                    | 6.5                     | --              | --                               | .8                     |         |
| SW 92             | 9.0                      | 10-29-87        | H                    | 7.0                     | --              | --                               | 1.0                    |         |
| SW 93             | 10.0                     | 06-15-88        | H                    | 1.0                     | --              | --                               | 1.0                    |         |
| SW 94             | --                       | ----            | H                    | 2.0                     | --              | --                               | 1.0                    |         |
| SW 95             | --                       | ----            | H                    | 6.0                     | --              | --                               | .3                     |         |
| SW 96             | --                       | ----            | H                    | 25.0                    | --              | --                               | 1.0                    |         |
| SW 97             | --                       | ----            | H                    | 20.0                    | --              | --                               | 1.0                    |         |
| SW 98             | --                       | ----            | H                    | 3.5                     | --              | --                               | 1.0                    |         |
| SW 99             | --                       | ----            | H                    | 3.5                     | --              | --                               | --                     |         |
| SW 100            | --                       | ----            | H                    | 3.0                     | --              | --                               | --                     |         |
| SW 101            | --                       | ----            | Z                    | --                      | --              | --                               | --                     |         |
| SW 102            | --                       | ----            | Z                    | --                      | --              | --                               | --                     |         |
| SW 103            | --                       | ----            | Z                    | 3.0                     | --              | --                               | 1.5                    |         |
| SW 104            | --                       | ----            | Z                    | --                      | --              | --                               | --                     |         |
| SW 105            | --                       | ----            | H                    | 40.0                    | --              | --                               | --                     |         |
| SW 106            | --                       | ----            | H                    | 10.0                    | --              | --                               | --                     |         |

A-121

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or User  | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of open well (feet) | Type of well or spring |
|-------------------|----------|-----------|----------------|----------------|----------------------------------|---------------------------|----------------------------------|-------------------------------------|------------------------|
| WCB 2             | 431601   | 714609    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 3             | 431516   | 714509    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 4             | 431449   | 714454    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 5             | 431503   | 714358    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 6             | 431719   | 715309    | NH PUB WKS HHY | --             | 500.0                            | --                        | --                               | TH                                  |                        |
| WCB 7             | 431773   | 715319    | NH PUB WKS HHY | --             | 500.0                            | --                        | --                               | TH                                  |                        |
| WCB 8             | 431720   | 715009    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 9             | 431649   | 714931    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 10            | 431643   | 714917    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 11            | 431644   | 714917    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 12            | 431449   | 714654    | NH PUB WKS HHY | --             | 410.0                            | --                        | --                               | TH                                  |                        |
| WCB 13            | 431449   | 714656    | NH PUB WKS HHY | --             | 410.0                            | --                        | --                               | TH                                  |                        |
| WCB 14            | 431517   | 714506    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 15            | 431558   | 714610    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 16            | 431622   | 714814    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 17            | 431625   | 714759    | NH PUB WKS HHY | --             | 410.0                            | --                        | --                               | TH                                  |                        |
| WCB 18            | 431620   | 714719    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 19            | 431621   | 714720    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 20            | 431622   | 714736    | NH PUB WKS HHY | --             | 400.0                            | --                        | --                               | TH                                  |                        |
| WCB 21            | 431626   | 714834    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 22            | 431626   | 714834    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 23            | 431641   | 714919    | NH PUB WKS HHY | --             | 440.0                            | --                        | --                               | TH                                  |                        |
| WCB 24            | 431641   | 714920    | NH PUB WKS HHY | --             | 440.0                            | --                        | --                               | TH                                  |                        |
| WCB 25            | 431716   | 715009    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 26            | 431716   | 715012    | NH PUB WKS HHY | --             | 420.0                            | --                        | --                               | TH                                  |                        |
| WCB 27            | 431721   | 715012    | NH PUB WKS HHY | --             | 440.0                            | --                        | --                               | TH                                  |                        |
| WCB 28            | 431721   | 715015    | NH PUB WKS HHY | --             | 440.0                            | --                        | --                               | TH                                  |                        |
| WCB 29            | 431449   | 714536    | Town of Warner | --             | 480.0                            | --                        | --                               | TH                                  |                        |
| WCB 30            | 431416   | 714538    | Town of Warner | --             | 480.0                            | --                        | --                               | TH                                  |                        |

Merrimack County

Warner

Appendix A.--Description of wells and borings--Continued

| Local site number | Depth (feet) | Water level Date (mm-od-yy) | Use of site or water | Maximum yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min)/ft | Pumping period (hours) | Remarks                  |
|-------------------|--------------|-----------------------------|----------------------|-------------------------|-----------------|--------------------------------|------------------------|--------------------------|
| WCB 2             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 221/156 boring 4  |
| WCB 3             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 243/166 boring 22 |
| WCB 4             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 255/164 boring 20 |
| WCB 5             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 254/180 boring 4  |
| WCB 6             | 1.2          | 11-20-35                    | T                    | --                      | --              | --                             | --                     | Bridge 144/056 boring 4  |
| WCB 7             | 3.0          | 11-20-35                    | T                    | --                      | --              | --                             | --                     | Bridge 145/053 boring 5  |
| WCB 8             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 165/106 boring 36 |
| WCB 9             | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 181/112 boring 2  |
| WCB 10            | 3.8          | 07------66                  | T                    | --                      | --              | --                             | --                     | Bridge 183/114 boring 1  |
| WCB 11            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 183/114 boring 7  |
| WCB 12            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 255/164 boring 17 |
| WCB 13            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 255/163 boring 8  |
| WCB 14            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 244/167 boring 1  |
| WCB 15            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 222/156 boring 1  |
| WCB 16            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 199/128 boring 10 |
| WCB 17            | 26.0         | 06------65                  | T                    | --                      | --              | --                             | --                     | Bridge 202/136 boring 20 |
| WCB 18            | 4.5          | 06------65                  | T                    | --                      | --              | --                             | --                     | Bridge 206/141 boring 21 |
| WCB 19            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 206/141 boring 32 |
| WCB 20            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 204/136 boring 12 |
| WCB 21            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 195/122 boring 18 |
| WCB 22            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 196/121 Boring 2  |
| WCB 23            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 184/113 boring 3  |
| WCB 24            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 185/112 boring 11 |
| WCB 25            | --           | -----                       | T                    | 50.0                    | --              | --                             | 1                      | Bridge 166/104 boring 12 |
| WCB 26            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 166/103 boring 5  |
| WCB 27            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 164/104 boring 32 |
| WCB 28            | --           | -----                       | T                    | --                      | --              | --                             | --                     | Bridge 164/103 boring 20 |
| WCB 29            | --           | -----                       | T                    | --                      | --              | --                             | --                     | --                       |
| WCB 30            | --           | -----                       | T                    | --                      | --              | --                             | --                     | --                       |

Merrimack County

Warner

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section | Depth to bottom of well (feet) | Type of well or spring |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|------------------------|--------------------------------|------------------------|
| WCV 6             | 431628   | 714726    | Thomas, Fenton        | --             | 460.0                            | --                        | 25.0                             | --              | --                     | --                             | BrW                    |
| WCV 7             | 431625   | 714744    | Ernst, Marion         | 1959           | 440.0                            | --                        | 37.0                             | --              | --                     | --                             | BrW                    |
| WCV 9             | 431628   | 714741    | Gookin, Roy           | 1964           | 470.0                            | --                        | 58.0                             | --              | --                     | --                             | BrW                    |
| WCV 10            | 431727   | 714922    | Hill Box Company      | 1900           | 570.0                            | --                        | 16.0                             | --              | --                     | --                             | BrW                    |
| WCV 11            | 431654   | 714741    | Hill, Harold          | 1963           | 520.0                            | --                        | 21.0                             | --              | --                     | --                             | BrW                    |
| WCV 13            | 431532   | 715248    | Ladd, Paul            | 1964           | 1000.0                           | --                        | 20.0                             | --              | --                     | --                             | BrW                    |
| WCV 14            | 431812   | 714947    | Medding, Russell H.   | 1959           | 810.0                            | --                        | 50.0                             | --              | --                     | --                             | BrW                    |
| WCV 15            | 431830   | 714810    | Merrill, Marie        | 1961           | 790.0                            | --                        | --                               | --              | --                     | --                             | BrW                    |
| WCV 16            | 431629   | 714736    | Seavy, Harry A.       | 1956           | 450.0                            | --                        | 19.0                             | --              | --                     | --                             | BrW                    |
| WCV 17            | 431828   | 714955    | Wicksmith, Henry      | 1958           | 770.0                            | --                        | 33.0                             | --              | --                     | --                             | BrW                    |
| WCV 18            | 431858   | 714814    | Wallington            | 1957           | 780.0                            | --                        | --                               | --              | --                     | --                             | BrW                    |
| WCV 19            | 431629   | 714731    | La Duke, Robery       | 1951           | 450.0                            | --                        | 28.0                             | --              | --                     | --                             | BrW                    |
| WCV 20            | 431651   | 714924    | Town of Warner        | 1987           | 470.0                            | 2.5                       | 33.0                             | --              | 38.0                   | TH                             |                        |
| WCV 21            | 431654   | 714925    | Town of Warner        | 1987           | 410.0                            | --                        | 38.0                             | --              | --                     | --                             |                        |
| WCV 22            | 431701   | 714933    | --                    | 1987           | 420.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 23            | 431706   | 714948    | Town of Warner        | --             | 420.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 24            | 431704   | 714946    | Town of Warner        | --             | 410.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 25            | 431643   | 714859    | Town of Warner        | 1987           | 410.0                            | --                        | 45.0                             | --              | --                     | --                             |                        |
| WCV 27            | 431449   | 714408    | Jordan-Hilton Company | --             | 460.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 28            | 431446   | 714410    | Jordan-Hilton Company | --             | 440.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 29            | 431456   | 714412    | Jordan-Hilton Company | --             | 440.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 30            | 431446   | 714419    | Jordan-Hilton Company | --             | 420.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 31            | 431456   | 714419    | NH DEPT. ENV. SERV.   | --             | 420.0                            | --                        | --                               | --              | --                     | --                             |                        |
| WCV 32            | 431852   | 714816    | Bull                  | 1984           | 770.0                            | --                        | --                               | --              | --                     | Dug                            |                        |
| WCV 33            | 431515   | 714635    | Desjardins            | 1984           | 520.0                            | --                        | 45.0                             | --              | X                      | --                             | BrW                    |
| WCV 34            | 431550   | 714922    | Brunner               | 1984           | 910.0                            | --                        | 99.0                             | --              | X                      | --                             | BrW                    |
| WCV 35            | 431700   | 714812    | Lindblom              | 1984           | 660.0                            | --                        | 19.0                             | --              | X                      | --                             | BrW                    |
| WCV 36            | 432045   | 715105    | Bender                | 1984           | 1100.0                           | --                        | --                               | --              | X                      | --                             | BrW                    |
| WCV 37            | 431642   | 714824    | Bartlett              | 1984           | 470.0                            | --                        | 25.0                             | --              | X                      | --                             | BrW                    |
| WCV 38            | 431612   | 714655    | Wilson                | 1984           | 440.0                            | --                        | 43.0                             | --              | X                      | --                             | BrW                    |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks               |
|-------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|-----------------------|
| WCV 6             | 20.0                     | 12-13-53        | H                    | 4.5                          | --              | --                               | --                     | Bedrock               |
| WCV 7             | --                       | ----            | H                    | 20.0                         | --              | --                               | --                     | Bedrock               |
| WCV 9             | --                       | ----            | H                    | 7.5                          | --              | --                               | --                     | Bedrock               |
| WCV 10            | 12.0                     | 04-05-00        | H                    | 30.0                         | --              | --                               | --                     | Bedrock               |
| WCV 11            | 12.0                     | 11-14-63        | H                    | 3.0                          | --              | --                               | --                     | Bedrock               |
| WCV 13            | 50.0                     | 07-29-64        | H                    | 4.5                          | --              | --                               | --                     | Bedrock               |
| WCV 14            | 30.0                     | 10-01-59        | H                    | 2.0                          | --              | --                               | --                     | Bedrock               |
| WCV 15            | 10.0                     | ----61          | H                    | 3.0                          | --              | --                               | --                     | Bedrock               |
| WCV 16            | 14.0                     | 03-26-56        | H                    | 5.0                          | --              | --                               | --                     | Bedrock               |
| WCV 17            | 30.0                     | 09-26-56        | H                    | 5.0                          | --              | --                               | --                     | Bedrock               |
| WCV 18            | --                       | ----            | H                    | 7.0                          | --              | --                               | --                     | Bedrock               |
| WCV 19            | 25.0                     | 08-25-51        | H                    | 6.0                          | --              | --                               | --                     | Bedrock               |
| WCV 20            | 6.2                      | 01-22-88        | 0                    | 265.0                        | 12.0            | 22.9                             | 120                    | Municipal supply well |
| WCV 21            | 4.2                      | 04-14-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 22            | --                       | ----            | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 23            | 2.6                      | 04-17-87        | 0                    | 90.0                         | --              | --                               | 2                      |                       |
| WCV 24            | 2.6                      | 04-16-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 25            | 4.0                      | 04-09-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 27            | 2.0                      | 07-17-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 28            | 7.5                      | 07-21-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 29            | 9.2                      | 07-21-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 30            | 2.0                      | 07-22-87        | 0                    | --                           | --              | --                               | --                     |                       |
| WCV 31            | 4.0                      | 07-16-87        | T                    | --                           | --              | --                               | --                     |                       |
| WCV 32            | 2.0                      | 07-06-84        | H                    | --                           | --              | --                               | --                     |                       |
| WCV 33            | --                       | ----            | H                    | 7.0                          | --              | --                               | --                     |                       |
| WCV 34            | 35.0                     | 05-18-84        | H                    | 30.0                         | --              | --                               | 1.5                    |                       |
| WCV 35            | --                       | ----            | H                    | 9.0                          | --              | --                               | 1.5                    |                       |
| WCV 36            | --                       | ----            | H                    | 2.0                          | --              | --                               | 1.5                    |                       |
| WCV 37            | 35.0                     | 08-10-84        | H                    | 75.0                         | --              | --                               | 1.5                    |                       |
| WCV 38            | 40.0                     | 11-08-84        | H                    | 7.0                          | --              | --                               | 1.8                    |                       |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user         | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or spring (feet) | Type of well | Remarks |
|-------------------|----------|-----------|-----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|--------------|---------|
| MCW 39            | 431428   | 714526    | Healy                 | 1984           | 420.0                            | --                        | 21.0                             | --              | S              | --  | B/W          |         |
| MCW 40            | 431744   | 714758    | Vincent               | 1985           | 740.0                            | --                        | 26.0                             | --              | --             | --  | Dug          |         |
| MCW 41            | 431651   | 714934    | Inman                 | 1985           | 620.0                            | --                        | 80.0                             | --              | X              | --  | B/W          |         |
| MCW 42            | 431814   | 714703    | Nolan                 | 1985           | 540.0                            | --                        | 109.0                            | --              | X              | --  | B/W          |         |
| MCW 43            | 431614   | 714629    | Ferree                | 1985           | 450.0                            | --                        | 19.0                             | --              | X              | --  | B/W          |         |
| MCW 44            | 431546   | 714922    | Fletcher              | 1985           | 900.0                            | --                        | 184.0                            | --              | X              | --  | B/W          |         |
| MCW 45            | 431558   | 714823    | Leader                | 1985           | 520.0                            | --                        | 80.0                             | --              | X              | --  | B/W          |         |
| MCW 46            | 431619   | 714934    | Dragon                | 1985           | 640.0                            | --                        | 120.0                            | --              | X              | --  | B/W          |         |
| MCW 47            | 431556   | 714817    | Cutting               | 1985           | 520.0                            | --                        | 220.0                            | --              | X              | --  | B/W          |         |
| MCW 48            | 431744   | 714728    | Vincent               | 1985           | 740.0                            | --                        | 26.0                             | --              | --             | --  | Dug          |         |
| MCW 49            | 432013   | 715052    | Lente                 | 1985           | 900.0                            | --                        | 20.0                             | --              | X              | --  | B/W          |         |
| MCW 50            | 431720   | 714831    | Warren                | 1986           | 550.0                            | --                        | 151.0                            | --              | X              | --  | B/W          |         |
| MCW 51            | 431726   | 715213    | Richards              | 1986           | 500.0                            | --                        | 20.0                             | --              | X              | --  | B/W          |         |
| MCW 52            | 431639   | 715410    | St. Lawrence          | 1985           | 560.0                            | --                        | 40.0                             | --              | X              | --  | B/W          |         |
| MCW 53            | 431855   | 714848    | Pellitter             | 1985           | 760.0                            | --                        | 79.0                             | --              | X              | --  | B/W          |         |
| MCW 54            | 431332   | 714944    | Chagnon               | 1986           | 720.0                            | --                        | 20.0                             | --              | X              | --  | B/W          |         |
| MCW 55            | 431433   | 714517    | Cusano                | 1986           | 410.0                            | --                        | 63.0                             | --              | X              | --  | B/W          |         |
| MCW 56            | 431758   | 714721    | Brown                 | 1986           | 660.0                            | --                        | 60.0                             | --              | X              | --  | B/W          |         |
| MCW 57            | 431550   | 714924    | Whittiker             | 1986           | 920.0                            | --                        | 45.0                             | --              | X              | --  | B/W          |         |
| MCW 58            | 431608   | 715444    | Vaughan               | 1986           | 620.0                            | --                        | 105.0                            | --              | X              | --  | B/W          |         |
| MCW 59            | 431701   | 715310    | Canepe Jr.            | 1984           | 510.0                            | --                        | 59.0                             | --              | X              | --  | B/W          |         |
| MCW 60            | 431443   | 714507    | Deirkandt             | 1986           | 420.0                            | --                        | 122.0                            | --              | X              | --  | B/W          |         |
| MCW 61            | 431814   | 714703    | Nolan                 | 1986           | 540.0                            | --                        | 163.0                            | --              | X              | --  | B/W          |         |
| MCW 62            | 431610   | 715408    | Roberts               | 1986           | 760.0                            | --                        | 100.0                            | --              | X              | --  | B/W          |         |
| MCW 63            | 431440   | 714412    | Jordon-Hilton Company | 1987           | 425.0                            | --                        | 120.0                            | --              | X              | --  | B/W          |         |
| MCW 64            | 431442   | 714414    | Jordon-Hilton Company | 1987           | 425.0                            | --                        | 115.0                            | --              | X              | --  | B/W          |         |
| MCW 65            | 431718   | 714546    | Hayes                 | 1987           | 430.0                            | --                        | 91.0                             | --              | X              | --  | B/W          |         |
| MCW 66            | 431458   | 714533    | Moran                 | 1987           | 580.0                            | --                        | 29.0                             | --              | X              | --  | B/W          |         |
| MCW 67            | 431715   | 714938    | Hadley & Bennett      | 1987           | 520.0                            | --                        | 19.0                             | --              | X              | --  | B/W          |         |
| MCW 68            | 431548   | 714628    | Fairney               | 1987           | 420.0                            | --                        | 29.0                             | --              | X              | --  | B/W          |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Depth (feet) | Level Date (mm-dd-yy) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity [(gal/min)/ft] | Pumping period (hours) | Remarks |
|-------------------|--------------------|-----------------------|----------------------|-------------------------|------------------|----------------------------------|------------------------|---------|
| MCW 39            | 8.0                | 10-17-84              | H                    | 30.0                    | --               | --                               | 2.0                    |         |
| MCW 40            | --                 | ----                  | --                   | --                      | --               | --                               | --                     |         |
| MCW 41            | --                 | ----                  | H                    | 25.0                    | --               | --                               | --                     |         |
| MCW 42            | --                 | ----                  | H                    | 10.0                    | --               | --                               | .5                     |         |
| MCW 43            | --                 | ----                  | H                    | 2.0                     | --               | --                               | .5                     |         |
| MCW 44            | 50.0               | 06-23-85              | H                    | 6.0                     | --               | --                               | 1.5                    |         |
| MCW 45            | --                 | ----                  | H                    | 15.0                    | --               | --                               | .5                     |         |
| MCW 46            | --                 | ----                  | H                    | 9.0                     | --               | --                               | .5                     |         |
| MCW 47            | 42.0               | 08-31-85              | H                    | 7.0                     | --               | --                               | .5                     |         |
| MCW 48            | --                 | ----                  | H                    | --                      | --               | --                               | --                     |         |
| MCW 49            | 11.0               | 07-18-85              | H                    | 8.0                     | --               | --                               | 1.0                    |         |
| MCW 50            | 15.0               | 10-17-86              | H                    | 20.0                    | --               | --                               | .5                     |         |
| MCW 51            | 25.0               | 11-10-86              | H                    | 12.0                    | --               | --                               | .5                     |         |
| MCW 52            | --                 | ----                  | H                    | 3.5                     | --               | --                               | .5                     |         |
| MCW 53            | 25.0               | 06-24-85              | H                    | 5.0                     | --               | --                               | 2.0                    |         |
| MCW 54            | --                 | ----                  | H                    | 12.0                    | --               | --                               | .5                     |         |
| MCW 55            | --                 | ----                  | H                    | 20.0                    | --               | --                               | .3                     |         |
| MCW 56            | --                 | ----                  | H                    | 5.0                     | --               | --                               | .5                     |         |
| MCW 57            | 25.0               | 07-05-86              | --                   | .5                      | --               | --                               | .5                     |         |
| MCW 58            | --                 | ----                  | H                    | 3.0                     | --               | --                               | .5                     |         |
| MCW 59            | --                 | ----                  | H                    | 25.0                    | --               | --                               | 1.0                    |         |
| MCW 60            | --                 | ----                  | H                    | 5.0                     | --               | --                               | --                     |         |
| MCW 61            | --                 | ----                  | H                    | 2.0                     | --               | --                               | .5                     |         |
| MCW 62            | 40.0               | 11-18-86              | H                    | 4.0                     | --               | --                               | .3                     |         |
| MCW 63            | --                 | ----                  | --                   | 15.0                    | --               | --                               | .5                     |         |
| MCW 64            | 5.0                | 01-17-87              | --                   | 5.0                     | --               | --                               | .5                     |         |
| MCW 65            | --                 | ----                  | H                    | 2.0                     | --               | --                               | .5                     |         |
| MCW 66            | --                 | ----                  | H                    | 15.0                    | --               | --                               | .5                     |         |
| MCW 67            | --                 | ----                  | H                    | 30.0                    | --               | --                               | .8                     |         |
| MCW 68            | 35.0               | 01-16-87              | H                    | 4.0                     | --               | --                               | .8                     |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user        | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|----------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|--------------|
| MCW 69            | 431710   | 715051    | Paddock              | 1987           | 480.0                            | --                        | 29.0                             | --              | X              | --                                     | BrW          |
| MCW 70            | 431536   | 714433    | Logan                | 1987           | 420.0                            | --                        | 46.0                             | --              | X              | --                                     | BrW          |
| MCW 71            | 431625   | 714619    | Jolicoeur            | 1987           | 440.0                            | --                        | 80.0                             | --              | X              | --                                     | BrW          |
| MCW 72            | 431717   | 714939    | Hedley & Bennett     | 1987           | 520.0                            | --                        | 19.0                             | --              | X              | --                                     | BrW          |
| MCW 73            | 431718   | 714943    | Hedley & Bennett     | 1987           | 520.0                            | --                        | 19.0                             | --              | X              | --                                     | BrW          |
| MCW 74            | 431505   | 714653    |                      | --             | 640.0                            | --                        | 32.0                             | --              | X              | --                                     | BrW          |
| MCW 75            | 431724   | 714945    | Hedley & Bennett     | 1987           | 520.0                            | --                        | 39.0                             | --              | X              | --                                     | BrW          |
| MCW 76            | 432030   | 715057    | Young                | 1987           | 980.0                            | --                        | 19.0                             | --              | X              | --                                     | BrW          |
| MCW 77            | 431715   | 714542    | Hayes                | 1987           | 405.0                            | --                        | 70.0                             | --              | X              | --                                     | BrW          |
| MCW 78            | 431714   | 715111    | Anderson             | 1987           | 480.0                            | --                        | 60.0                             | --              | X              | --                                     | BrW          |
| MCW 79            | 431742   | 714932    | Brunham              | 1987           | 620.0                            | --                        | 60.0                             | --              | X              | --                                     | BrW          |
| MCW 80            | 431743   | 714929    | Clawson              | 1987           | 640.0                            | --                        | 50.0                             | --              | X              | --                                     | BrW          |
| MCW 81            | 431726   | 715122    | Sharpe               | 1987           | 510.0                            | --                        | 20.0                             | --              | X              | --                                     | BrW          |
| MCW 82            | 431608   | 714715    | Greenlaw             | 1987           | 440.0                            | --                        | 50.0                             | --              | X              | --                                     | BrW          |
| MCW 83            | 431613   | 714642    | Brake                | 1987           | 450.0                            | --                        | 30.0                             | --              | X              | --                                     | BrW          |
| MCW 84            | 431311   | 715307    | Owens                | 1987           | 840.0                            | --                        | 13.0                             | --              | X              | --                                     | BrW          |
| MCW 85            | 431450   | 714528    | Hertshorn            | 1987           | 500.0                            | --                        | 20.0                             | --              | X              | --                                     | BrW          |
| MCW 86            | 431805   | 714647    | Hill                 | 1987           | 580.0                            | --                        | 102.0                            | --              | X              | --                                     | BrW          |
| MCW 87            | 431616   | 714933    | Marmol               | 1987           | 665.0                            | --                        | 170.0                            | --              | X              | --                                     | BrW          |
| MCW 88            | 431827   | 714959    |                      | --             | 760.0                            | --                        | 30.0                             | --              | X              | --                                     | BrW          |
| MCW 89            | 431745   | 715003    | Valley               | 1987           | 500.0                            | --                        | 40.0                             | --              | X              | --                                     | BrW          |
| MCW 90            | 431749   | 715006    | Kelly                | 1987           | 500.0                            | --                        | 20.0                             | --              | X              | --                                     | BrW          |
| MCW 91            | 431448   | 714510    | White                | 1988           | 420.0                            | --                        | 125.0                            | --              | --             | --                                     | BrW          |
| MCW 92            | 431615   | 714559    | Hayes                | 1988           | 410.0                            | --                        | 28.0                             | --              | X              | --                                     | BrW          |
| MCW 93            | 431708   | 714543    | Hayes                | 1988           | 420.0                            | --                        | 40.0                             | --              | X              | --                                     | BrW          |
| MCW 94            | 431609   | 715352    | Higgins & G. Shaefer | 1988           | 820.0                            | --                        | 20.0                             | --              | X              | --                                     | BrW          |
| MCW 96            | 431659   | 714941    | Flanders             | 1989           | 400.0                            | --                        | 49.0                             | --              | X              | --                                     | BrW          |
| MCW 97            | 431633   | 714840    | Gardner              | 1989           | 420.0                            | --                        | 39.0                             | --              | X              | --                                     | BrW          |
| MCW 98            | 431512   | 714517    | Sullivan             | 1990           | 415.0                            | --                        | 183.0                            | --              | X              | --                                     | BrW          |
| MCW 99            | 431543   | 714624    | Blanchette           | 1988           | 420.0                            | --                        | 35.0                             | --              | X              | --                                     | BrW          |

Merrimack County

Warner--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Max. well yield (gal/min) | Draw-down (feet) | Specific capacity (gal/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|---------------------------|------------------|----------------------------|------------------------|---------|
| MCW 69            | --                       | ----            | H                    | 12.0                      | --               | --                         | 2.0                    |         |
| MCW 70            | 19.0                     | 05-27-87        | H                    | 30.0                      | --               | --                         | 1.0                    |         |
| MCW 71            | --                       | ----            | H                    | 8.0                       | --               | --                         | .8                     |         |
| MCW 72            | 8.0                      | 04-13-87        | H                    | 15.0                      | --               | --                         | .8                     |         |
| MCW 73            | 15.0                     | 09-28-87        | H                    | 7.0                       | --               | --                         | .8                     |         |
| MCW 74            | --                       | ----            | H                    | --                        | --               | --                         | --                     |         |
| MCW 75            | --                       | ----            | H                    | 6.0                       | --               | --                         | .8                     |         |
| MCW 76            | --                       | ----            | H                    | 30.0                      | --               | --                         | .8                     |         |
| MCW 77            | --                       | ----            | H                    | 5.0                       | --               | --                         | .5                     |         |
| MCW 78            | --                       | ----            | H                    | 75.0                      | --               | --                         | .5                     |         |
| MCW 79            | --                       | ----            | H                    | 1.5                       | --               | --                         | .5                     |         |
| MCW 80            | --                       | ----            | H                    | 4.0                       | --               | --                         | .5                     |         |
| MCW 81            | --                       | ----            | H                    | 2.5                       | --               | --                         | .5                     |         |
| MCW 82            | --                       | ----            | H                    | 2.0                       | --               | --                         | .5                     |         |
| MCW 83            | --                       | ----            | H                    | 10.0                      | --               | --                         | .5                     |         |
| MCW 84            | 12.0                     | 12-01-87        | H                    | 15.0                      | --               | --                         | .8                     |         |
| MCW 85            | --                       | ----            | H                    | 3.5                       | --               | --                         | --                     |         |
| MCW 86            | --                       | ----            | H                    | 10.0                      | --               | --                         | --                     |         |
| MCW 87            | --                       | ----            | H                    | 1.0                       | --               | --                         | 1.0                    |         |
| MCW 88            | --                       | ----            | H                    | --                        | --               | --                         | --                     |         |
| MCW 89            | --                       | ----            | H                    | 20.0                      | --               | --                         | .3                     |         |
| MCW 90            | --                       | ----            | H                    | 15.0                      | --               | --                         | .3                     |         |
| MCW 91            | --                       | ----            | H                    | 50.0                      | --               | --                         | 1.5                    |         |
| MCW 92            | 10.0                     | 03-17-88        | H                    | 1.3                       | --               | --                         | .5                     |         |
| MCW 93            | 20.0                     | 03-18-88        | H                    | 10.0                      | --               | --                         | .5                     |         |
| MCW 94            | 10.0                     | 08-03-88        | H                    | 30.0                      | --               | --                         | .5                     |         |
| MCW 96            | --                       | ----            | H                    | 60.0                      | --               | --                         | .3                     |         |
| MCW 97            | --                       | ----            | H                    | 2.0                       | --               | --                         | .3                     |         |
| MCW 98            | --                       | ----            | H                    | 60.0                      | --               | --                         | --                     |         |
| MCW 99            | --                       | ----            | H                    | 2.8                       | --               | --                         | .5                     |         |

Merrimack County

Warner--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well section or (feet) spring |
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|
|-------------------|----------|-----------|---------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|---|

Merrimack County

|        |        |        |                   |      |       |     |       |    |    |      |
|--------|--------|--------|-------------------|------|-------|-----|-------|----|----|------|
| WHB 1  | 431713 | 714239 | MH PUB MRS HMY    | --   | 370.0 | --  | --    | -- | -- | TH   |
| WHB 2  | 431857 | 714322 | --                | --   | 510.0 | --  | --    | -- | -- | TH   |
| WHB 3  | 431852 | 714329 | --                | --   | 580.0 | --  | --    | -- | -- | TH   |
| WHB 4  | 431855 | 714326 | --                | --   | 570.0 | --  | --    | -- | -- | TH   |
| WHB 5  | 431859 | 714320 | --                | --   | 590.0 | --  | --    | -- | -- | TH   |
| WHB 7  | 431612 | 714236 | USGS              | --   | 380.0 | --  | --    | -- | -- | TH   |
| WHW 1  | 432003 | 714459 | Stone, Floyd      | 1960 | 720.0 | --  | 168.0 | -- | -- | BrW  |
| WHW 2  | 431908 | 714303 | Phelps, William   | 1960 | 730.0 | --  | 144.0 | -- | -- | BrW  |
| WHW 3  | 431851 | 714315 | Case, Joseph      | 1960 | 520.0 | --  | 36.0  | -- | -- | BrW  |
| WHW 4  | 431933 | 714317 | Cannon, M.H.      | 1969 | 590.0 | --  | --    | -- | -- | BrW  |
| WHW 5  | 431833 | 714311 | Hore, Kenneth     | 1957 | 520.0 | --  | --    | -- | -- | BrW  |
| WHW 6  | 432021 | 714322 | Maynard, Charles  | 1900 | 610.0 | --  | --    | -- | -- | BrW  |
| WHW 7  | 431956 | 714312 | Fairbanks, Luther | 1963 | 600.0 | --  | --    | -- | -- | BrW  |
| WHW 9  | 432017 | 714222 | --                | 1988 | 540.0 | 2.0 | 23.0  | P  | S  | 25.0 |
| WHW 10 | 432007 | 714532 | Sawyer            | 1984 | 740.0 | --  | 65.0  | -- | X  | BrW  |
| WHW 11 | 431752 | 714147 | Cummings          | 1984 | 440.0 | --  | 66.0  | -- | X  | BrW  |
| WHW 12 | 431805 | 714201 | Cummings          | 1984 | 460.0 | --  | 21.0  | -- | X  | BrW  |
| WHW 13 | 432039 | 714340 | Irman             | 1985 | 630.0 | --  | 40.0  | -- | X  | BrW  |
| WHW 14 | 431716 | 714238 | Wilcox, S.        | 1985 | 420.0 | --  | --    | -- | X  | BrW  |
| WHW 15 | 431628 | 714347 | Gangi             | 1985 | 560.0 | --  | 36.0  | -- | X  | BrW  |
| WHW 16 | 431750 | 714142 | Cashell           | 1985 | 440.0 | --  | 11.0  | -- | -- | Dug  |
| WHW 17 | 431600 | 714023 | Marceau           | 1985 | 400.0 | --  | --    | -- | X  | BrW  |
| WHW 18 | 431956 | 714343 | Golec             | 1985 | 520.0 | --  | 19.0  | -- | X  | BrW  |
| WHW 19 | 432000 | 714311 | Frost             | 1985 | 580.0 | --  | 44.0  | -- | X  | BrW  |
| WHW 20 | 431940 | 714259 | Hurlley           | 1986 | 700.0 | --  | 110.0 | -- | X  | BrW  |
| WHW 21 | 431853 | 714203 | Cate              | 1986 | 600.0 | --  | 170.0 | -- | X  | BrW  |
| WHW 22 | 432025 | 714332 | Drown             | 1985 | 625.0 | --  | 40.0  | -- | X  | BrW  |
| WHW 23 | 431609 | 714031 | Spain             | 1985 | 440.0 | --  | 101.0 | -- | X  | BrW  |
| WHW 24 | 431921 | 714231 | Lake              | 1986 | 720.0 | --  | 23.0  | -- | X  | BrW  |
| WHW 25 | 431911 | 714306 | Brown             | 1986 | 720.0 | --  | 96.0  | -- | X  | BrW  |
| WHW 26 | 431859 | 714314 | Colby             | 1986 | 580.0 | --  | 30.0  | -- | X  | BrW  |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Water Level Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/(ft)) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------------------|----------------------|------------------------------|------------------|------------------------------------|------------------------|---------|
|-------------------|--------------------------|-----------------------------|----------------------|------------------------------|------------------|------------------------------------|------------------------|---------|

Merrimack County

|        |      |           |   |      |    |    |     |                         |
|--------|------|-----------|---|------|----|----|-----|-------------------------|
| WHB 1  | --   | -----     | T | --   | -- | -- | --  | Bridge 124/031 boring 3 |
| WHB 2  | --   | -----     | 0 | --   | -- | -- | --  |                         |
| WHB 3  | --   | -----     | 0 | --   | -- | -- | --  |                         |
| WHB 4  | 10.7 | 06-01-37  | 0 | --   | -- | -- | --  |                         |
| WHB 5  | 7.4  | 06-01-37  | 0 | --   | -- | -- | --  |                         |
| WHB 7  | --   | 11-09-88  | T | --   | -- | -- | --  | USGS:Z                  |
| WHW 1  | --   | -----     | H | 4.0  | -- | -- | --  | Bedrock                 |
| WHW 2  | --   | -----     | H | 2.0  | -- | -- | --  | Bedrock                 |
| WHW 3  | --   | -----     | H | 15.0 | -- | -- | --  | Bedrock                 |
| WHW 4  | 7.0  | 09-----69 | H | 10.0 | -- | -- | --  | Bedrock                 |
| WHW 5  | --   | -----     | H | 15.0 | -- | -- | --  | Bedrock                 |
| WHW 6  | 13.0 | -----00   | H | 6.0  | -- | -- | --  | Bedrock                 |
| WHW 7  | --   | -----     | H | 3.0  | -- | -- | --  | Bedrock                 |
| WHW 9  | 6.1  | 07-10-89  | T | --   | -- | -- | --  | USGS:Z                  |
| WHW 10 | 3.0  | 05-17-84  | H | 6.0  | -- | -- | 0.5 |                         |
| WHW 11 | 8.0  | 09-25-84  | H | 10.0 | -- | -- | .5  |                         |
| WHW 12 | 6.0  | 08-26-84  | H | 6.0  | -- | -- | 1.0 |                         |
| WHW 13 | 12.0 | 04-30-85  | H | 12.0 | -- | -- | 1.0 |                         |
| WHW 14 | 19.0 | 05-29-85  | H | 9.0  | -- | -- | 1.5 |                         |
| WHW 15 | --   | -----     | H | 50.0 | -- | -- | .4  |                         |
| WHW 16 | --   | -----     | H | --   | -- | -- | --  |                         |
| WHW 17 | --   | -----     | H | 6.0  | -- | -- | 1.0 |                         |
| WHW 18 | --   | -----     | H | 60.0 | -- | -- | .3  |                         |
| WHW 19 | 18.0 | 09-10-85  | H | 2.5  | -- | -- | 1.0 |                         |
| WHW 20 | 10.0 | 11-17-86  | H | 2.5  | -- | -- | .5  |                         |
| WHW 21 | 30.0 | 09-22-86  | H | 50.0 | -- | -- | .5  |                         |
| WHW 22 | 15.0 | 10-11-85  | H | 50.0 | -- | -- | 1.0 |                         |
| WHW 23 | --   | -----     | H | .5   | -- | -- | .5  |                         |
| WHW 24 | 9.0  | 07-14-86  | H | 7.0  | -- | -- | .8  |                         |
| WHW 25 | 6.0  | 07-25-86  | H | 30.0 | -- | -- | 1.0 |                         |
| WHW 26 | --   | -----     | H | 35.0 | -- | -- | .5  |                         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user           | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open well or section or spring (feet) |
|-------------------|----------|-----------|-------------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|
| WHW 27            | 431438   | 714314    | White                   | 1986           | 400.0                            | --                        | 90.0                             | --              | X              | BrW  |
| WHW 28            | 431911   | 714320    | Wunderlich              | 1986           | 680.0                            | --                        | 13.0                             | --              | X              | BrW  |
| WHW 29            | 431710   | 714239    | Pelletier               | 1987           | 380.0                            | --                        | 20.0                             | --              | X              | BrW  |
| WHW 30            | 431818   | 714219    | Fredette                | 1987           | 460.0                            | --                        | 16.0                             | --              | X              | BrW  |
| WHW 31            | 431748   | 714131    | Benedict                | 1986           | 440.0                            | --                        | 39.0                             | --              | X              | BrW  |
| WHW 32            | 432005   | 714221    | Clough Sr.              | 1986           | 520.0                            | --                        | 121.0                            | --              | X              | BrW  |
| WHW 33            | 431846   | 714309    | Herrinack Valley School | 1987           | 480.0                            | --                        | 60.0                             | --              | X              | BrW  |
| WHW 34            | 431901   | 714315    | Carter                  | 1987           | 600.0                            | --                        | 20.0                             | --              | X              | BrW  |
| WHW 35            | 431936   | 714302    | Sheldon                 | 1987           | 700.0                            | --                        | 80.0                             | --              | X              | BrW  |
| WHW 36            | 431717   | 714055    | Borek                   | 1987           | 420.0                            | --                        | 22.0                             | --              | X              | BrW  |
| WHW 37            | 431808   | 714201    | Lake                    | 1987           | 460.0                            | --                        | 13.0                             | --              | X              | BrW  |
| WHW 38            | 431849   | 714200    | Burbach                 | 1987           | 600.0                            | --                        | 64.0                             | --              | --             | --   |
| WHW 39            | 431643   | 714433    | Robie                   | 1987           | 760.0                            | --                        | 29.0                             | --              | X              | BrW  |
| WHW 40            | 431512   | 714155    | Hodgdon                 | 1987           | 390.0                            | --                        | 40.0                             | --              | X              | BrW  |
| WHW 41            | 431448   | 714328    | Lambert, T.             | 1987           | 360.0                            | --                        | 85.0                             | --              | X              | BrW  |
| WHW 42            | 431853   | 714438    | Schlagenhaft            | 1987           | 520.0                            | --                        | 39.0                             | --              | X              | BrW  |
| WHW 43            | 431727   | 714101    | Vierra                  | 1987           | 480.0                            | --                        | 40.0                             | --              | X              | BrW  |
| WHW 44            | 431819   | 714230    | McComiskey              | 1987           | 480.0                            | --                        | 34.0                             | --              | X              | BrW  |
| WHW 45            | 431652   | 714058    | LaLumiere               | 1988           | 440.0                            | --                        | 19.0                             | --              | X              | BrW  |
| WHW 46            | 431744   | 714123    | Bowman                  | 1988           | 480.0                            | --                        | 19.0                             | --              | X              | BrW  |
| WHW 47            | 431758   | 714256    | Rowe                    | 1988           | 520.0                            | --                        | 39.0                             | --              | X              | BrW  |
| WHW 49            | 431556   | 713950    | --                      | 1989           | 390.0                            | 2                         | 37.0                             | P               | S              | TH   |
| WHW 50            | 431522   | 714159    | Kelasa                  | 1984           | 380.0                            | --                        | 164.0                            | --              | X              | BrW  |
| WHW 51            | 431644   | 714254    | Fletcher                | 1989           | 370.0                            | --                        | 131.0                            | --              | X              | BrW  |
| WHW 52            | 432006   | 714215    | Van DeParre             | 1989           | 510.0                            | --                        | 61.0                             | --              | X              | BrW  |
| WHW 53            | 432003   | 714304    | Stebbins                | 1989           | 600.0                            | --                        | 47.0                             | --              | X              | BrW  |

Merrimack County

Webster--Continued

|        |      |          |   |      |      |     |      |
|--------|------|----------|---|------|------|-----|------|
| WHW 27 | 30.0 | 04-02-86 | H | 60.0 | --   | --  | 0.5  |
| WHW 28 | 6.0  | 12-20-86 | H | 7.0  | --   | --  | .5   |
| WHW 29 | 11.0 | 01-02-87 | H | 7.5  | --   | --  | 1.0  |
| WHW 30 | 6.0  | 01-22-87 | H | 15.0 | --   | --  | 1.0  |
| WHW 31 | --   | -----    | H | 6.0  | --   | --  | .8   |
| WHW 32 | --   | -----    | H | 6.0  | --   | --  | .3   |
| WHW 33 | 6.5  | 04-07-87 | T | 33.0 | --   | --  | 48.0 |
| WHW 34 | --   | -----    | H | 1.5  | --   | --  | .5   |
| WHW 35 | --   | -----    | H | 10.0 | --   | --  | .5   |
| WHW 36 | --   | -----    | H | 10.0 | --   | --  | .3   |
| WHW 37 | 12.0 | 06-13-87 | H | 5.0  | --   | --  | 1.0  |
| WHW 38 | --   | -----    | H | 15.0 | --   | --  | 2.0  |
| WHW 39 | --   | -----    | H | 5.0  | --   | --  | 1.0  |
| WHW 40 | 20.0 | 12-11-87 | H | 3.0  | --   | --  | --   |
| WHW 41 | --   | -----    | H | 20.0 | --   | --  | --   |
| WHW 42 | --   | -----    | H | .8   | --   | --  | .5   |
| WHW 43 | --   | -----    | H | 2.0  | --   | --  | --   |
| WHW 44 | --   | -----    | H | 1.5  | --   | --  | .5   |
| WHW 45 | 15.0 | 02-29-88 | H | 1.8  | --   | --  | .8   |
| WHW 46 | --   | -----    | H | 10.0 | --   | --  | .8   |
| WHW 47 | --   | -----    | H | 15.0 | --   | --  | 1.0  |
| WHW 49 | 5.2  | 06-26-89 | T | 3.3  | 13.5 | 0.3 | .18  |
| WHW 50 | 25.0 | 08-07-84 | H | 3.5  | --   | --  | .5   |
| WHW 51 | --   | -----    | H | 6.0  | --   | --  | .3   |
| WHW 52 | --   | -----    | H | 50.0 | --   | --  | 1.0  |
| WHW 53 | 9.0  | 09-15-89 | H | 7.0  | --   | --  | 1.0  |

Merrimack County

Webster--Continued

|        |      |          |   |      |      |     |      |
|--------|------|----------|---|------|------|-----|------|
| WHW 27 | 30.0 | 04-02-86 | H | 60.0 | --   | --  | 0.5  |
| WHW 28 | 6.0  | 12-20-86 | H | 7.0  | --   | --  | .5   |
| WHW 29 | 11.0 | 01-02-87 | H | 7.5  | --   | --  | 1.0  |
| WHW 30 | 6.0  | 01-22-87 | H | 15.0 | --   | --  | 1.0  |
| WHW 31 | --   | -----    | H | 6.0  | --   | --  | .8   |
| WHW 32 | --   | -----    | H | 6.0  | --   | --  | .3   |
| WHW 33 | 6.5  | 04-07-87 | T | 33.0 | --   | --  | 48.0 |
| WHW 34 | --   | -----    | H | 1.5  | --   | --  | .5   |
| WHW 35 | --   | -----    | H | 10.0 | --   | --  | .5   |
| WHW 36 | --   | -----    | H | 10.0 | --   | --  | .3   |
| WHW 37 | 12.0 | 06-13-87 | H | 5.0  | --   | --  | 1.0  |
| WHW 38 | --   | -----    | H | 15.0 | --   | --  | 2.0  |
| WHW 39 | --   | -----    | H | 5.0  | --   | --  | 1.0  |
| WHW 40 | 20.0 | 12-11-87 | H | 3.0  | --   | --  | --   |
| WHW 41 | --   | -----    | H | 20.0 | --   | --  | --   |
| WHW 42 | --   | -----    | H | .8   | --   | --  | .5   |
| WHW 43 | --   | -----    | H | 2.0  | --   | --  | --   |
| WHW 44 | --   | -----    | H | 1.5  | --   | --  | .5   |
| WHW 45 | 15.0 | 02-29-88 | H | 1.8  | --   | --  | .8   |
| WHW 46 | --   | -----    | H | 10.0 | --   | --  | .8   |
| WHW 47 | --   | -----    | H | 15.0 | --   | --  | 1.0  |
| WHW 49 | 5.2  | 06-26-89 | T | 3.3  | 13.5 | 0.3 | .18  |
| WHW 50 | 25.0 | 08-07-84 | H | 3.5  | --   | --  | .5   |
| WHW 51 | --   | -----    | H | 6.0  | --   | --  | .3   |
| WHW 52 | --   | -----    | H | 50.0 | --   | --  | 1.0  |
| WHW 53 | 9.0  | 09-15-89 | H | 7.0  | --   | --  | 1.0  |

Wilnot

Bridge 201/115 boring 2



Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user    | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Material of casing | Type of finish section | Depth to bottom of open well section or (feet) spring | Type of well |
|-------------------|----------|-----------|------------------|----------------|----------------------------------|---------------------------|----------------------------------|--------------------|------------------------|---|--------------|
| WH 2              | 432542   | 715344    | Aylund           | 1962           | 890.0                            | --                        | 98.0                             | --                 | --                     | --  | BNW          |
| WH 3              | 432504   | 715350    | Bacon, Achilles  | 1960           | 670.0                            | --                        | 31.0                             | --                 | --                     | --  | BNW          |
| WH 4              | 432504   | 715350    | Bacon, Richard   | 1956           | 670.0                            | --                        | 21.0                             | --                 | --                     | --  | BNW          |
| WH 5              | 432642   | 715342    | Frederick        | 1960           | 700.0                            | --                        | --                               | --                 | --                     | --  | BNW          |
| WH 6              | 432503   | 715340    | Loomer, Lewis    | 1960           | 690.0                            | --                        | 52.0                             | --                 | --                     | --  | BNW          |
| WH 7              | 432502   | 715348    | Rayno, John      | 1959           | 680.0                            | --                        | --                               | --                 | --                     | --  | BNW          |
| WH 8              | 432536   | 715335    | Webb, Almer      | 1956           | 680.0                            | --                        | 29.0                             | --                 | --                     | --  | BNW          |
| WH 9              | 432765   | 715258    | Fudge, Arthur S. | 1959           | 680.0                            | --                        | 42.0                             | --                 | --                     | --  | BNW          |
| WH 10             | 432632   | 715551    | Bock             | 1984           | 1200.0                           | --                        | 19.0                             | --                 | X                      | --  | BNW          |
| WH 11             | 432517   | 715429    | Jewell           | 1985           | 740.0                            | --                        | 19.0                             | --                 | X                      | --  | BNW          |
| WH 12             | 432355   | 715322    | Glass            | 1985           | 1060.0                           | --                        | 159.0                            | --                 | X                      | --  | BNW          |
| WH 13             | 432639   | 715642    | Brunner Jr.      | 1985           | 1480.0                           | --                        | 19.0                             | --                 | X                      | --  | BNW          |
| WH 14             | 432656   | 715625    | Brunner Sr.      | 1985           | 1480.0                           | --                        | 23.0                             | --                 | X                      | --  | BNW          |
| WH 15             | 432662   | 715638    | Brunner Jr.      | 1985           | 1480.0                           | --                        | 37.0                             | --                 | X                      | --  | BNW          |
| WH 16             | 432655   | 715409    | Wesson           | 1985           | 680.0                            | --                        | 64.0                             | --                 | X                      | --  | BNW          |
| WH 17             | 432510   | 715429    | Jameson          | 1985           | 720.0                            | --                        | 19.0                             | --                 | X                      | --  | BNW          |
| WH 18             | 432513   | 715427    | D & J Powers     | 1985           | 720.0                            | --                        | 15.0                             | --                 | X                      | --  | BNW          |
| WH 19             | 432625   | 715352    | Demaris          | 1986           | 900.0                            | --                        | 14.3                             | --                 | X                      | --  | BNW          |
| WH 20             | 432613   | 715333    | Gould            | 1986           | 740.0                            | --                        | 87.6                             | --                 | --                     | --  | BNW          |
| WH 21             | 432342   | 715354    | Madden           | 1984           | 840.0                            | --                        | 120.0                            | --                 | X                      | --  | BNW          |
| WH 22             | 432758   | 715307    | Merzi            | 1985           | 690.0                            | --                        | 69.0                             | --                 | X                      | --  | BNW          |
| WH 23             | 432355   | 715405    | Bacon            | 1986           | 820.0                            | --                        | 104.0                            | --                 | X                      | --  | BNW          |
| WH 24             | 432639   | 715437    | Voss             | 1986           | 710.0                            | --                        | 32.0                             | --                 | X                      | --  | BNW          |
| WH 25             | 432536   | 715400    | Richards         | 1985           | 680.0                            | --                        | 80.0                             | --                 | X                      | --  | BNW          |
| WH 26             | 432340   | 715324    | Magnarelli       | 1985           | 1020.0                           | --                        | 160.0                            | --                 | X                      | --  | BNW          |
| WH 27             | 432645   | 715441    | Taylor           | 1984           | 980.0                            | --                        | 154.0                            | --                 | X                      | --  | BNW          |
| WH 28             | 432658   | 715405    | Taylor           | 1986           | 680.0                            | --                        | 19.0                             | --                 | X                      | --  | BNW          |
| WH 29             | 432516   | 715415    | Kilcourse        | 1986           | 690.0                            | --                        | 19.0                             | --                 | X                      | --  | BNW          |
| WH 30             | 432657   | 715341    | Canuto           | 1986           | 700.0                            | --                        | 26.0                             | --                 | X                      | --  | BNW          |
| WH 31             | 432658   | 715407    | Rayno            | 1986           | 680.0                            | --                        | 27.0                             | --                 | X                      | --  | BNW          |

Merrimack County

Wilmington--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|----------------------|------------------------------|-----------------|----------------------------------|------------------------|---------|
| WH 2              | --                       | ----            | H                    | 10.0                         | --              | --                               | --                     | Bedrock |
| WH 3              | 15.0                     | 02-03-60        | H                    | 2.0                          | --              | --                               | --                     | Bedrock |
| WH 4              | --                       | ----            | H                    | --                           | --              | --                               | --                     | Bedrock |
| WH 5              | --                       | ----            | H                    | 8.0                          | --              | --                               | --                     | Bedrock |
| WH 6              | 26.0                     | 02-03-60        | H                    | 5.0                          | --              | --                               | --                     | Bedrock |
| WH 7              | --                       | ----            | H                    | --                           | --              | --                               | --                     | Bedrock |
| WH 8              | 15.0                     | 10-13-56        | H                    | 2.0                          | --              | --                               | --                     | Bedrock |
| WH 9              | 28.0                     | ----59          | H                    | .8                           | --              | --                               | --                     | Bedrock |
| WH 10             | 8.0                      | 08-14-84        | H                    | 5.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 11             | 19.0                     | 10-18-85        | H                    | 6.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 12             | 47.0                     | 01-20-85        | H                    | 4.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 13             | 16.0                     | 07-24-85        | H                    | 4.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 14             | 55.0                     | 09-03-85        | H                    | 6.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 15             | 20.0                     | 08-15-85        | H                    | 20.0                         | --              | --                               | 1.5                    | Bedrock |
| WH 16             | 30.0                     | 09-13-85        | H                    | 30.0                         | --              | --                               | .8                     | Bedrock |
| WH 17             | 18.5                     | 10-17-85        | H                    | 28.0                         | --              | --                               | 1.0                    | Bedrock |
| WH 18             | 30.5                     | 07-12-85        | H                    | 8.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 19             | 70.0                     | 08-09-86        | H                    | 8.0                          | --              | --                               | 2.0                    | Bedrock |
| WH 20             | 25.0                     | 08-14-86        | H                    | 20.0                         | --              | --                               | 1.0                    | Bedrock |
| WH 21             | --                       | ----            | H                    | 3.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 22             | 25.0                     | 11-01-85        | H                    | 20.0                         | --              | --                               | .8                     | Bedrock |
| WH 23             | 18.0                     | 06-19-86        | H                    | 1.0                          | --              | --                               | .8                     | Bedrock |
| WH 24             | 40.0                     | 03-04-86        | H                    | 15.0                         | --              | --                               | .8                     | Bedrock |
| WH 25             | --                       | ----            | H                    | 7.5                          | --              | --                               | 1.0                    | Bedrock |
| WH 26             | --                       | ----            | H                    | 7.5                          | --              | --                               | 1.0                    | Bedrock |
| WH 27             | --                       | ----            | H                    | 8.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 28             | --                       | ----            | H                    | 10.0                         | --              | --                               | 1.0                    | Bedrock |
| WH 29             | 20.0                     | 11-19-86        | H                    | 3.0                          | --              | --                               | 1.0                    | Bedrock |
| WH 30             | 8.0                      | 03-02-86        | C                    | 8.0                          | --              | --                               | 2.0                    | Bedrock |
| WH 31             | 10.0                     | 12-22-86        | H                    | 3.0                          | --              | --                               | .8                     | Bedrock |

Merrimack County

Wilmington--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user      | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Depth to bottom of material of finish section (feet) | Type of well | Depth to bottom of open section (feet) | Type of well |
|-------------------|----------|-----------|--------------------|----------------|----------------------------------|---------------------------|----------------------------------|--|--------------|--|--------------|
| WMW 32            | 432752   | 715729    | Matthews           | 1986           | 1220.0                           | --                        | 39.0                             | --   | X            | --                                     | BrW          |
| WMW 33            | 432453   | 715443    | Newcomb            | 1986           | 700.0                            | --                        | 90.0                             | --   | X            | --                                     | BrW          |
| WMW 34            | 432802   | 715453    | Goldsworthy        | 1987           | 920.0                            | --                        | 14.0                             | --   | X            | --                                     | BrW          |
| WMW 35            | 432529   | 715420    | Howe               | 1987           | 680.0                            | --                        | 39.0                             | --   | X            | --                                     | BrW          |
| WMW 36            | 432337   | 715322    | Giles              | 1987           | 1040.0                           | --                        | 229.0                            | --   | X            | --                                     | BrW          |
| WMW 37            | 432530   | 715418    | Franklin           | 1987           | 680.0                            | --                        | 39.0                             | --   | X            | --                                     | BrW          |
| WMW 38            | 432357   | 715256    | Rayno              | 1987           | 1300.0                           | --                        | 203.0                            | --   | X            | --                                     | BrW          |
| WMW 39            | 432454   | 715406    | Town of Wilmet     | 1987           | 680.0                            | --                        | 34.0                             | --   | X            | --                                     | BrW          |
| WMW 41            | 432555   | 715322    | Shafer             | 1987           | 680.0                            | --                        | 39.6                             | --   | X            | --                                     | BrW          |
| WMW 42            | 432502   | 715502    | Cole               | 1987           | 710.0                            | --                        | 35.0                             | --   | X            | --                                     | BrW          |
| WMW 43            | 432521   | 715429    | Lytle              | 1987           | 740.0                            | --                        | 25.0                             | --   | X            | --                                     | BrW          |
| WMW 44            | 432343   | 715334    | Ness               | 1987           | 960.0                            | --                        | 100.0                            | --   | X            | --                                     | BrW          |
| WMW 45            | 432743   | 715256    | Martin             | 1987           | 700.0                            | --                        | 19.0                             | --   | X            | --                                     | BrW          |
| WMW 46            | 432456   | 715557    | Tedeschi           | 1987           | 840.0                            | --                        | 89.0                             | --   | X            | --                                     | BrW          |
| WMW 47            | 432723   | 715545    | J & M Williams     | 1988           | 980.0                            | --                        | 19.0                             | --   | X            | --                                     | BrW          |
| WMW 48            | 432934   | 715529    | Clorite            | 1987           | 1220.0                           | --                        | 19.0                             | --   | X            | --                                     | BrW          |
| WMW 49            | 432838   | 715627    | Lockwood           | 1987           | 1380.0                           | --                        | 29.0                             | --   | X            | --                                     | BrW          |
| WMW 50            | 432340   | 715404    | O'Connor           | 1989           | 820.0                            | --                        | 92.0                             | --   | X            | --                                     | BrW          |
| WMW 51            | 432453   | 715518    | Henneberry         | 1990           | 720.0                            | --                        | 39.0                             | --   | X            | --                                     | BrW          |
| WMW 52            | 432325   | 715206    | WineLow State Park | 1951           | 1810.0                           | --                        | 28.0                             | --   | --           | 403.0                                  | --           |

Merrimack County

Wilmet--Continued

Sullivan County

Washington

|        |        |        |                  |      |        |    |      |    |    |    |     |
|--------|--------|--------|------------------|------|--------|----|------|----|----|----|-----|
| WEW 5  | 431046 | 720417 | Center, Charles  | 1960 | 1430.0 | -- | 22.0 | -- | -- | -- | BrW |
| WEW 7  | 431124 | 720106 | Gage, Charles    | 1952 | 940.0  | -- | 23.0 | -- | -- | -- | BrW |
| WEW 8  | 431033 | 720243 | Klauder, Rudolph | 1958 | 1150.0 | -- | --   | -- | -- | -- | BrW |
| WEW 9  | 431046 | 720620 | Otterson, Bertha | 1960 | 1600.0 | -- | 72.0 | -- | -- | -- | BrW |
| WEW 10 | 431032 | 720550 | Radden, Adam     | 1962 | 1480.0 | -- | 80.0 | -- | -- | -- | BrW |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Depth (feet) | Date (mm-dd-yy) | Use of site | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity ((gal/min)/ft) | Pumping period (hours) | Remarks |
|-------------------|--------------------------|-----------------|-------------|-------------------------|------------------|----------------------------------|------------------------|---------|
| WMW 32            | --                       | ----            | H           | 20.0                    | --               | --                               | 0.8                    |         |
| WMW 33            | 20.0                     | 12-29-86        | H           | 50.0                    | --               | --                               | .5                     |         |
| WMW 34            | --                       | ----            | H           | 1.5                     | --               | --                               | .5                     |         |
| WMW 35            | 18.0                     | 03-18-87        | H           | 6.0                     | --               | --                               | .8                     |         |
| WMW 36            | --                       | ----            | H           | 6.0                     | --               | --                               | 2.0                    |         |
| WMW 37            | 18.0                     | 03-17-87        | H           | 15.0                    | --               | --                               | .8                     |         |
| WMW 38            | --                       | ----            | H           | 2.0                     | --               | --                               | .8                     |         |
| WMW 39            | --                       | ----            | H           | 8.5                     | --               | --                               | .8                     |         |
| WMW 41            | --                       | ----            | H           | 4.0                     | --               | --                               | .5                     |         |
| WMW 42            | --                       | ----            | H           | 3.0                     | --               | --                               | .5                     |         |
| WMW 43            | 12.0                     | 10-27-87        | H           | 2.0                     | --               | --                               | 1.0                    |         |
| WMW 44            | --                       | ----            | H           | 1.5                     | --               | --                               | 2.0                    |         |
| WMW 45            | 30.0                     | 09-09-87        | H           | 4.0                     | --               | --                               | --                     |         |
| WMW 46            | --                       | ----            | H           | 5.0                     | --               | --                               | 1.0                    |         |
| WMW 47            | --                       | ----            | H           | 5.0                     | --               | --                               | .8                     |         |
| WMW 48            | --                       | ----            | H           | 7.0                     | --               | --                               | .8                     |         |
| WMW 49            | --                       | ----            | H           | 3.0                     | --               | --                               | .8                     |         |
| WMW 50            | --                       | ----            | H           | 2.0                     | --               | --                               | 1.0                    |         |
| WMW 51            | 10.0                     | 01-16-90        | H           | 25.0                    | --               | --                               | .5                     |         |
| WMW 52            | 65.0                     | 03-15-51        | H           | 0.8                     | --               | --                               | --                     | Bedrock |

Merrimack County

Wilmet--Continued

Sullivan County

Washington

|        |      |          |   |      |    |    |    |         |
|--------|------|----------|---|------|----|----|----|---------|
| WEW 5  | --   | ----     | H | 30.0 | -- | -- | -- | Bedrock |
| WEW 7  | --   | ----     | H | 6.5  | -- | -- | -- | Bedrock |
| WEW 8  | 20.0 | ----58   | H | 20.0 | -- | -- | -- | Bedrock |
| WEW 9  | --   | ----     | H | 3.0  | -- | -- | -- | Bedrock |
| WEW 10 | 20.0 | 12-30-62 | H | 4.0  | -- | -- | -- | Bedrock |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user    | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish section or (feet) spring | Depth to bottom of open well section or (feet) spring | Type of well |
|-------------------|----------|-----------|------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|---|---|--------------|
|                   |          |           |                  |                |                                  |                           |                                  |                 |   |   |              |
| WEW 11            | 431056   | 720617    | Tweedy, John     | --             | 1590.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 12            | 431037   | 720600    | Kinch, R.        | 1964           | 1520.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 13            | 431032   | 720555    | Barker, Abner H. | 1961           | 1460.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 16            | 431031   | 720556    | Macy, Virginia   | --             | 1480.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 18            | 431025   | 720508    | Williams, Hubert | 1965           | 1410.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 19            | 431128   | 720103    | Combs, Floyd     | 1964           | 970.0                            | --                        | 55.0                             | --              | --                                      | --  | BrW          |
| WEW 20            | 431032   | 720559    | Cornell, Clinton | 1965           | 1480.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 21            | 431039   | 720555    | Gilley, E.       | --             | 1530.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 22            | 431034   | 720603    | Ashley           | 1984           | 1480.0                           | --                        | 19.0                             | --              | X                                       | --  | BrW          |
| WEW 24            | 430909   | 720145    | Salafia          | 1984           | 1100.0                           | --                        | 8.0                              | --              | X                                       | --  | BrW          |
| WEW 25            | 430910   | 720211    | Rheume           | 1984           | 1120.0                           | --                        | 105.0                            | --              | X                                       | --  | BrW          |
| WEW 26            | 430905   | 720604    | Castrios         | 1984           | 1560.0                           | --                        | 10.0                             | --              | X                                       | --  | BrW          |
| WEW 27            | 431005   | 720546    | Gasper           | 1984           | 1440.0                           | --                        | 39.0                             | --              | X                                       | --  | BrW          |
| WEW 30            | 430919   | 720547    | Hollenbeck       | 1984           | 1480.0                           | --                        | 16.0                             | --              | X                                       | --  | BrW          |
| WEW 32            | 430900   | 720405    | Crane Farm       | 1985           | 1240.0                           | --                        | 12.0                             | --              | X                                       | --  | BrW          |
| WEW 38            | 431143   | 720113    | Marcaurette      | 1985           | 950.0                            | --                        | 48.0                             | --              | X                                       | --  | BrW          |
| WEW 39            | 431122   | 720113    | Johnson          | 1985           | 960.0                            | --                        | 37.0                             | --              | X                                       | --  | BrW          |
| WEW 40            | 430910   | 720143    | Stopa            | 1985           | 1100.0                           | --                        | 15.0                             | --              | X                                       | --  | BrW          |
| WEW 41            | 431137   | 720115    | Fallon           | 1986           | 950.0                            | --                        | 19.0                             | --              | X                                       | --  | BrW          |
| WEW 42            | 431121   | 720448    | Houghton         | 1986           | 1540.0                           | --                        | 13.0                             | --              | X                                       | --  | BrW          |
| WEW 42            | 431121   | 720448    |                  | --             | 1540.0                           | --                        | --                               | --              | --                                      | --  | BrW          |
| WEW 45            | 430908   | 720149    | Klein            | 1985           | 1100.0                           | --                        | 7.0                              | --              | X                                       | --  | BrW          |
| WEW 47            | 431023   | 720533    | Fournier         | 1985           | 1360.0                           | --                        | 39.0                             | --              | X                                       | --  | BrW          |
| WEW 48            | 430838   | 720419    | Reynhout         | 1985           | 1230.0                           | --                        | 32.0                             | --              | X                                       | --  | BrW          |
| WEW 49            | 431231   | 720413    | Blanchette       | 1985           | 1890.0                           | --                        | 32.0                             | --              | X                                       | --  | BrW          |
| WEW 57            | 430817   | 720515    | Chicoine         | 1986           | 1320.0                           | --                        | 16.3                             | --              | X                                       | --  | BrW          |
| WEW 58            | 430758   | 720519    | Daley            | 1987           | 1300.0                           | --                        | 19.0                             | --              | X                                       | --  | BrW          |
| WEW 59            | 431147   | 720152    | Wood             | 1987           | 1060.0                           | --                        | 61.0                             | --              | X                                       | --  | BrW          |
| WEW 60            | 431047   | 720604    | US Post Office   | 1987           | 1560.0                           | --                        | 19.0                             | --              | X                                       | --  | BrW          |
| WEW 62            | 430847   | 720533    | Carlson          | 1987           | 1310.0                           | --                        | 39.0                             | --              | X                                       | --  | BrW          |

Appendix A.--Description of wells and borings--Continued

| Local site number | Water Level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum well yield (gal/min) | Drawdown (feet) | Specific capacity (gal/min) / (ft) | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|--------------|----------------------|------------------------------|-----------------|------------------------------------|------------------------|---------|
|                   |                             |              |                      |                              |                 |                                    |                        |         |
| WEW 11            | --                          | --           | H                    | 4.0                          | --              | --                                 | --                     | Bedrock |
| WEW 12            | ----                        | ----         | H                    | 3.0                          | --              | --                                 | --                     | Bedrock |
| WEW 13            | ----                        | ----         | H                    | 10.0                         | --              | --                                 | --                     | Bedrock |
| WEW 16            | ----                        | ----         | H                    | 5.0                          | --              | --                                 | --                     | Bedrock |
| WEW 18            | 16.0                        | 10-----65    | H                    | 8.0                          | --              | --                                 | --                     | Bedrock |
| WEW 19            | 20.0                        | -----64      | H                    | 4.0                          | --              | --                                 | --                     | Bedrock |
| WEW 20            | 15.5                        | 07-13-65     | H                    | --                           | --              | --                                 | --                     | Bedrock |
| WEW 21            | --                          | ----         | H                    | 6.0                          | --              | --                                 | --                     |         |
| WEW 22            | --                          | ----         | H                    | 4.0                          | --              | --                                 | 0.5                    |         |
| WEW 24            | 21.0                        | 07-28-84     | H                    | 5.5                          | --              | --                                 | 1.0                    |         |
| WEW 25            | 20.0                        | 07-31-84     | H                    | 4.0                          | --              | --                                 | .5                     |         |
| WEW 26            | 20.0                        | 08-26-84     | H                    | 30.0                         | --              | --                                 | .5                     |         |
| WEW 27            | 15.0                        | 09-24-84     | H                    | 3.0                          | --              | --                                 | 6.0                    |         |
| WEW 30            | --                          | ----         | H                    | 4.0                          | --              | --                                 | .5                     |         |
| WEW 32            | 17.0                        | 04-05-85     | H                    | 8.0                          | --              | --                                 | 24.0                   |         |
| WEW 38            | --                          | ----         | H                    | 3.0                          | --              | --                                 | .5                     |         |
| WEW 39            | 12.0                        | 02-15-85     | H                    | 6.0                          | --              | --                                 | .5                     |         |
| WEW 40            | --                          | ----         | H                    | 5.0                          | --              | --                                 | .5                     |         |
| WEW 41            | 2.0                         | 03-24-86     | H                    | 7.5                          | --              | --                                 | 1.0                    |         |
| WEW 42            | 12.0                        | 06-20-86     | H                    | 4.5                          | --              | --                                 | .5                     |         |
| WEW 42            | 12.0                        | 06-20-86     | H                    | 4.5                          | --              | --                                 | .5                     |         |
| WEW 45            | 12.0                        | 09-09-85     | H                    | 6.0                          | --              | --                                 | .5                     |         |
| WEW 47            | --                          | ----         | H                    | 100.0                        | --              | --                                 | .3                     |         |
| WEW 48            | 10.0                        | 11-21-85     | H                    | 10.0                         | --              | --                                 | .5                     |         |
| WEW 49            | 25.0                        | 11-12-85     | H                    | 6.0                          | --              | --                                 | .5                     |         |
| WEW 57            | 8.0                         | 12-30-86     | H                    | 5.0                          | --              | --                                 | 1.0                    |         |
| WEW 58            | 20.0                        | 03-12-87     | H                    | 20.0                         | --              | --                                 | 1.0                    |         |
| WEW 59            | 42.0                        | 03-17-87     | H                    | 50.0                         | --              | --                                 | .1                     |         |
| WEW 60            | 12.0                        | 03-18-87     | H                    | 4.0                          | --              | --                                 | .3                     |         |
| WEW 62            | 20.0                        | 06-04-87     | H                    | 10.0                         | --              | --                                 | 1.0                    |         |

Appendix A.--Description of wells and borings--Continued

| Local site number | Latitude | Longitude | Owner or user    | Year completed | Elevation above sea level (feet) | Diameter of well (inches) | Depth to bottom of casing (feet) | Casing material | Type of finish | Depth to bottom of open section or (feet) spring |
|-------------------|----------|-----------|------------------|----------------|----------------------------------|---------------------------|----------------------------------|-----------------|----------------|--|
| NEW 64            | 430846   | 720535    | Lamy             | 1986           | 1310.0                           | --                        | 21.5                             | --              | X              | --   |
| NEW 65            | 430833   | 720532    | Chapman          | 1986           | 1320.0                           | --                        | 23.0                             | --              | X              | BrW  |
| NEW 66            | 430749   | 720503    | Prentiss         | 1986           | 1300.0                           | --                        | 14.0                             | --              | X              | BrW  |
| NEW 67            | 431143   | 720109    | Crane            | 1986           | 960.0                            | --                        | 41.0                             | --              | X              | BrW  |
| NEW 68            | 430904   | 720214    | Tenny            | 1986           | 1060.0                           | --                        | 47.5                             | --              | X              | BrW  |
| NEW 69            | 430853   | 720405    | Crane Company    | 1986           | 1240.0                           | --                        | 29.0                             | --              | X              | BrW  |
| NEW 70            | 431029   | 720342    | Carpenter        | 1986           | 1420.0                           | --                        | 9.0                              | --              | X              | BrW  |
| NEW 71            | 430853   | 720520    | Gaskells         | 1986           | 1320.0                           | --                        | 20.0                             | --              | X              | BrW  |
| NEW 72            | 430907   | 720417    | Daton            | 1986           | 1350.0                           | --                        | 25.0                             | --              | X              | BrW  |
| NEW 73            | 431025   | 720336    | Thomas & Roberts | 1986           | 1440.0                           | --                        | 11.0                             | --              | X              | BrW  |
| NEW 74            | 430852   | 720604    | Richards         | 1986           | 1510.0                           | --                        | 89.0                             | --              | X              | BrW  |
| NEW 75            | 430854   | 720523    | Kelly            | 1987           | 1300.0                           | --                        | 50.0                             | --              | X              | BrW  |
| NEW 76            | 430843   | 720532    | Vencent          | 1987           | 1300.0                           | --                        | --                               | --              | --             | Dug  |
| NEW 77            | 430843   | 720551    | Burges           | 1987           | 1370.0                           | --                        | --                               | --              | --             | Dug  |
| NEW 78            | 430824   | 720515    | Defosse          | 1987           | 1300.0                           | --                        | --                               | --              | --             | Dug  |
| NEW 79            | 430841   | 720526    | Brochu           | 1987           | 1300.0                           | --                        | 20.0                             | --              | X              | BrW  |
| NEW 87            | 431036   | 720336    | Max              | 1987           | 1430.0                           | --                        | 19.0                             | --              | X              | BrW  |
| NEW 89            | 430914   | 720206    | Wyrenbeck        | 1988           | 1130.0                           | --                        | 109.0                            | --              | X              | BrW  |

Sullivan County

Washington--Continued

Appendix A.--Description of wells and borings--Continued

| Local site number | Water level Date (mm-dd-yy) | Depth (feet) | Use of site or water | Maximum yield (gal/min) | Draw-down (feet) | Specific capacity (gal/min)/ft | Pumping period (hours) | Remarks |
|-------------------|-----------------------------|--------------|----------------------|-------------------------|------------------|--------------------------------|------------------------|---------|
| NEW 64            | 06-17-86                    | 10.0         | H                    | 2.1                     | --               | --                             | 0.3                    |         |
| NEW 65            | ----                        | --           | H                    | .8                      | --               | --                             | .3                     |         |
| NEW 66            | 05-23-86                    | 4.0          | H                    | .5                      | --               | --                             | .3                     |         |
| NEW 67            | 05-17-86                    | 30.0         | H                    | 3.0                     | --               | --                             | .5                     |         |
| NEW 68            | 04-26-86                    | 40.0         | H                    | 2.5                     | --               | --                             | .3                     |         |
| NEW 69            | 04-16-86                    | 30.0         | H                    | 6.0                     | --               | --                             | .5                     |         |
| NEW 70            | 02-11-86                    | 20.0         | H                    | 15.0                    | --               | --                             | .3                     |         |
| NEW 71            | 06-12-86                    | 5.0          | H                    | .8                      | --               | --                             | .3                     |         |
| NEW 72            | 07-12-86                    | 25.0         | H                    | 12.0                    | --               | --                             | .3                     |         |
| NEW 73            | 10-22-86                    | 15.0         | H                    | 50.0                    | --               | --                             | .1                     |         |
| NEW 74            | 10-18-86                    | 15.0         | H                    | 3.0                     | --               | --                             | .3                     |         |
| NEW 75            | ----                        | --           | H                    | 8.0                     | --               | --                             | 1.0                    |         |
| NEW 76            | 08-12-87                    | 8.0          | H                    | 7.0                     | --               | --                             | --                     |         |
| NEW 77            | 08-20-87                    | 3.0          | H                    | 8.0                     | --               | --                             | --                     |         |
| NEW 78            | 09-20-87                    | 9.0          | H                    | 5.0                     | --               | --                             | --                     |         |
| NEW 79            | 08-19-87                    | 5.0          | H                    | 30.0                    | --               | --                             | 1.0                    |         |
| NEW 87            | 05-15-87                    | 20.0         | H                    | 1.5                     | --               | --                             | .3                     |         |
| NEW 89            | 05-10-88                    | 15.0         | H                    | 20.0                    | --               | --                             | .3                     |         |

Sullivan County

Washington--Continued

## **Appendix B**

Stratigraphic logs of selected wells and borings

Appendix B.--Stratigraphic logs of selected wells and borings

**Local site numbers:** First two characters indicate U.S. Geological Survey town code. Third character indicates-- A, borings done for hydrologic purposes; B, borings done primarily for constructional purposes; W, well.

**Depth drilled:** Depth drilled in feet below land-surface datum.

**Depth of well:** Depth of well in feet below land-surface datum.

**Depth to refusal:** Depth to bedrock or refusal in feet below land-surface datum.

**Depth to top:** Depth to top of lithologic unit in feet below land-surface datum.

**Depth to bottom:** Depth to bottom of lithologic unit in feet below land-surface datum.

**Aquifer code:**

Codes for the following geologic ages and aquifer materials are given as follows:

- 110ALVM, Quaternary alluvium deposits
- 111SWMP, Holocene swamp deposits
- 110SDMN, Quaternary sediments, undifferentiated
- 112OTSH, Pleistocene outwash deposits
- 110SOIL, Quaternary soil
- 112SRFD, Pleistocene stratified deposits, undifferentiated
- 111FILL, Holocene fill
- 112TILL, Pleistocene till
- 111SOIL, Holocene soil
- BEDROCK, Bedrock

**Lithology code:**

The following lithologic codes are used to describe aquifer units:

- BASEMENT, basement
- MUD, mud
- BLDR, boulders
- OTHR, other
- BLSD, boulders and sand
- PEAT, peat
- CLAY, clay
- ROCK, rock
- CLSD, clay and sand
- SAND, sand
- COBB, cobbles
- SDCL, sand and clay
- COSSD, cobbles and sand
- SDGL, sand and gravel
- GNSS, gneiss
- SDST, sand and silt
- GRCL, gravel and clay
- SGVC, sand, gravel, and clay
- GRDS, gravel, sand, and silt
- SILT, silt
- GRVL, gravel
- SNCL, sand, some clay
- HRDP, hardpan
- SOIL, soil
- LOAM, loam
- STCL, silt and clay
- MUCK, muck
- TILL, till

The following abbreviations are used to modify the lithologic descriptions: C, coarse; CL, clay; CS, coarse sand; F, fine; G, gravel; M, medium; R, rock; SLT, silt; VF, very fine.

Appendix B.--Stratigraphic logs of selected wells and borings  
[--, no data available]

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|---------------------|------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                         |                     |                        |              |                 |                         |
| Cheshire County   |                      |                      |                         |                     |                        |              |                 |                         |
| Dublin            |                      |                      |                         |                     |                        |              |                 |                         |
| DKB 1             | 27.0                 | --                   | --                      | 0.0                 | 12.0                   | 112TILL      | TILL            | Till, sandy; boulders   |
| DKB 3             | 27.0                 | --                   | --                      | 0.0                 | 1.0                    | 110SOIL      | SOIL            |                         |
|                   |                      |                      |                         | 1.0                 | 12.0                   | 112TILL      | TILL            | Sandy                   |
|                   |                      |                      |                         | 12.0                | --                     | BEDROCK      | ROCK            |                         |
| DKB 4             | 22.0                 | --                   | --                      | 0.0                 | 1.0                    | 110SOIL      | SOIL            |                         |
|                   |                      |                      |                         | 1.0                 | 11.0                   | 112TILL      | TILL            | Sandy                   |
|                   |                      |                      |                         | 11.0                | --                     | BEDROCK      | ROCK            |                         |
| DKW 17            | --                   | 150.0                | --                      | 25.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 19            | --                   | 225.0                | --                      | 70.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 22            | --                   | 80.0                 | --                      | 17.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 27            | --                   | 135.0                | --                      | 20.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 29            | --                   | 102.0                | --                      | 40.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 30            | --                   | 50.0                 | --                      | 20.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 31            | --                   | 100.0                | --                      | 68.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 32            | --                   | 84.0                 | --                      | 20.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 34            | --                   | 174.0                | --                      | 88.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 35            | --                   | 100.0                | --                      | 60.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 36            | --                   | 200.0                | --                      | 70.0                | --                     | BEDROCK      | ROCK            | --                      |
| DKW 38            | --                   | 295.0                | --                      | 138.0               | --                     | BEDROCK      | ROCK            | --                      |
| DKW 39            | --                   | 108.0                | --                      | 54.0                | --                     | BEDROCK      | ROCK            | --                      |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| DKW 40            | --                   | 230.0                | --                          | 100.0                          | --           | BEDROCK          | ROCK --                 |
| DKW 41            | --                   | 163.0                | --                          | 70.0                           | --           | BEDROCK          | ROCK --                 |
| DKW 42            | --                   | 100.0                | --                          | 9.0                            | --           | BEDROCK          | ROCK --                 |
| DKW 43            | --                   | 85.0                 | --                          | 23.0                           | --           | BEDROCK          | ROCK --                 |
| DKW 44            | --                   | 196.0                | --                          | 117.0                          | --           | BEDROCK          | ROCK --                 |
| DKW 45            | --                   | 70.0                 | --                          | 30.0                           | --           | BEDROCK          | ROCK --                 |
| DKW 46            | --                   | 137.0                | --                          | 72.0                           | --           | BEDROCK          | ROCK --                 |
| DKW 47            | --                   | 125.0                | --                          | 80.0                           | --           | BEDROCK          | ROCK --                 |
| DKW 48            | --                   | 250.0                | --                          | 0.0                            | 35.0         | 110SDMN          | ROCK                    |
| DKW 49            | 60.0                 | --                   | --                          | 0.0                            | 0.5          | 110SOIL          | SOIL                    |
|                   |                      |                      |                             | 0.5                            | 15.0         | 112TILL          | SAND                    |
|                   |                      |                      |                             | 15.0                           | 16.0         | 112TILL          | BLDR                    |
|                   |                      |                      |                             | 16.0                           | 30.0         | 112TILL          | SILT                    |
|                   |                      |                      |                             | 30.0                           | --           | 112TILL          | CLAY                    |
|                   |                      |                      |                             |                                |              |                  | Silty, with gravel      |
| DKW 50            | --                   | 280.0                | --                          | 0.0                            | 25.0         | 110SDMN          | ROCK                    |
|                   |                      |                      |                             | 25.0                           | --           | BEDROCK          | ROCK                    |
| DKW 53            | --                   | 150.0                | --                          | 0.0                            | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN          | SOGL                    |
|                   |                      |                      |                             | 86.0                           | --           | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| DKW 54            | --                   | 350.0                | --                          | 0.0                            | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | --           | 112TILL          | Clay, hardpan           |
|                   |                      |                      |                             | --                             | --           | 110SDMN          | Gravel, hardpan         |
|                   |                      |                      |                             | 80.0                           | --           | BEDROCK          | ROCK                    |
| DKW 55            | --                   | 200.0                | --                          | 25.0                           | --           | BEDROCK          | ROCK                    |
| DKW 57            | --                   | 80.0                 | --                          | 0.0                            | --           | 110SDMN          | SOGL                    |
|                   |                      |                      |                             | --                             | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | 25.0                           | --           | BEDROCK          | ROCK                    |
| DKW 58            | --                   | 60.2                 | --                          | 0.0                            | --           | 110SDMN          | SOGL                    |
|                   |                      |                      |                             | 15.0                           | --           | 110SDMN          | CLAY                    |
| DKW 59            | --                   | 163.0                | --                          | 0.0                            | --           | 110SDMN          | SAND                    |
|                   |                      |                      |                             | 5.0                            | --           | BEDROCK          | ROCK                    |
| DKW 60            | --                   | 160.0                | --                          | 10.0                           | --           | BEDROCK          | ROCK                    |
| DKW 61            | --                   | 269.0                | --                          | 0.0                            | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | --           | 112TILL          | Sand, gravel, hardpan   |
|                   |                      |                      |                             | 85.0                           | --           | BEDROCK          | ROCK                    |
| DKW 62            | --                   | 350.0                | --                          | 0.0                            | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | --           | 112TILL          | Clay, hardpan           |
|                   |                      |                      |                             | 110.0                          | --           | BEDROCK          | Sand, hardpan           |
| DKW 63            | --                   | 200.0                | --                          | 0.0                            | --           | 110SDMN          | CLAY                    |
|                   |                      |                      |                             | 18.0                           | --           | BEDROCK          | ROCK                    |
| DKW 65            | --                   | 226.0                | --                          | 0.0                            | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN          | SOGL                    |
|                   |                      |                      |                             | 135.0                          | --           | BEDROCK          | ROCK                    |
| DKW 67            | --                   | 130.0                | --                          | 0.0                            | --           | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN          | CLAY                    |
|                   |                      |                      |                             | 100.0                          | --           | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                             |                                |                  |                         |
| Cheshire County   |                      |                      |                             |                                |                  |                         |
| Dublin--Continued |                      |                      |                             |                                |                  |                         |
| DKW 68            | --                   | 142.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | --                             | 112TILL TILL     |                         |
|                   |                      |                      |                             | --                             | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 55.0                           | BEDROCK ROCK     |                         |
| DKW 69            | --                   | 170.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 130.0                          | BEDROCK ROCK     |                         |
| DKW 70            | --                   | 275.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | --                             | 112TILL TILL     | Clay, hardpan           |
|                   |                      |                      |                             | 135.0                          | BEDROCK ROCK     |                         |
| DKW 71            | --                   | 145.0                | --                          | 40.0                           | BEDROCK ROCK     |                         |
| DKW 72            | --                   | 645.0                | --                          | 0.0                            | 110SDMN SGVC     |                         |
|                   |                      |                      |                             | 85.0                           | BEDROCK ROCK     |                         |
| DKW 73            | --                   | 116.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 8.0                            | BEDROCK ROCK     |                         |
| DKW 74            | --                   | 220.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 52.0                           | BEDROCK ROCK     |                         |
| DKW 75            | --                   | 80.0                 | --                          | 0.0                            | 110SDMN SGVC     |                         |
|                   |                      |                      |                             | 16.0                           | BEDROCK ROCK     |                         |
| DKW 76            | --                   | 120.0                | --                          | 18.0                           | BEDROCK ROCK     |                         |
| DKW 77            | --                   | 220.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 29.0                           | BEDROCK ROCK     |                         |
| DKW 78            | --                   | 120.0                | --                          | 28.0                           | BEDROCK ROCK     |                         |
| DKW 79            | --                   | 360.0                | --                          | 178.0                          | BEDROCK ROCK     |                         |
| DKW 80            | --                   | 280.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 93.0                           | BEDROCK ROCK     |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                             |                                |                  |                         |
| Cheshire County   |                      |                      |                             |                                |                  |                         |
| Dublin--Continued |                      |                      |                             |                                |                  |                         |
| DKW 81            | --                   | 300.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 45.0                           | BEDROCK ROCK     |                         |
| DKW 82            | --                   | 200.0                | --                          | 8.0                            | BEDROCK ROCK     |                         |
| DKW 83            | --                   | 350.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 8.0                            | BEDROCK ROCK     |                         |
| DKW 85            | --                   | 400.0                | --                          | 0.0                            | 112TILL TILL     | Clay, hardpan           |
|                   |                      |                      |                             | --                             | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 140.0                          | BEDROCK ROCK     |                         |
| DKW 86            | --                   | 150.0                | --                          | 0.0                            | 110SDMN OTHR     |                         |
|                   |                      |                      |                             | 5.0                            | BEDROCK ROCK     |                         |
| DKW 87            | --                   | 154.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 5.0                            | BEDROCK ROCK     |                         |
| DKW 88            | --                   | 320.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 135.0                          | BEDROCK ROCK     |                         |
| DKW 89            | --                   | 400.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 6.0                            | BEDROCK ROCK     |                         |
| DKW 90            | --                   | 155.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 20.0                           | BEDROCK ROCK     |                         |
| DKW 91            | --                   | 380.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 37.0                           | BEDROCK ROCK     |                         |
| DKW 92            | --                   | 220.0                | --                          | 40.0                           | BEDROCK ROCK     |                         |
| DKW 93            | --                   | 260.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 120.0                          | BEDROCK ROCK     |                         |
| DKW 94            | --                   | 200.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 1.0                            | BEDROCK ROCK     |                         |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                           |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|---|
| Cheshire County   |                      |                      |                             |                                |                  |   |
| Dublin--Continued |                      |                      |                             |                                |                  |   |
| DKW 95            | --                   | 260.0                | --                          | 0.0                            | 110SDMN SDGL     |   |
|                   |                      |                      |                             | 38.0                           | BEDROCK          | ROCK  |
| DKW 96            | --                   | 265.0                | --                          | 135.0                          | BEDROCK          | ROCK  |
| DKW 103           | 69.0                 | 17.0                 | --                          | 0.0                            | 112SRFD SAND     | Coarse to medium sand, fine sand, silt, gravel    |
|                   |                      |                      |                             | 63.0                           | 112TILL          | TILL  |
| DKW 105           | --                   | 274.0                | --                          | 0.0                            | 110SDMN SDGL     |   |
|                   |                      |                      |                             | 60.0                           | BEDROCK          | ROCK  |
| DKW 106           | --                   | 19.0                 | --                          | 0.0                            | 112TILL          | TILL Sand, gravel, hardpan                        |
| Harrisville       |                      |                      |                             |                                |                  |   |
| H1A 1             | 88.0                 | --                   | 88                          | 0.0                            | 110SOIL          | SOIL Top soil                                     |
|                   |                      |                      |                             | 10.0                           | 112SRFD SDGL     | Coarse to very coarse sand, fine to coarse gravel |
|                   |                      |                      |                             | 44.0                           | 112SRFD SAND     | Fine to medium sand                               |
|                   |                      |                      |                             | 84.0                           | 112TILL          | TILL  |
| H1B 1             | 31.0                 | --                   | --                          | 0.0                            | 112SRFD SDGL     | Gravel, sand, boulders                            |
|                   |                      |                      |                             | 8.0                            | 112SRFD SAND     | Fine sand   |
|                   |                      |                      |                             | 16.0                           | 112SRFD GRVL     | Gravel, sandy                                     |
| H1B 3             | 31.0                 | --                   | --                          | 0.0                            | 110SDMN SDGL     | Boulders  |
|                   |                      |                      |                             | 8.0                            | 112SRFD SAND     | Fine  |
|                   |                      |                      |                             | 16.0                           | 1120TSH GRVL     | Sandy   |
| H1W 7             | --                   | 214.0                | --                          | 78.0                           | BEDROCK          | ROCK --   |
| H1W 8             | --                   | 155.0                | --                          | 20.0                           | BEDROCK          | ROCK --   |
| H1W 13            | --                   | 375.0                | --                          | 4.0                            | BEDROCK          | ROCK --   |
|                   |                      |                      |                             | --                             |                  |   |
| H1W 15            | --                   | 139.0                | --                          | 24.0                           | BEDROCK          | ROCK --   |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number      | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material         |
|------------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|---------------------------------|
| Cheshire County        |                      |                      |                             |                                |                  |                                 |
| Harrisville--Continued |                      |                      |                             |                                |                  |                                 |
| H1W 16                 | --                   | 99.0                 | --                          | 17.0                           | BEDROCK          | ROCK --                         |
| H1W 17                 | --                   | 118.0                | --                          | 9.0                            | BEDROCK          | ROCK --                         |
| H1W 18                 | --                   | 117.0                | --                          | 37.0                           | BEDROCK          | ROCK --                         |
| H1W 26                 | --                   | 133.0                | --                          | 19.0                           | BEDROCK          | ROCK --                         |
| H1W 27                 | --                   | 150.0                | --                          | 91.0                           | BEDROCK          | ROCK --                         |
| H1W 28                 | --                   | 127.0                | --                          | 105.0                          | BEDROCK          | ROCK --                         |
| H1W 30                 | --                   | 86.0                 | --                          | 4.0                            | BEDROCK          | ROCK --                         |
| H1W 31                 | 46.0                 | 19.0                 | --                          | 0.0                            | 112SRFD SAND     | Medium-fine Sand, little gravel |
|                        |                      |                      |                             | 2.0                            | 112TILL          | SILT                            |
|                        |                      |                      |                             | 13.5                           | 112TILL          | SILT Little sand, gravel, clay  |
|                        |                      |                      |                             | 46.0                           | BEDROCK          | ROCK                            |
| H1W 32                 | 30.8                 | 18.5                 | --                          | 0.0                            | 110SOIL          | SOIL                            |
|                        |                      |                      |                             | 1.0                            | 112TILL          | SILT sandy, little gravel       |
| H1W 34                 | --                   | 500.0                | --                          | 0.0                            | 112TILL          | TILL                            |
|                        |                      |                      |                             | 45.0                           | BEDROCK          | ROCK                            |
| H1W 35                 | --                   | 140.0                | --                          | 0.0                            | 110SDMN          | CLAY                            |
|                        |                      |                      |                             | 30.0                           | BEDROCK          | ROCK                            |
| H1W 38                 | --                   | 220.0                | --                          | 0.0                            | 110SDMN SAND     | SAND                            |
|                        |                      |                      |                             | 6.0                            | BEDROCK          | ROCK                            |
| H1W 39                 | --                   | 800.0                | --                          | 20.0                           | BEDROCK          | ROCK                            |
| H1W 40                 | --                   | 200.0                | --                          | 0.0                            | 110SDMN          | SAND                            |
|                        |                      |                      |                             | --                             | 112TILL          | TILL                            |
|                        |                      |                      |                             | 100.0                          | BEDROCK          | ROCK                            |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number      | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|------------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|-----------------|-------------------------|
| Cheshire County        |                      |                      |                         |                                |              |                 |                         |
| Harrisville--Continued |                      |                      |                         |                                |              |                 |                         |
| HIW 41                 | --                   | 200.0                | --                      | 0.0                            | 110SDMN      | SDGL            |                         |
|                        |                      |                      |                         | 25.0                           | --           | BEDROCK         | ROCK                    |
| HIW 44                 | --                   | 280.0                | --                      | 30.0                           | --           | BEDROCK         | ROCK                    |
| HIW 45                 | --                   | 260.0                | --                      | 90.0                           | --           | BEDROCK         | ROCK                    |
| HIW 46                 | --                   | 480.0                | --                      | 5.0                            | --           | BEDROCK         | ROCK                    |
| HIW 47                 | --                   | 460.0                | --                      | 70.0                           | --           | BEDROCK         | ROCK                    |
| HIW 48                 | --                   | 140.0                | --                      | 0.0                            | 110SDMN      | CLAY            |                         |
|                        |                      |                      |                         | 10.0                           | --           | BEDROCK         | ROCK                    |
| HIW 49                 | --                   | 340.0                | --                      | 41.0                           | --           | BEDROCK         | ROCK                    |
| HIW 52                 | --                   | 80.0                 | --                      | 0.0                            | 110SDMN      | CLAY            |                         |
|                        |                      |                      |                         | 6.0                            | --           | BEDROCK         | ROCK                    |
| HIW 53                 | --                   | 400.0                | --                      | 0.0                            | 110SDMN      | SAND            |                         |
|                        |                      |                      |                         | 4.0                            | --           | BEDROCK         | ROCK                    |
| HIW 55                 | --                   | 160.0                | --                      | 0.0                            | 110SDMN      | CLAY            |                         |
|                        |                      |                      |                         | 30.0                           | --           | BEDROCK         | ROCK                    |
| HIW 57                 | --                   | 250.0                | --                      | 0.0                            | 112TILL      | TILL            |                         |
|                        |                      |                      |                         | 150.0                          | --           | BEDROCK         | ROCK                    |
| HIW 59                 | --                   | 150.0                | --                      | 0.0                            | 110SDMN      | SAND            |                         |
|                        |                      |                      |                         | 2.0                            | --           | BEDROCK         | ROCK                    |
| HIW 60                 | --                   | 500.0                | --                      | 30.0                           | --           | BEDROCK         | ROCK                    |
| HIW 61                 | --                   | 300.0                | --                      | 0.0                            | 110SDMN      | SDGL            |                         |
|                        |                      |                      |                         | 30.0                           | --           | BEDROCK         | ROCK                    |
| HIW 62                 | --                   | 240.0                | --                      | 62.0                           | --           | BEDROCK         | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number      | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material                 |
|------------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|-----------------|---|
| Cheshire County        |                      |                      |                         |                                |              |                 |   |
| Harrisville--Continued |                      |                      |                         |                                |              |                 |   |
| HIW 63                 | --                   | 460.0                | --                      | 0.0                            | 112TILL      | TILL            |   |
|                        |                      |                      |                         | 10.0                           | --           | BEDROCK         | ROCK                                    |
| HIW 66                 | --                   | 244.0                | --                      | 48.0                           | --           | BEDROCK         | ROCK                                    |
| HIW 76                 | --                   | 280.0                | --                      | 0.0                            | 110SDMN      | SAND            |   |
|                        |                      |                      |                         | 30.0                           | --           | BEDROCK         | ROCK                                    |
| HIW 77                 | --                   | 425.0                | --                      | 0.0                            | 110SDMN      | SDGL            |   |
|                        |                      |                      |                         | 75.0                           | --           | BEDROCK         | ROCK                                    |
| HIW 78                 | --                   | 400.0                | --                      | 0.0                            | 110SDMN      | SDCL            |   |
|                        |                      |                      |                         | 20.0                           | --           | BEDROCK         | ROCK                                    |
| Jeffrey                |                      |                      |                         |                                |              |                 |   |
| JBB 1                  | 40.0                 | 11.0                 | --                      | 0.0                            | 112SRFD      | SDGL            | Sand, gravel, boulders                  |
|                        |                      |                      |                         | 1.5                            | 112SRFD      | SDGL            | Sand, firm, yellow; gravel              |
|                        |                      |                      |                         | 8.3                            | 112SRFD      | SDCL            | Sand, compact, blue; clay, little       |
|                        |                      |                      |                         | 22.5                           | 112SRFD      | SDCL            | Sand, hard, compact, blue; clay, little |
| JBB 2                  | 17.3                 | 13.4                 | --                      | 0.0                            | 112SRFD      | SDGL            | Sand, gravel, boulder-fill              |
|                        |                      |                      |                         | 7.3                            | 112SRFD      | SDGL            | Fine sand; gravel, little               |
|                        |                      |                      |                         | 11.3                           | 112SRFD      | SAND            | Fine sand                               |
|                        |                      |                      |                         | 14.2                           | 112SRFD      | SDCL            | Sand; gravel; clay, little; boulders    |
| JBB 3                  | 13.0                 | --                   | 13.0                    | 0.0                            | 110SDMN      | SDGL            | Boulders                                |
|                        |                      |                      |                         | 1.7                            | 110SDMN      | SAND            | Little gravel                           |
|                        |                      |                      |                         | 4.8                            | 110SDMN      | SDGL            | Fine, little clay                       |
|                        |                      |                      |                         | 7.7                            | --           | 112TILL         | TILL                                    |
|                        |                      |                      |                         | 7.7                            | --           |                 | Sandy, gravelly                         |
| JBB 4                  | 40.0                 | --                   | --                      | 0.0                            | 110SDMN      | SDGL            | Boulders                                |
|                        |                      |                      |                         | 8.3                            | --           | 112SRFD         | Little clay                             |
| JBW 4                  | --                   | 275.0                | --                      | 105.0                          | --           | BEDROCK         | ROCK                                    |
| JBW 5                  | --                   | 110.0                | --                      | 26.0                           | --           | BEDROCK         | ROCK                                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|

Cheshire County

Jaffrey--Continued

|        |    |       |    |       |    |                 |
|--------|----|-------|----|-------|----|-----------------|
| JBW 6  | -- | 250.0 | -- | 90.0  | -- | BEDROCK ROCK -- |
| JBW 7  | -- | 125.0 | -- | 6.0   | -- | BEDROCK ROCK -- |
| JBW 8  | -- | 395.0 | -- | 8.0   | -- | BEDROCK ROCK -- |
| JBW 9  | -- | 185.0 | -- | 100.0 | -- | BEDROCK ROCK -- |
| JBW 10 | -- | 168.0 | -- | 47.0  | -- | BEDROCK ROCK -- |
| JBW 11 | -- | 180.0 | -- | 96.0  | -- | BEDROCK ROCK -- |
| JBW 12 | -- | 200.0 | -- | 110.0 | -- | BEDROCK ROCK -- |
| JBW 13 | -- | 120.0 | -- | 60.0  | -- | BEDROCK ROCK -- |
| JBW 14 | -- | 159.0 | -- | 24.0  | -- | BEDROCK ROCK -- |
| JBW 15 | -- | 175.0 | -- | 77.0  | -- | BEDROCK ROCK -- |
| JBW 16 | -- | 148.0 | -- | 75.0  | -- | BEDROCK ROCK -- |
| JBW 19 | -- | 209.0 | -- | 100.0 | -- | BEDROCK ROCK -- |
| JBW 20 | -- | 110.0 | -- | 30.0  | -- | BEDROCK ROCK -- |
| JBW 22 | -- | 220.0 | -- | 123.0 | -- | BEDROCK ROCK -- |
| JBW 24 | -- | 233.0 | -- | 0.0   | -- | BEDROCK ROCK -- |
| JBW 25 | -- | 178.0 | -- | 75.0  | -- | BEDROCK ROCK -- |
| JBW 26 | -- | 104.0 | -- | 24.0  | -- | BEDROCK ROCK -- |
| JBW 27 | -- | 150.0 | -- | 45.0  | -- | BEDROCK ROCK -- |
| JBW 28 | -- | 192.0 | -- | 63.0  | -- | BEDROCK ROCK -- |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|

Cheshire County

Jaffrey--Continued

|        |       |       |      |      |         |   |
|--------|-------|-------|------|------|---------|---|
| JBW 30 | --    | 262.0 | --   | 37.0 | --      | BEDROCK ROCK --                               |
| JBW 31 | --    | 442.0 | --   | 25.0 | --      | BEDROCK ROCK --                               |
| JBW 32 | 51.0  | 49.8  | --   | 0.0  | 112SRFD | SAND Fine to medium                           |
|        |       |       |      | 8.0  | 112SRFD | SAND Silty, gravelly, cobbles, boulders       |
|        |       |       |      | 37.0 | 112SRFD | SAND Fine to medium                           |
|        |       |       |      | 38.0 | 112SRFD | SAND Silty, gravelly, cobbles                 |
|        |       |       |      | 42.9 | 112SRFD | SAND Silty, gravelly, cobbles                 |
|        |       |       |      | --   | BEDROCK | ROCK  |
| JBW 33 | 19.5  | 19.5  | 19.5 | 0.0  | 112SRFD | SDGL Coarse, medium                           |
|        |       |       |      | 9.0  | 112SRFD | SDGL Medium to coarse                         |
|        |       |       |      | 13.0 | 112SRFD | SDGL Medium to coarse                         |
|        |       |       |      | 19.5 | 112SRFD | SDGL Medium to coarse                         |
|        |       |       |      | --   | BEDROCK | ROCK  |
| JBW 34 | 49.8  | 49.8  | 18.0 | 0.0  | 112SRFD | SAND Coarse                                   |
|        |       |       |      | 10.0 | 112SRFD | SAND Medium                                   |
|        |       |       |      | 18.0 | 112SRFD | SAND Refusal                                  |
|        |       |       |      | --   |         |   |
| JBW 37 | 91.0  | --    | --   | 0.0  | 111FILL | SAND  |
|        |       |       |      | 36.0 | 112SRFD | SAND Fine to medium, little silt, clay        |
|        |       |       |      | 74.0 | 112SRFD | SAND Some sand                                |
|        |       |       |      | 77.0 | 112SRFD | SILT  |
|        |       |       |      | 84.0 | 112SRFD | SAND Fine to coarse, some gravel, little silt |
|        |       |       |      | --   | 112SRFD | TILL  |
|        |       |       |      | --   |         |   |
| JBW 38 | 61.0  | --    | --   | 0.0  | 111FILL | SAND  |
|        |       |       |      | 36.0 | 111SRFP | PEAT  |
|        |       |       |      | 40.0 | 112SRFD | SAND Fine, trace silt                         |
|        |       |       |      | 57.0 | 112SRFD | SILT Some sand                                |
|        |       |       |      | --   |         |   |
| JBW 39 | 117.0 | --    | --   | 0.0  | 111FILL | SAND Pebbles                                  |
|        |       |       |      | 9.0  | 112SRFD | SAND Fine                                     |
|        |       |       |      | 25.0 | 112SRFD | SAND Silty                                    |
|        |       |       |      | 42.0 | 112SRFD | BLDR  |
|        |       |       |      | 43.0 | 112SRFD | SILT Sand, clay                               |
|        |       |       |      | 47.0 | 112SRFD | SAND Fine to coarse                           |
|        |       |       |      | --   | 112SRFD | SILT Clay                                     |
|        |       |       |      | 61.0 | 112SRFD | SAND  |
|        |       |       |      | 64.0 | 112SRFD | SAND  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code                               | Lithologic code | Description of material     |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--|-----------------|-----------------------------|
| Cheshire County    |                      |                      |                             |                                |  |                 |                             |
| Jaffrey--Continued |                      |                      |                             |                                |  |                 |                             |
| JBW 39--Continued  |                      |                      |                             |                                |  |                 |                             |
|                    | 64.0                 | 68.0                 | 112SRFD                     | SILT                           | Trace clay, trace gravel                   |                 |                             |
|                    | 66.0                 | 97.0                 | 112SRFD                     | SAND                           | F-M, little silt, trace clay, trace gravel |                 |                             |
|                    | 97.0                 | --                   | BEDROCK                     | ROCK                           |  |                 |                             |
| JBW 40             | 36.0                 | --                   | 0.0                         | 30.0                           | 112SRFD                                    | SAND            | Fine                        |
|                    |                      |                      | 30.0                        | 33.0                           | 112SRFD                                    | SAND            | Fine, little gravel, silt   |
|                    |                      |                      | 33.0                        | 34.0                           | 112SRFD                                    | GRVL            |                             |
|                    |                      |                      | 34.0                        | --                             | 112TILL                                    | TILL            |                             |
| JBW 41             | 29.0                 | --                   | 29.0                        | 0.0                            | 111FILL                                    | SAND            | Fine                        |
|                    |                      |                      |                             | 6.0                            | 112SRFD                                    | SAND            | Fine, medium                |
|                    |                      |                      |                             | 14.0                           | --   | 112SRFD         | SAND                        |
|                    |                      |                      |                             |                                | 112SRFD                                    | SAND            | Fine, coarse, little gravel |
| JBW 43             | 53.0                 | 53.0                 | 0.0                         | 1.0                            | 110SOIL                                    | SOIL            |                             |
|                    |                      |                      | 1.0                         | 13.0                           | 112SRFD                                    | SDGL            | Fine                        |
|                    |                      |                      | 13.0                        | 24.0                           | 112SRFD                                    | SDGL            | Fine, medium                |
|                    |                      |                      | 24.0                        | 45.0                           | 112SRFD                                    | SAND            | Medium                      |
|                    |                      |                      | 45.0                        | --                             | 112SRFD                                    | SAND            |                             |
| JBW 44             | --                   | 50.0                 | 0.0                         | 2.0                            | 110SDMN                                    | PEAT            |                             |
|                    |                      |                      | 2.0                         | 12.0                           | 112SRFD                                    | BLDR            | Sand and gravel             |
|                    |                      |                      | 12.0                        | --                             | 112SRFD                                    | SDGL            | Fine, medium                |
| JBW 45             | 88.0                 | 85.0                 | 0.0                         | 14.0                           | 112SRFD                                    | SAND            | Medium                      |
|                    |                      |                      | 14.0                        | 40.0                           | 112SRFD                                    | CLAY            |                             |
|                    |                      |                      | 40.0                        | 60.0                           | 112SRFD                                    | SAND            | Fine, medium, and gravel    |
|                    |                      |                      | 60.0                        | --                             | 112SRFD                                    | SDGL            | Fine, coarse                |
| JBW 46             | 60.0                 | 60.0                 | 0.0                         | 20.0                           | 112SRFD                                    | SAND            | Fine                        |
|                    |                      |                      | 20.0                        | 40.0                           | 112SRFD                                    | SDGL            | Fine, medium                |
|                    |                      |                      | 40.0                        | --                             | 112SRFD                                    | GRVL            | Trace clay                  |
| JBW 47             | --                   | 15.0                 | 0.0                         | 3.0                            | 110SOIL                                    | SOIL            |                             |
|                    |                      |                      | 2.0                         | --                             | 112SRFD                                    | BLDR            | Boulders and gravel         |
| JBW 48             | --                   | 35.0                 | 0.0                         | 20.0                           | 112SRFD                                    | BLDR            | Boulders and gravel         |
|                    |                      |                      | 20.0                        | --                             | 112TILL                                    | TILL            | Clay                        |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material        |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|--------------------------------|
| Cheshire County    |                      |                      |                             |                                |              |                 |                                |
| Jaffrey--Continued |                      |                      |                             |                                |              |                 |                                |
| JBW 49             | --                   | 25.0                 | --                          | 0.0                            | 112SRFD      | SDGL            | Fine, medium                   |
|                    |                      |                      |                             | 16.0                           | --           | 112SRFD         | GRVL                           |
| JBW 50             | 4.0                  | --                   | 0.0                         | --                             | 112TILL      | TILL            |                                |
| JBW 51             | 3.0                  | 3.0                  | --                          | 0.0                            | --           | 112TILL         | TILL                           |
| JBW 52             | 31.0                 | --                   | 31.0                        | 0.0                            | 112SRFD      | SAND            | Fine                           |
|                    |                      |                      |                             | 5.0                            | 112SRFD      | SAND            | Fine sand and clay             |
|                    |                      |                      |                             | 17.0                           | --           | 112SRFD         | SAND                           |
|                    |                      |                      |                             |                                | 112SRFD      | SAND            | Sand, gravel, and clay         |
| JBW 53             | 52.0                 | --                   | 52.0                        | 0.0                            | 112SRFD      | SDCL            | Fine                           |
|                    |                      |                      |                             | 19.0                           | 112SRFD      | SAND            | Fine sand and silt             |
|                    |                      |                      |                             | 34.0                           | 112SRFD      | SAND            | Fine                           |
|                    |                      |                      |                             | 44.0                           | --           | 112SRFD         | SAND                           |
|                    |                      |                      |                             |                                | 112SRFD      | SAND            | Fine sand and silt             |
| JBW 54             | 37.0                 | --                   | 37.0                        | 0.0                            | 112SRFD      | SDGL            | Fine, medium                   |
|                    |                      |                      |                             | 12.0                           | 112SRFD      | SAND            | Medium                         |
|                    |                      |                      |                             | 17.0                           | --           | 112SRFD         | SAND                           |
|                    |                      |                      |                             |                                | 112SRFD      | SAND            | Gravel, clay                   |
| JBW 55             | 4.0                  | --                   | 0.0                         | --                             | 112SRFD      | SAND            | Fine                           |
| JBW 56             | 78.0                 | --                   | 78.0                        | 0.0                            | 112SRFD      | SAND            | Fine                           |
|                    |                      |                      |                             | 37.0                           | --           | 112SRFD         | SAND                           |
|                    |                      |                      |                             |                                | 112SRFD      | SAND            | Sand, fine, silty; little clay |
| JBW 58             | --                   | 605.0                | --                          | 0.0                            | 110SDMN      | SGVC            |                                |
|                    |                      |                      |                             | 45.0                           | --           | BEDROCK         | ROCK                           |
| JBW 59             | --                   | 125.0                | --                          | 0.0                            | 110SDMN      | CLAY            |                                |
|                    |                      |                      |                             | 2.0                            | --           | BEDROCK         | ROCK                           |
| JBW 60             | --                   | 47.0                 | --                          | 0.0                            | 110SDMN      | SAND            |                                |
|                    |                      |                      |                             | 5.0                            | --           | BEDROCK         | ROCK                           |
| JBW 61             | --                   | 110.0                | --                          | 0.0                            | 110SDMN      | CLAY            |                                |
|                    |                      |                      |                             | 73.0                           | --           | BEDROCK         | ROCK                           |

Appendix B...Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| JBW 62            | --                   | 218.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 136.0                       | --                             | BEDROCK      | ROCK             |                         |
| JBW 63            | --                   | 140.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      | 7.0                         | --                             | BEDROCK      | ROCK             |                         |
| JBW 64            | --                   | 275.0                | --                          | 12.0                           | --           | BEDROCK          | ROCK                    |
| JBW 65            | --                   | 200.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      | 15.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 66            | --                   | 595.0                | --                          | 117.0                          | --           | BEDROCK          | ROCK                    |
| JBW 69            | --                   | 125.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 3.0                         | --                             | BEDROCK      | ROCK             |                         |
| JBW 70            | --                   | 320.0                | --                          | 180.0                          | --           | BEDROCK          | ROCK                    |
| JBW 71            | --                   | 200.0                | --                          | 0.0                            | 112TILL      | TILL             | Clay, hardpan           |
|                   |                      |                      | 125.0                       | --                             | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | --                             | BEDROCK      | ROCK             |                         |
| JBW 72            | --                   | 248.0                | --                          | 0.0                            | 112TILL      | TILL             | Clay, hardpan           |
|                   |                      |                      | 190.0                       | --                             | 112TILL      | TILL             | Clay, hardpan           |
|                   |                      |                      |                             | --                             | BEDROCK      | ROCK             |                         |
| JBW 73            | --                   | 185.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 4.0                         | --                             | BEDROCK      | ROCK             |                         |
| JBW 74            | --                   | 165.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 7.0                         | --                             | BEDROCK      | ROCK             |                         |
| JBW 75            | --                   | 305.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 48.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 76            | --                   | 205.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 71.0                        | --                             | BEDROCK      | ROCK             |                         |

Cheshire County

Jaffrey--Continued

Appendix B...Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| JBW 78            | --                   | 125.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 55.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 79            | --                   | 155.0                | --                          | 0.0                            | 110SDMN      | SAND             |                         |
|                   |                      |                      | 8.0                         | --                             | BEDROCK      | ROCK             |                         |
| JBW 80            | --                   | 155.0                | --                          | 15.0                           | --           | BEDROCK          | ROCK                    |
| JBW 81            | --                   | 126.0                | --                          | 0.0                            | 110SDMN      | SAND             |                         |
|                   |                      |                      | 13.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 82            | --                   | 306.0                | --                          | 80.0                           | --           | BEDROCK          | ROCK                    |
| JBW 83            | --                   | 125.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 7.0                         | --                             | BEDROCK      | ROCK             |                         |
| JBW 85            | --                   | 220.0                | --                          | 0.0                            | 110SDMN      | SGVC             |                         |
|                   |                      |                      | 21.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 86            | --                   | 440.0                | --                          | 0.0                            | 110SDMN      | SGVC             |                         |
|                   |                      |                      | 45.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 88            | --                   | 405.0                | --                          | 0.0                            | 110SDMN      | SGVC             |                         |
|                   |                      |                      | 39.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 90            | --                   | 240.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 11.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 91            | --                   | 300.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 70.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 95            | --                   | 300.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 13.0                        | --                             | BEDROCK      | ROCK             |                         |
| JBW 96            | --                   | 280.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 212.0                       | --                             | BEDROCK      | ROCK             |                         |

Cheshire County

Jaffrey--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code    | Description of material |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--------------------|-------------------------|
| Cheshire County    |                      |                      |                             |                                |              |                    |                         |
| Jaffrey--Continued |                      |                      |                             |                                |              |                    |                         |
| JBW 97             | --                   | 365.0                | --                          | 0.0                            | 35.0         | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 98             | --                   | 345.0                | --                          | 0.0                            | 25.0         | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 99             | --                   | 710.0                | --                          | 0.0                            | 40.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 100            | --                   | 160.0                | --                          | 0.0                            | 18.0         | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 101            | --                   | 280.0                | --                          | 30.0                           | --           | BEDROCK            | ROCK                    |
| JBW 102            | --                   | 500.0                | --                          | 0.0                            | 20.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 103            | --                   | 140.0                | --                          | 0.0                            | 20.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 104            | --                   | 300.0                | --                          | 0.0                            | 38.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 105            | --                   | 300.0                | --                          | 0.0                            | 47.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 106            | --                   | 280.0                | --                          | 0.0                            | 32.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 107            | --                   | 240.0                | --                          | 0.0                            | 4.0          | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 108            | --                   | 420.0                | --                          | 0.0                            | 72.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 109            | --                   | 300.0                | --                          | 0.0                            | 110.0        | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code    | Description of material |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--------------------|-------------------------|
| Cheshire County    |                      |                      |                             |                                |              |                    |                         |
| Jaffrey--Continued |                      |                      |                             |                                |              |                    |                         |
| JBW 110            | --                   | 280.0                | --                          | 0.0                            | 100.0        | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 111            | --                   | 300.0                | --                          | 0.0                            | 18.0         | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 112            | --                   | 365.0                | --                          | 0.0                            | 3.0          | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 113            | --                   | 160.0                | --                          | 0.0                            | 71.0         | 112TILL<br>BEDROCK | TILL<br>ROCK            |
| JBW 114            | --                   | 280.0                | --                          | 0.0                            | 80.0         | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 116            | --                   | 233.0                | --                          | 70.0                           | --           | BEDROCK            | ROCK                    |
| JBW 117            | --                   | 200.0                | --                          | 0.0                            | --           | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 118            | --                   | 180.0                | --                          | 0.0                            | 122.0        | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 119            | --                   | 300.0                | --                          | 0.0                            | 58.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 120            | --                   | 140.0                | --                          | 0.0                            | 9.5          | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| JBW 122            | --                   | 500.0                | --                          | 138.0                          | --           | BEDROCK            | ROCK                    |
| JBW 123            | --                   | 260.0                | --                          | 0.0                            | 97.0         | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 124            | --                   | 340.0                | --                          | 0.0                            | 162.0        | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| JBW 125            | --                   | 500.0                | --                          | 220.0                          | --           | BEDROCK            | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                             |                                |              |                 |                         |
| JBW 126           | --                   | 250.0                | --                          | 0.0                            | 30.0         | 110SDMN SDGL    |                         |
|                   |                      |                      |                             | 30.0                           | --           | BEDROCK         | ROCK                    |
| JBW 127           | --                   | 300.0                | --                          | 0.0                            | 15.0         | 110SDMN SDGL    |                         |
|                   |                      |                      |                             | 15.0                           | --           | BEDROCK         | ROCK                    |
| JBW 128           | --                   | 300.0                | --                          | 0.0                            | 120.0        | 110SDMN SDGL    |                         |
|                   |                      |                      |                             | 120.0                          | --           | BEDROCK         | ROCK                    |
| JBW 129           | --                   | 500.0                | --                          | 155.0                          | --           | BEDROCK         | ROCK                    |
| JBW 130           | --                   | 180.0                | --                          | 0.0                            | 9.0          | 112TILL         | TILL                    |
|                   |                      |                      |                             | 9.0                            | --           | BEDROCK         | ROCK                    |
| JBW 131           | --                   | 320.0                | --                          | 0.0                            | 78.0         | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 78.0                           | --           | BEDROCK         | ROCK                    |
| JBW 132           | --                   | 180.0                | --                          | 0.0                            | 9.0          | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 9.0                            | --           | BEDROCK         | ROCK                    |
| JBW 133           | --                   | 500.0                | --                          | 0.0                            | 120.0        | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 120.0                          | --           | BEDROCK         | ROCK                    |
| JBW 134           | --                   | 360.0                | --                          | 0.0                            | 57.0         | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 57.0                           | --           | BEDROCK         | ROCK                    |
| JBW 135           | --                   | 340.0                | --                          | 0.0                            | 50.0         | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 50.0                           | --           | BEDROCK         | ROCK                    |
| JBW 136           | --                   | 480.0                | --                          | 0.0                            | 60.0         | 110SDMN SDGL    |                         |
|                   |                      |                      |                             | 60.0                           | --           | BEDROCK         | ROCK                    |
| JBW 138           | --                   | 205.0                | --                          | 0.0                            | 2.0          | 110SDMN SDGL    |                         |
|                   |                      |                      |                             | 2.0                            | --           | BEDROCK         | ROCK                    |
| JBW 140           | --                   | 180.0                | --                          | 0.0                            | 20.0         | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 20.0                           | --           | BEDROCK         | ROCK                    |

Cheshire County

Jaffrey--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                             |                                |              |                 |                         |
| JBW 142           | --                   | 520.0                | --                          | 0.0                            | --           | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | --                             | --           | 110SDMN SDGL    |                         |
|                   |                      |                      |                             | 120.0                          | --           | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | --                             | --           | BEDROCK         | ROCK                    |
| JBW 143           | --                   | 260.0                | --                          | 0.0                            | 32.0         | 110SDMN CLAY    |                         |
|                   |                      |                      |                             | 32.0                           | --           | BEDROCK         | ROCK                    |
| JBW 145           | --                   | 400.0                | --                          | 0.0                            | 3.0          | 110SDMN SAND    |                         |
|                   |                      |                      |                             | 3.0                            | --           | BEDROCK         | ROCK                    |
| NBW 24            | --                   | 226.0                | --                          | 8.0                            | --           | BEDROCK         | ROCK                    |
| NBW 25            | --                   | 300.0                | --                          | 85.0                           | --           | BEDROCK         | ROCK                    |
| NBW 37            | --                   | 169.0                | --                          | 35.0                           | --           | BEDROCK         | ROCK                    |
| NBW 43            | --                   | 280.0                | --                          | 0.0                            | 2.0          | 112TILL         | TILL                    |
|                   |                      |                      |                             | 2.0                            | --           | BEDROCK         | ROCK                    |
| NBW 46            | --                   | 340.0                | --                          | 0.0                            | 9.0          | 112TILL         | TILL                    |
|                   |                      |                      |                             | 9.0                            | --           | BEDROCK         | ROCK                    |
| RGW 1             | --                   | 119.0                | --                          | 49.0                           | --           | BEDROCK         | ROCK                    |
|                   |                      |                      |                             | --                             | --           | BEDROCK         | ROCK                    |
| RGW 2             | --                   | 127.0                | --                          | 37.0                           | --           | BEDROCK         | ROCK                    |
|                   |                      |                      |                             | --                             | --           | BEDROCK         | ROCK                    |
| RGW 3             | --                   | 175.0                | --                          | 84.0                           | --           | BEDROCK         | ROCK                    |
| RGW 4             | --                   | 230.0                | --                          | 44.0                           | --           | BEDROCK         | ROCK                    |

Cheshire County

Jaffrey--Continued

Nelson

Rindge

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled of well (feet) | Depth of well refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                               |
|-------------------|------------------------------|------------------------------|---------------------|--------------------------------|------------------|---|
| RGW 5             | --                           | 100.0                        | --                  | 38.0                           | --               | BEDROCK ROCK --                                       |
| RGW 6             | --                           | 164.0                        | --                  | 15.0                           | --               | BEDROCK ROCK --                                       |
| RGW 7             | --                           | 130.0                        | --                  | 20.0                           | --               | BEDROCK ROCK --                                       |
| RGW 8             | --                           | 380.0                        | --                  | 153.0                          | --               | BEDROCK ROCK --                                       |
| RGW 9             | --                           | 108.0                        | --                  | 15.0                           | --               | BEDROCK ROCK --                                       |
| RGW 10            | --                           | 228.0                        | --                  | 34.0                           | --               | BEDROCK ROCK --                                       |
| RGW 11            | --                           | 140.0                        | --                  | 140.0                          | --               | BEDROCK ROCK --                                       |
| RGW 12            | --                           | 275.0                        | --                  | 74.0                           | --               | BEDROCK ROCK --                                       |
| RGW 13            | --                           | 109.0                        | --                  | 13.0                           | --               | BEDROCK ROCK --                                       |
| RGW 14            | --                           | 114.0                        | --                  | 18.0                           | --               | BEDROCK ROCK --                                       |
| RGW 15            | --                           | 107.0                        | --                  | 16.0                           | --               | BEDROCK ROCK --                                       |
| RGW 18            | --                           | 205.0                        | --                  | 0.0                            | 52.0             | 110SDMH SAND<br>BEDROCK ROCK                          |
| RGW 20            | --                           | 155.0                        | --                  | 0.0                            | 5.0              | 112TILL TILL<br>BEDROCK ROCK                          |
| RGW 21            | --                           | 445.0                        | --                  | 0.0                            | 5.0              | 112TILL TILL<br>BEDROCK ROCK                          |
| RGW 25            | 10.8                         | 9.0                          | 10.8                | 0.0                            | 7.0              | 112SRFD SAND<br>Fine; clay; gravel; cobbles; boulders |
|                   |                              |                              | 7.0                 | 10.8                           | 112SRFD SAND     | Fine to medlum; gravel; cobbles; boulders             |
|                   |                              |                              | 10.8                | --                             | --               | Refusal   |

B-22

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled of well (feet) | Depth of well refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                      |
|-------------------|------------------------------|------------------------------|---------------------|--------------------------------|------------------|--|
| RGW 26            | --                           | 285.0                        | --                  | 0.0                            | 8.0              | 110SDMH SDGL<br>BEDROCK ROCK                 |
| RGW 33            | --                           | 200.0                        | --                  | 0.0                            | 48.0             | 110SDMH SDGL<br>BEDROCK ROCK                 |
| RGW 40            | --                           | 225.0                        | --                  | 0.0                            | 56.0             | 110SDMH CLAY<br>BEDROCK ROCK                 |
| RGW 43            | --                           | 120.0                        | --                  | 0.0                            | 16.0             | 110SDMH SDGL<br>BEDROCK ROCK                 |
| RGW 44            | --                           | 120.0                        | --                  | 0.0                            | 29.0             | 110SDMH SDGL<br>BEDROCK ROCK                 |
| RGW 60            | --                           | 500.0                        | --                  | 113.0                          | --               | BEDROCK ROCK                                 |
| RGW 61            | --                           | 330.0                        | --                  | 0.0                            | --               | 110SDMH SAND<br>110SDMH CLAY<br>BEDROCK ROCK |
| RGW 63            | --                           | 305.0                        | --                  | 0.0                            | 40.0             | 110SDMH SDGL<br>BEDROCK ROCK                 |
| RGW 64            | --                           | 105.0                        | --                  | 12.0                           | --               | BEDROCK ROCK                                 |
| RGW 70            | --                           | 200.0                        | --                  | 0.0                            | 0.0              | 110SDMH CLAY<br>BEDROCK ROCK                 |
| RGW 76            | --                           | 210.0                        | --                  | 0.0                            | 0.0              | 110SDMH SDGL<br>BEDROCK ROCK                 |
| RGW 80            | --                           | 460.0                        | --                  | 141.0                          | --               | BEDROCK ROCK                                 |

Cheshire County

Rindge--Continued

B-23



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| RGW 107           | 81.0                 | 24.0                 | 81.0                        | 0.0                            | 112SRFD      | SAND             | Coarse with pebbles     |
|                   |                      |                      |                             | 17.0                           | 112SRFD      | SAND             | Medium                  |
|                   |                      |                      |                             | 27.0                           | 112SRFD      | SAND             | Fine to very fine       |
|                   |                      |                      |                             | 47.0                           | 112SRFD      | SDCL             | Fine, clayey            |
|                   |                      |                      |                             | 75.0                           | 112SRFD      | SDCL             | Fine, clayey            |
|                   |                      |                      |                             | 75.0                           | 112TILL      | TILL             |                         |
| RGW 108           | 34.0                 | 17.0                 | 34.0                        | 0.0                            | 112SRFD      | SDGL             |                         |
|                   |                      |                      |                             | 17.5                           | 112SRFD      | STCL             | Some fine sand at top   |
|                   |                      |                      |                             | 30.0                           | 112TILL      | TILL             |                         |
| SPB 1             | 30.0                 | --                   | --                          | 0.0                            | 110SDMN      | SDGL             | Boulders                |
|                   |                      |                      |                             | 9.0                            | BEDROCK      | ROCK             | Bedrock core taken      |
| SPB 2             | 20.0                 | --                   | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 4.0                            | BEDROCK      | ROCK             |                         |
| SPW 6             | --                   | 114.0                | --                          | 42.0                           | BEDROCK      | ROCK             | --                      |
| SPW 11            | --                   | 300.0                | --                          | 20.0                           | BEDROCK      | ROCK             | --                      |
| SPW 15            | --                   | 185.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 100.0                          | BEDROCK      | ROCK             |                         |
| SPW 17            | --                   | 221.0                | --                          | 0.0                            | 110SDMN      | SAND             |                         |
|                   |                      |                      |                             | --                             | 110SDMN      | CLAY             |                         |
|                   |                      |                      |                             | 25.0                           | BEDROCK      | ROCK             |                         |
| SPW 18            | --                   | 405.0                | --                          | 0.0                            | 112TILL      | TILL             |                         |
|                   |                      |                      |                             | 27.0                           | BEDROCK      | ROCK             |                         |
| SPW 20            | --                   | 415.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 48.0                           | BEDROCK      | ROCK             |                         |
| SPW 21            | --                   | 445.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 50.0                           | BEDROCK      | ROCK             |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| SPW 22            | --                   | 300.0                | --                          | 0.0                            | 112TILL      | TILL             | Gravel, hardpan         |
|                   |                      |                      |                             | --                             | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 80.0                           | BEDROCK      | ROCK             |                         |
| SPW 24            | --                   | 202.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 6.0                            | BEDROCK      | ROCK             |                         |
| SPW 25            | --                   | 211.0                | --                          | 65.0                           | BEDROCK      | ROCK             |                         |
| SPW 26            | --                   | 241.0                | --                          | 30.0                           | BEDROCK      | ROCK             |                         |
| SPW 27            | --                   | 170.0                | --                          | 0.0                            | 112TILL      | TILL             | Sand, hardpan           |
|                   |                      |                      |                             | --                             | 112TILL      | TILL             | Gravel, clay, hardpan   |
|                   |                      |                      |                             | 95.0                           | BEDROCK      | ROCK             |                         |
| SPW 28            | --                   | 245.0                | --                          | 65.0                           | BEDROCK      | ROCK             |                         |
| SPW 29            | --                   | 505.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | --                             | 110SDMN      | CLAY             |                         |
|                   |                      |                      |                             | 55.0                           | BEDROCK      | ROCK             |                         |
| SPW 30            | --                   | 220.0                | --                          | 35.0                           | BEDROCK      | ROCK             |                         |
| SPW 31            | --                   | 100.0                | --                          | 0.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      |                             | 47.0                           | BEDROCK      | ROCK             |                         |
| SPW 32            | --                   | 340.0                | --                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      |                             | 10.0                           | BEDROCK      | ROCK             |                         |
| SPW 33            | --                   | 300.0                | --                          | 9.0                            | BEDROCK      | ROCK             |                         |
| SPW 78            | --                   | 140.0                | --                          | 0.0                            | 112TILL      | TILL             | Clay, hardpan           |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Depth to top of unit (feet) | Litho-logic code | Description of material              |
|---------------------|------------------------------|-------------------------|--------------------------------|-----------------------------|------------------|--------------------------------------|
| Hillsborough County |                              |                         |                                |                             |                  |                                      |
| Antrim              |                              |                         |                                |                             |                  |                                      |
| A08 1               | 42.0                         | --                      | 0.0                            | 1.0                         | 110SOIL          | SOIL                                 |
|                     |                              |                         | 1.0                            | 5.0                         | 111FILL          | SAND                                 |
|                     |                              |                         | 5.0                            | 9.0                         | 110SDMH          | GRVL Sandy                           |
|                     |                              |                         | 9.0                            | 12.0                        | 112SRFD          | SILT Sandy                           |
|                     |                              |                         | 12.0                           | --                          | 112TILL          | TILL Clay                            |
| A08 2               | 18.0                         | --                      | 0.0                            | 6.0                         | 110SDMH          | SAND Silty                           |
|                     |                              |                         | 6.0                            | --                          | 112TILL          | TILL Silty                           |
| A08 3               | 26.5                         | --                      | 0.0                            | 1.5                         | 110SDMH          | MUCK                                 |
|                     |                              |                         | 1.5                            | 5.0                         | 112SRFD          | SAND Coarse, medium                  |
|                     |                              |                         | 5.0                            | 13.0                        | 112SRFD          | SAND Medium to fine                  |
|                     |                              |                         | 13.0                           | 26.4                        | 112SRFD          | SAND Sand, fine, silty; some pebbles |
|                     |                              |                         | 26.4                           | --                          | BEDROCK          | ROCK --                              |
| A08 4               | 4.0                          | --                      | 0.0                            | 4.0                         | 110ALVM          | GRVL Sandy                           |
|                     |                              |                         | 4.0                            | --                          | 110ALVM          | GRVL Sandy                           |
| A08 2               | --                           | 145.0                   | --                             | 2.0                         | --               | BEDROCK ROCK --                      |
| A08 3               | --                           | 130.0                   | --                             | 20.0                        | --               | BEDROCK ROCK --                      |
| A08 4               | --                           | 280.0                   | --                             | 165.0                       | --               | BEDROCK ROCK --                      |
| A08 5               | --                           | 100.0                   | --                             | 20.0                        | --               | BEDROCK ROCK --                      |
| A08 11              | --                           | 178.0                   | --                             | 100.0                       | --               | BEDROCK ROCK --                      |
| A08 12              | --                           | 400.0                   | --                             | 0.0                         | 345.0            | 110SDMH                              |
|                     |                              |                         | 345.0                          | --                          | BEDROCK          | ROCK                                 |
| A08 13              | --                           | 264.0                   | --                             | 0.0                         | 23.0             | 110SDMH                              |
|                     |                              |                         | 23.0                           | --                          | BEDROCK          | ROCK                                 |
| A08 14              | --                           | 300.0                   | --                             | 0.0                         | 20.0             | 112TILL                              |
|                     |                              |                         | 20.0                           | --                          | BEDROCK          | ROCK                                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Litho-logic code | Description of material |
|---------------------|------------------------------|-------------------------|-----------------------------|--------------------------------|-----------------------|------------------|-------------------------|
| Hillsborough County |                              |                         |                             |                                |                       |                  |                         |
| Antrim--Continued   |                              |                         |                             |                                |                       |                  |                         |
| A08 15              | --                           | 200.0                   | --                          | 0.0                            | 20.0                  | 110SDMH          | SAND                    |
|                     |                              |                         |                             | 20.0                           | --                    | BEDROCK          | ROCK                    |
| A08 16              | --                           | 384.0                   | --                          | 0.0                            | 35.0                  | 112TILL          | TILL                    |
|                     |                              |                         |                             | 35.0                           | --                    | BEDROCK          | ROCK                    |
| A08 17              | --                           | 200.0                   | --                          | 0.0                            | --                    | 110SDMH          | SAND                    |
|                     |                              |                         |                             | --                             | --                    | 112TILL          | TILL                    |
|                     |                              |                         |                             | 17.0                           | --                    | BEDROCK          | ROCK                    |
| A08 18              | --                           | 100.0                   | --                          | 0.0                            | --                    | 110SDMH          | SDGL                    |
|                     |                              |                         |                             | --                             | --                    | 112TILL          | TILL                    |
|                     |                              |                         |                             | 30.0                           | --                    | BEDROCK          | ROCK                    |
| A08 19              | --                           | 325.0                   | --                          | 0.0                            | 20.0                  | 110SDMH          | SAND                    |
|                     |                              |                         |                             | 20.0                           | 98.0                  | 112TILL          | TILL                    |
|                     |                              |                         |                             | 98.0                           | --                    | BEDROCK          | ROCK                    |
| A08 20              | --                           | 160.0                   | --                          | 0.0                            | 110.0                 | 110SDMH          | SAND                    |
|                     |                              |                         |                             | 110.0                          | 150.0                 | 110SDMH          | CLAY                    |
|                     |                              |                         |                             | 150.0                          | --                    | 110SDMH          | SDGL                    |
| A08 21              | --                           | 171.0                   | --                          | 0.0                            | 106.0                 | 110SDMH          | SAND                    |
|                     |                              |                         |                             | 106.0                          | 158.0                 | 110SDMH          | CLAY                    |
|                     |                              |                         |                             | 158.0                          | --                    | 110SDMH          | SDGL                    |
| A08 22              | --                           | 125.0                   | --                          | 0.0                            | 40.0                  | 110SDMH          | SDGL                    |
|                     |                              |                         |                             | 40.0                           | --                    | BEDROCK          | ROCK                    |
| A08 23              | --                           | 172.0                   | --                          | 37.0                           | --                    | BEDROCK          | ROCK                    |
| A08 24              | --                           | 200.0                   | --                          | 0.0                            | 4.0                   | 110SDMH          | SAND                    |
|                     |                              |                         |                             | 4.0                            | --                    | BEDROCK          | ROCK                    |
| A08 25              | --                           | 360.0                   | --                          | 0.0                            | 11.0                  | 110SDMH          | SAND                    |
|                     |                              |                         |                             | 11.0                           | --                    | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|-----------------|-------------------------|
| AOW 26            | --                   | 360.0                | --                      | 0.0                            | 30.0         | 110SDMN SDGL    |                         |
|                   |                      |                      |                         | 30.0                           | --           | BEDROCK         | ROCK                    |
| AOW 27            | --                   | 325.0                | --                      | 0.0                            | 6.0          | 112TILL         | TILL                    |
|                   |                      |                      |                         | 6.0                            | --           | BEDROCK         | ROCK                    |
| AOW 28            | --                   | 415.0                | --                      | 0.0                            | 5.0          | 110SDMN SDGL    |                         |
|                   |                      |                      |                         | 5.0                            | --           | BEDROCK         | ROCK                    |
| AOW 29            | --                   | 340.0                | --                      | 0.0                            | --           | 110SDMN         | CLAY                    |
|                   |                      |                      |                         | --                             | --           | 110SDMN         | SGVC                    |
|                   |                      |                      |                         | --                             | --           | 110SDMN         | SDGL                    |
|                   |                      |                      |                         | 232.0                          | --           | BEDROCK         | ROCK                    |
| AOW 30            | --                   | 625.0                | --                      | 0.0                            | 80.0         | 110SDMN         | SAND                    |
|                   |                      |                      |                         | 80.0                           | --           | BEDROCK         | ROCK                    |
| AOW 31            | --                   | 325.0                | --                      | 0.0                            | --           | 110SDMN         | SDGL                    |
|                   |                      |                      |                         | 40.0                           | --           | BEDROCK         | ROCK                    |
| AOW 32            | --                   | 240.0                | --                      | 0.0                            | 66.0         | 110SDMN         | SDGL                    |
|                   |                      |                      |                         | 66.0                           | --           | BEDROCK         | ROCK                    |
| AOW 33            | --                   | 170.0                | --                      | 0.0                            | 35.0         | 112TILL         | TILL                    |
|                   |                      |                      |                         | 35.0                           | --           | BEDROCK         | ROCK                    |
| AOW 34            | --                   | 180.0                | --                      | 0.0                            | 35.0         | 112TILL         | TILL                    |
|                   |                      |                      |                         | 35.0                           | --           | BEDROCK         | ROCK                    |
| AOW 35            | --                   | 305.0                | --                      | 0.0                            | 38.0         | 110SDMN         | SDGL                    |
|                   |                      |                      |                         | 38.0                           | --           | BEDROCK         | ROCK                    |
| AOW 36            | --                   | 340.0                | --                      | 0.0                            | 40.0         | 110SDMN         | SAND                    |
|                   |                      |                      |                         | 40.0                           | --           | 112TILL         | TILL                    |
|                   |                      |                      |                         | 125.0                          | --           | BEDROCK         | ROCK                    |
| AOW 37            | --                   | 310.0                | --                      | 0.0                            | 55.0         | 112TILL         | TILL                    |
|                   |                      |                      |                         | 55.0                           | --           | BEDROCK         | ROCK                    |

Hillsborough County

Antrim--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| AOW 38            | --                   | 365.0                | --                      | 0.0                         | 3.0                            | 112TILL      | TILL            |                         |
|                   |                      |                      |                         | 3.0                         | --                             | BEDROCK      | ROCK            |                         |
| AOW 39            | --                   | 300.0                | --                      | 0.0                         | 39.0                           | 110SDMN      | CLAY            |                         |
|                   |                      |                      |                         | 39.0                        | --                             | BEDROCK      | ROCK            |                         |
| AOW 40            | --                   | 300.0                | --                      | 0.0                         | 3.0                            | 110SDMN      | CLAY            |                         |
|                   |                      |                      |                         | 3.0                         | --                             | BEDROCK      | ROCK            |                         |
| AOW 41            | --                   | 600.0                | --                      | 0.0                         | 84.0                           | 112TILL      | TILL            |                         |
|                   |                      |                      |                         | 84.0                        | --                             | BEDROCK      | ROCK            |                         |
| AOW 42            | --                   | 160.0                | --                      | 19.0                        | --                             | BEDROCK      | ROCK            |                         |
| AOW 43            | --                   | 185.0                | --                      | 0.0                         | --                             | 110SDMN      | SDGL            |                         |
|                   |                      |                      |                         | --                          | --                             | 112TILL      | TILL            |                         |
|                   |                      |                      |                         | --                          | --                             | 110SDMN      | CLAY            |                         |
|                   |                      |                      |                         | 80.0                        | --                             | BEDROCK      | ROCK            |                         |
| AOW 44            | --                   | 240.0                | --                      | 0.0                         | 25.0                           | 110SDMN      | SAND            |                         |
|                   |                      |                      |                         | 25.0                        | 148.0                          | 110SDMN      | CLAY            |                         |
|                   |                      |                      |                         | 148.0                       | --                             | BEDROCK      | ROCK            |                         |
| AOW 45            | --                   | 805.0                | --                      | 0.0                         | 25.0                           | 110SDMN      | SDGL            |                         |
|                   |                      |                      |                         | 25.0                        | --                             | 112TILL      | TILL            |                         |
|                   |                      |                      |                         | 110.0                       | --                             | BEDROCK      | ROCK            |                         |
| AOW 46            | --                   | 465.0                | --                      | 0.0                         | 8.0                            | 110SDMN      | SDGL            |                         |
|                   |                      |                      |                         | 8.0                         | --                             | 112TILL      | TILL            |                         |
|                   |                      |                      |                         | 39.0                        | --                             | BEDROCK      | ROCK            |                         |
| AOW 47            | --                   | 505.0                | --                      | 0.0                         | 30.0                           | 110SDMN      | SAND            |                         |
|                   |                      |                      |                         | 30.0                        | --                             | BEDROCK      | ROCK            |                         |
| AOW 48            | --                   | 300.0                | --                      | 0.0                         | --                             | 110SDMN      | SDGL            |                         |
|                   |                      |                      |                         | --                          | --                             | 110SDMN      | CLAY            |                         |
|                   |                      |                      |                         | 78.0                        | --                             | BEDROCK      | ROCK            |                         |

Hillsborough County

Antrim--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Litho-logic code   | Description of material                     |
|---------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------------|--|---|
| Hillsborough County |                      |                      |                             |                                |                       |  |   |
| Antrim--Continued   |                      |                      |                             |                                |                       |  |   |
| AOW 49              | --                   | 415.0                | --                          | 0.0                            | --                    | 112TILL<br>110SDMN<br>BEDROCK                                  | TILL<br>SGL<br>ROCK                         |
| AOW 50              | --                   | 260.0                | --                          | 0.0                            | --                    | 110SDMN<br>110SDMN<br>110SDMN<br>BEDROCK                       | OTHR<br>SGL<br>CLAY<br>ROCK                 |
| AOW 51              | --                   | 300.0                | --                          | 0.0                            | --                    | 112TILL<br>110SDMN<br>110SDMN<br>110SDMN<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>SGL<br>CLAY<br>CLAY<br>ROCK |
| AOW 52              | --                   | 600.0                | --                          | 0.0                            | 10.0                  | 110SDMN<br>BEDROCK   | SAND<br>ROCK                                |
| AOW 53              | --                   | 400.0                | --                          | 0.0                            | --                    | 110SDMN<br>112TILL<br>112TILL<br>112TILL<br>BEDROCK            | SGL<br>TILL<br>TILL<br>TILL<br>ROCK         |
| AOW 54              | --                   | 460.0                | --                          | 0.0                            | 100.0                 | 110SDMN<br>BEDROCK   | CLAY<br>ROCK                                |
| AOW 55              | --                   | 300.0                | --                          | 0.0                            | 150.0                 | 110SDMN<br>BEDROCK   | SAND<br>ROCK                                |
| AOW 56              | --                   | 300.0                | --                          | 0.0                            | 85.0<br>138.0         | 110SDMN<br>110SDMN<br>BEDROCK                                  | SAND<br>CLAY<br>ROCK                        |
| AOW 58              | --                   | 132.0                | --                          | 0.0                            | 20.0                  | 110SDMN<br>BEDROCK   | SGL<br>ROCK                                 |
| AOW 59              | --                   | 300.0                | --                          | 0.0                            | 85.0                  | 110SDMN<br>BEDROCK   | SAND<br>ROCK                                |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Litho-logic code   | Description of material                              |
|---------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------------|--|--|
| Hillsborough County |                      |                      |                             |                                |                       |  |  |
| Antrim--Continued   |                      |                      |                             |                                |                       |  |  |
| AOW 60              | --                   | 177.0                | --                          | 0.0                            | 78.0                  | 112TILL<br>BEDROCK   | TILL<br>Sand, clay, hardpan<br>ROCK                  |
| AOW 61              | --                   | 200.0                | --                          | 0.0                            | --                    | 110SDMN<br>112TILL<br>110SDMN<br>110SDMN<br>110SDMN<br>BEDROCK | SAND<br>TILL<br>CLAY<br>SDGL<br>CLAY<br>ROCK         |
| AOW 62              | --                   | 520.0                | --                          | 0.0                            | --                    | 110SDMN<br>112TILL<br>BEDROCK                                  | SAND<br>TILL<br>ROCK                                 |
| AOW 63              | --                   | 140.0                | --                          | 0.0                            | 10.0                  | 110SDMN<br>BEDROCK   | SDGL<br>ROCK   |
| AOW 64              | --                   | 138.0                | --                          | 0.0                            | 85.0                  | 110SDMN<br>BEDROCK   | SDGL<br>ROCK   |
| AOW 65              | --                   | 440.0                | --                          | 0.0                            | --                    | 110SDMN<br>112TILL<br>BEDROCK                                  | SAND<br>TILL<br>ROCK                                 |
| AOW 66              | --                   | 300.0                | --                          | 0.0                            | 110.0                 | 110SDMN<br>BEDROCK   | SDGL<br>ROCK   |
| Bennington          |                      |                      |                             |                                |                       |  |  |
| BNB 1               | 12.5                 | --                   | 12.5                        | 0.0                            | 3.5                   | 110SDMN<br>112SRFD<br>112SRFD                                  | MUD<br>SAND<br>SAND<br>Coarse sand, gravel, boulders |
| BNB 2               | 11.0                 | --                   | --                          | 0.0                            | 2.0                   | 110SDMN<br>112TILL<br>112TILL                                  | SAND<br>Silt<br>TILL<br>Sandy<br>Silty               |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet)                    | Aquifer code                       | Lithologic code  | Description of material   |
|-----------------------|----------------------|----------------------|-----------------------------|---|------------------------------------|--|---|
| Hillsborough County   |                      |                      |                             |   |                                    |  |   |
| Bennington--Continued |                      |                      |                             |   |                                    |  |   |
| BNB 3                 | 66.4                 | --                   | --                          | 0.0<br>1.0<br>10.0<br>42.8                        | 1.0<br>10.0<br>42.8                | 110SOIL SAND<br>112SRFD SAND<br>112TILL SAND<br>112TILL SAND                                 | SOIL<br>Gravelly<br>Compact, gravelly, silty<br>Compact, silty  |
| BNB 4                 | 90.8                 | --                   | --                          | 0.0<br>0.5<br>11.5<br>26.0<br>26.0                | 0.5<br>11.5<br>26.0                | 110SOIL SOIL<br>112SRFD SAND<br>112SRFD SILT<br>112TILL SAND<br>112TILL SAND                 | SOIL<br>Coarse-fine, gravelly<br>Sandy, cobbles, boulders<br>Dense, coarse-fine, gravelly, silty                            |
| BNB 5                 | 93.0                 | --                   | --                          | 0.0<br>1.0<br>3.0<br>10.0<br>36.0<br>77.6         | 1.0<br>3.0<br>10.0<br>36.0<br>77.6 | 110SOIL SOIL<br>112SRFD SAND<br>112SRFD SILT<br>112TILL SAND<br>112SRFD SAND<br>BEDROCK ROCK | SOIL<br>Fine, silty<br>Silty<br>Compact, gravelly, silty<br>Coarse-fine   |
| BNB 6                 | 91.4                 | --                   | --                          | 0.0<br>1.0<br>9.2<br>15.3<br>67.8<br>67.8<br>76.4 | 1.0<br>9.2<br>15.3<br>67.8<br>76.4 | 110SOIL SOIL<br>112SRFD SAND<br>112SRFD SAND<br>112TILL SAND<br>112SRFD SAND<br>BEDROCK ROCK | SOIL<br>Fine, silty<br>Compact, gravelly<br>Compact, gravelly, silty<br>Loose, medium to fine, gravelly, silty<br>Weathered |
| BNB 7                 | 86.6                 | --                   | --                          | 0.0<br>1.2<br>23.6<br>71.5                        | 1.2<br>23.6<br>71.5                | 110SOIL SOIL<br>112SRFD SAND<br>112TILL SAND<br>BEDROCK ROCK                                 | SOIL<br>Fine, silty<br>Compact, gravelly, silty   |
| BNB 8                 | 40.0                 | --                   | --                          | 0.0<br>1.5<br>5.0<br>34.6                         | 1.5<br>5.0<br>34.6                 | 110SOIL SOIL<br>112SRFD SAND<br>112SRFD SILT<br>112TILL SAND                                 | SOIL<br>Coarse to fine, silty<br>Coarse, with sand layers<br>Dense, gravelly, silty   |
| BNB 9                 | 58.9                 | --                   | --                          | 0.0<br>1.0<br>15.6<br>19.0                        | 1.0<br>15.6<br>19.0                | 110SOIL SOIL<br>112SRFD SAND<br>112SRFD SAND<br>112SRFD SAND                                 | SOIL<br>Medium to fine<br>Compact, gravelly<br>Gravelly, silty  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet)                     | Aquifer code                                | Lithologic code  | Description of material   |
|-----------------------|----------------------|----------------------|-----------------------------|--|---|--|---|
| Hillsborough County   |                      |                      |                             |  |   |  |   |
| Bennington--Continued |                      |                      |                             |  |   |  |   |
| BNB 9--Continued      |                      |                      |                             | 19.0<br>44.3                                       | 44.3  | 112TILL SAND<br>BEDROCK ROCK   | Compact, gravelly, silty  |
| BNB 10                | 58.0                 | --                   | --                          | 0.0<br>1.5<br>9.0<br>43.0                          | 1.5<br>9.0<br>43.0                          | 110SOIL SOIL<br>112SRFD SAND<br>112TILL SAND<br>BEDROCK ROCK   | Medium to fine<br>Compact, coarse-fine, gravelly, silty   |
| BNB 11                | 64.2                 | --                   | --                          | 0.0<br>0.7<br>6.6<br>34.5<br>39.8<br>49.2          | 0.7<br>6.6<br>34.5<br>39.8<br>49.2          | 110SOIL SOIL<br>112SRFD SAND<br>112TILL SAND<br>112TILL SAND<br>BEDROCK ROCK                                 | SOIL<br>Compact, gravelly, few cobbles<br>Compact, gravelly, silty<br>Compact, medium to fine, gravelly, silty<br>Compact, coarse to fine, gravelly, silty            |
| BNB 12                | 44.0                 | --                   | --                          | 0.0<br>1.4<br>8.2<br>29.3                          | 1.4<br>8.2<br>29.3                          | 110SOIL SOIL<br>112SRFD SAND<br>112TILL SAND<br>BEDROCK ROCK   | Medium to fine<br>Compact, gravelly, silty  |
| BNB 13                | 81.0                 | --                   | --                          | 0.0<br>0.8<br>10.0<br>45.8                         | 0.8<br>10.0<br>45.8                         | 110SOIL SOIL<br>112SRFD SAND<br>112SRFD SAND<br>112SRFD SILT   | SOIL<br>Compact, medium to fine<br>Compact, medium to fine, silty<br>Compact, medium to fine  |
| BNB 14                | 88.0                 | --                   | --                          | 0.0<br>9.0<br>14.0<br>30.0<br>42.0<br>59.8<br>72.8 | 9.0<br>14.0<br>30.0<br>42.0<br>59.8<br>72.8 | 112SRFD SAND<br>112SRFD SAND<br>112TILL SAND<br>112SRFD SDST<br>112SRFD SAND<br>112TILL SAND<br>BEDROCK ROCK | Medium to fine, silty<br>Gravelly, silty<br>Compact, gravelly, silty<br>Loose<br>Compact, coarse to fine, gravelly<br>Compact, gravelly, silty, boulders<br>Weathered |
| BNB 15                | 103.9                | --                   | --                          | 0.0<br>1.0<br>19.0<br>47.7<br>84.0                 | 0.0<br>1.0<br>19.0<br>47.7<br>84.0          | 112SRFD SAND<br>112SRFD SILT<br>112TILL SAND<br>112TILL SILT   | Gravelly<br>Fine, sandy<br>Compact, gravelly, silty<br>Silty<br>Compact, fine, sandy  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code                | Description of material        |             |
|-----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--------------------------------|--------------------------------|-------------|
| Hillsborough County   |                      |                      |                             |                                |              |                                |                                |             |
| Bennington--Continued |                      |                      |                             |                                |              |                                |                                |             |
| BNB 15--Continued     |                      |                      |                             |                                |              |                                |                                |             |
|                       |                      | 84.0                 | 94.0                        | 112TILL                        | SAND         | Compact, coarse to fine, silty |                                |             |
|                       |                      |                      |                             |                                | BEDROCK      | ROCK                           |                                |             |
| BNB 16                | 88.5                 | --                   | --                          | 42.5                           | 112SRFD      | SAND                           | Medium to fine                 |             |
|                       |                      | 42.5                 | 64.0                        | 112TILL                        | SAND         | Compact, gravelly, silty       |                                |             |
|                       |                      |                      |                             |                                | 112TILL      | SILT                           | Compact, medium to fine        |             |
| BNB 17                | 87.0                 | --                   | --                          | 0.5                            | 110SOIL      | SOIL                           |                                |             |
|                       |                      |                      |                             | 14.6                           | 112SRFD      | SAND                           | Coarse to fine                 |             |
|                       |                      |                      |                             | 20.0                           | 112SRFD      | SILT                           | Sandy, occasional gravel       |             |
|                       |                      |                      |                             | 33.0                           | 112SRFD      | SAND                           | Gravelly, silty                |             |
|                       |                      |                      |                             | 58.0                           | 112SRFD      | SAND                           | Compact, medium to fine, silty |             |
|                       |                      |                      |                             | 58.0                           | 112TILL      | SAND                           | Compact, gravelly, silty       |             |
|                       |                      |                      |                             | 80.0                           | 112TILL      | SAND                           | Compact, medium to fine, silty |             |
|                       |                      |                      |                             | 85.4                           | 112TILL      | SILT                           | Compact, medium to fine        |             |
| BNB 18                | 69.0                 | 15.0                 | --                          | 17.0                           | 110SDMN      | SDGL                           |                                |             |
|                       |                      |                      |                             | 17.0                           | 112SRFD      | STCL                           |                                |             |
|                       |                      |                      |                             | 19.0                           | 112SRFD      | CLAY                           |                                |             |
|                       |                      |                      |                             | 62.0                           | --           | 112TILL                        | TILL                           |             |
| BNW 1                 | --                   | 91.0                 | --                          | 10.0                           | 0.0          | BEDROCK                        | ROCK                           |             |
| BNW 3                 | --                   | 316.0                | --                          | 90.0                           | --           | BEDROCK                        | ROCK                           |             |
| BNW 4                 | --                   | 60.0                 | --                          | 25.0                           | --           | BEDROCK                        | ROCK                           |             |
| BNW 5                 | --                   | 352.0                | --                          | 42.0                           | --           | BEDROCK                        | ROCK                           |             |
| BNW 7                 | 46.5                 | 43.0                 | --                          | 0.9                            | 110SOIL      | SOIL                           |                                |             |
|                       |                      |                      |                             | 0.9                            | 112SRFD      | SAND                           | Fine, little silt              |             |
|                       |                      |                      |                             | 19.0                           | 112SRFD      | SAND                           | Medium, trace gravel           |             |
|                       |                      |                      |                             | 40.0                           | --           | 112SRFD                        | SAND                           | Fine, silty |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |   |
|-----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|---|
| Hillsborough County   |                      |                      |                             |                                |              |                 |                         |   |
| Bennington--Continued |                      |                      |                             |                                |              |                 |                         |   |
| BNW 8                 | 51.5                 | 51.0                 | --                          | 0.0                            | 1.2          | 110SOIL         | SOIL                    |   |
|                       |                      |                      |                             | 1.2                            | 8.8          | 112SRFD         | SDGL                    | F-M sand, layers coarse gravel, cobbles |
|                       |                      |                      |                             | 8.8                            | 40.0         | 112SRFD         | SDGL                    | M-C sand, layers coarse gravel, cobbles |
|                       |                      |                      |                             | 40.0                           | --           | 112SRFD         | SDGL                    | F-M sand, layers coarse gravel, cobbles |
| BNW 9                 | 16.5                 | 12.0                 | --                          | 0.0                            | 0.9          | 110SOIL         | SOIL                    |   |
|                       |                      |                      |                             | 0.9                            | 7.9          | 112SRFD         | GRVL                    | Coarse, sandy, cobbles, trace silt      |
|                       |                      |                      |                             | 7.9                            | --           | 112SRFD         | SDGL                    | Coarse                                  |
| BNW 10                | 108.0                | 108.0                | --                          | 0.0                            | 8.0          | 111SWMP         | PEAT                    |   |
|                       |                      |                      |                             | 8.0                            | 16.0         | 112SRFD         | SAND                    | Medium                                  |
|                       |                      |                      |                             | 16.0                           | 24.0         | 112SRFD         | GRVL                    | Medium                                  |
|                       |                      |                      |                             | 24.0                           | 40.0         | 112SRFD         | SAND                    | Coarse                                  |
|                       |                      |                      |                             | 40.0                           | 71.0         | 112SRFD         | SAND                    | Fine                                    |
|                       |                      |                      |                             | 71.0                           | 108.0        | 112SRFD         | GRVL                    | Coarse                                  |
|                       |                      |                      |                             | 108.0                          | --           | 112SRFD         | SAND                    | Fine                                    |
| BNW 11                | --                   | 200.0                | --                          | 0.0                            | 6.0          | 110SDMN         | ROCK                    |   |
|                       |                      |                      |                             | 6.0                            | --           | BEDROCK         | ROCK                    |   |
| BNW 13                | --                   | 280.0                | --                          | 140.0                          | --           | BEDROCK         | ROCK                    |   |
| BNW 14                | --                   | 160.0                | --                          | 10.0                           | --           | BEDROCK         | ROCK                    |   |
| BNW 15                | --                   | 198.0                | --                          | 65.0                           | --           | BEDROCK         | ROCK                    |   |
| BNW 16                | --                   | 555.0                | --                          | 0.0                            | 10.0         | 112TILL         | TILL                    |   |
|                       |                      |                      |                             | 10.0                           | --           | BEDROCK         | ROCK                    |   |
| BNW 17                | --                   | 108.0                | --                          | 0.0                            | 8.0          | 110SDMN         | CLAY                    |   |
|                       |                      |                      |                             | 8.0                            | --           | BEDROCK         | ROCK                    |   |
| BNW 18                | --                   | 610.0                | --                          | 0.0                            | 15.0         | 110SDMN         | SAND                    |   |
|                       |                      |                      |                             | 15.0                           | 85.0         | 112TILL         | TILL                    |   |
|                       |                      |                      |                             | 85.0                           | 101.0        | 110SDMN         | CLAY                    |   |
|                       |                      |                      |                             | 101.0                          | --           | BEDROCK         | ROCK                    |   |

Appendix B...Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Hillsborough County

Bennington--Continued

|        |    |       |    |       |       |              |  |
|--------|----|-------|----|-------|-------|--------------|--|
| BNW 19 | -- | 750.0 | -- | 0.0   | 15.0  | 110SDMN SAND |  |
|        |    |       |    | 15.0  | 29.0  | 112TILL TILL |  |
|        |    |       |    | 29.0  | --    | BEDROCK ROCK |  |
| BNW 20 | -- | 160.0 | -- | 0.0   | 6.0   | 110SDMN CLAY |  |
|        |    |       |    | 6.0   | --    | BEDROCK ROCK |  |
| BNW 21 | -- | 225.0 | -- | 0.0   | 25.0  | 110SDMN SDGL |  |
|        |    |       |    | 25.0  | --    | BEDROCK ROCK |  |
| BNW 22 | -- | 500.0 | -- | 30.0  | --    | BEDROCK ROCK |  |
| BNW 23 | -- | 243.0 | -- | 0.0   | 100.0 | 110SDMN SAND |  |
|        |    |       |    | 100.0 | --    | BEDROCK ROCK |  |
| BNW 24 | -- | 340.0 | -- | 0.0   | 30.0  | 110SDMN SDGL |  |
|        |    |       |    | 30.0  | --    | BEDROCK ROCK |  |
| BNW 25 | -- | 320.0 | -- | 0.0   | 30.0  | 110SDMN SDGL |  |
|        |    |       |    | 30.0  | --    | BEDROCK ROCK |  |
| BNW 26 | -- | 340.0 | -- | 0.0   | 35.0  | 110SDMN SAND |  |
|        |    |       |    | 35.0  | --    | BEDROCK ROCK |  |
| BNW 27 | -- | 240.0 | -- | 0.0   | 50.0  | 110SDMN SAND |  |
|        |    |       |    | 50.0  | 90.0  | 110SDMN SDGL |  |
|        |    |       |    | 90.0  | --    | BEDROCK ROCK |  |
| BNW 28 | -- | 160.0 | -- | 0.0   | --    | 112TILL TILL |  |
|        |    |       |    | --    | --    | 110SDMN CLAY |  |
|        |    |       |    | 101.0 | --    | BEDROCK ROCK |  |
| BNW 29 | -- | 220.0 | -- | 0.0   | --    | 112TILL TILL |  |
|        |    |       |    | --    | --    | 110SDMN CLAY |  |
|        |    |       |    | 105.0 | --    | BEDROCK ROCK |  |

Appendix B...Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Hillsborough County

Bennington--Continued

|        |    |       |    |       |       |              |  |
|--------|----|-------|----|-------|-------|--------------|--|
| BNW 30 | -- | 475.0 | -- | 0.0   | 50.0  | 110SDMN SAND |  |
|        |    |       |    | 50.0  | 68.0  | 112TILL TILL |  |
|        |    |       |    | 68.0  | --    | BEDROCK ROCK |  |
| BNW 31 | -- | 700.0 | -- | 0.0   | 72.0  | 110SDMN CLAY |  |
|        |    |       |    | 72.0  | --    | BEDROCK ROCK |  |
| BNW 32 | -- | 400.0 | -- | 0.0   | 22.0  | 110SDMN SAND |  |
|        |    |       |    | 22.0  | 28.0  | 110SDMN SDGL |  |
|        |    |       |    | 28.0  | --    | BEDROCK ROCK |  |
| BNW 33 | -- | 186.0 | -- | 0.0   | 28.0  | 110SDMN SDGL |  |
|        |    |       |    | 28.0  | --    | BEDROCK ROCK |  |
| BNW 34 | -- | 345.0 | -- | 0.0   | 70.0  | 110SDMN CLAY |  |
|        |    |       |    | 70.0  | --    | BEDROCK ROCK |  |
| BNW 35 | -- | 305.0 | -- | 0.0   | 50.0  | 110SDMN SDGL |  |
|        |    |       |    | 50.0  | 112.0 | 112TILL TILL |  |
|        |    |       |    | 112.0 | --    | BEDROCK ROCK |  |
| BNW 36 | -- | 303.0 | -- | 0.0   | 55.0  | 110SDMN SDGL |  |
|        |    |       |    | 55.0  | --    | BEDROCK ROCK |  |
| BNW 37 | -- | 340.0 | -- | 0.0   | 12.0  | 110SDMN SDGL |  |
|        |    |       |    | 12.0  | --    | BEDROCK ROCK |  |
| BNW 38 | -- | 625.0 | -- | 0.0   | 20.0  | 110SDMN SAND |  |
|        |    |       |    | 20.0  | --    | BEDROCK ROCK |  |
| BNW 39 | -- | 300.0 | -- | 0.0   | 90.0  | 110SDMN SAND |  |
|        |    |       |    | 90.0  | --    | BEDROCK ROCK |  |
| BNW 40 | -- | 178.0 | -- | 0.0   | 20.0  | 112TILL TILL |  |
|        |    |       |    | 20.0  | --    | BEDROCK ROCK |  |
| BNW 41 | -- | 405.0 | -- | 0.0   | 60.0  | 110SDMN SAND |  |
|        |    |       |    | 60.0  | --    | BEDROCK ROCK |  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code    | Description of material                                  |
|-----------------------|------------------------------|-------------------------|--------------------------------|---------------------|--|
| Hillsborough County   |                              |                         |                                |                     |  |
| Bennington--Continued |                              |                         |                                |                     |  |
| BNW 43                | --                           | 211.0                   | --                             | 0.0<br>70.0         | 110SDMN SDGL<br>BEDROCK ROCK                             |
| BNW 44                | --                           | 90.0                    | --                             | 0.0<br>--<br>--     | 110SDMN CLAY<br>110SDMN SAND<br>110SDMN SDGL             |
| BNW 45                | --                           | 60.0                    | --                             | 0.0                 | 110SDMN SDGL   |
| BNW 46                | --                           | 300.0                   | --                             | 0.0<br>95.0         | 110SDMN SDGL<br>BEDROCK ROCK                             |
| Deering               |                              |                         |                                |                     |  |
| DEB 1                 | 74.0                         | --                      | --                             | 0.0<br>18.0<br>68.0 | 112SRFD SAND Coarse<br>112SRFD CLAY Gray<br>112TILL TILL |
| DEW 2                 | --                           | 280.0                   | --                             | 0.0<br>215.0        | 110SDMN<br>BEDROCK ROCK                                  |
| DEW 4                 | --                           | 405.0                   | --                             | 0.0<br>45.0         | 110SDMN<br>BEDROCK ROCK                                  |
| DEW 5                 | --                           | 295.0                   | --                             | 0.0<br>50.0         | 110SDMN<br>BEDROCK ROCK                                  |
| DEW 6                 | --                           | 600.0                   | --                             | 0.0<br>8.0          | 110SDMN<br>BEDROCK ROCK                                  |
| DEW 7                 | --                           | 405.0                   | --                             | 0.0<br>213.0        | 110SDMN<br>BEDROCK ROCK                                  |
| DEW 8                 | --                           | 355.0                   | --                             | 0.0                 |  |
| DEW 9                 | --                           | 865.0                   | --                             | 0.0<br>6.0          | 110SDMN<br>BEDROCK ROCK                                  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code             | Description of material   |
|---------------------|------------------------------|-------------------------|--------------------------------|------------------------------|---|
| Hillsborough County |                              |                         |                                |                              |   |
| Deering--Continued  |                              |                         |                                |                              |   |
| DEW 12              | --                           | 303.0                   | --                             | 0.0<br>40.0<br>55.0<br>205.0 | 110SDMN SAND<br>110SDMN SDGL<br>112TILL TILL<br>112TILL TILL<br>BEDROCK ROCK<br>Clay, hardpan |
| DEW 18              | --                           | 120.0                   | --                             | 0.0                          | 110SDMN SDGL  |
| DEW 19              | --                           | 265.0                   | --                             | 0.0                          | 110SDMN SAND<br>112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK                                  |
| DEW 20              | --                           | 240.0                   | --                             | 71.0                         | BEDROCK ROCK  |
| DEW 24              | --                           | 345.0                   | --                             | 0.0<br>88.0                  | 110SDMN SDGL<br>BEDROCK ROCK  |
| DEW 26              | --                           | 158.0                   | --                             | 0.0<br>10.0                  | 112TILL TILL<br>BEDROCK ROCK  |
| DEW 30              | --                           | 325.0                   | --                             | 0.0<br>81.0                  | 110SDMN SAND<br>BEDROCK ROCK  |
| DEW 33              | --                           | 380.0                   | --                             | 0.0<br>95.0                  | 112TILL TILL<br>BEDROCK ROCK  |
| DEW 34              | --                           | 310.0                   | --                             | 0.0                          | 112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK  |
| DEW 35              | --                           | 385.0                   | --                             | 0.0<br>66.0                  | 112TILL TILL<br>BEDROCK ROCK  |
| DEW 38              | --                           | 220.0                   | --                             | 0.0                          | 110SDMN SDGL<br>112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK                                  |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------|-------------------------|
| DEW 39            | --                   | 130.0                | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                      |                             | 90.0                           | BECK            | ROCK                    |
| DEW 40            | --                   | 430.0                | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                      |                             | --                             | 110SDMN         | CLAY                    |
|                   |                      |                      |                             | 90.0                           | BECK            | ROCK                    |
| DEW 41            | --                   | 190.0                | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                      |                             | 42.0                           | BECK            | ROCK                    |
| DEW 47            | --                   | 193.0                | --                          | 60.0                           | BECK            | ROCK                    |
| DEW 49            | --                   | 400.0                | --                          | 0.0                            | 110SDMN         | SAND                    |
|                   |                      |                      |                             | --                             | 110SDMN         | CLAY                    |
|                   |                      |                      |                             | 12.0                           | BECK            | ROCK                    |
| DEW 51            | --                   | 220.0                | --                          | 0.0                            | 110SDMN         | S06L                    |
|                   |                      |                      |                             | --                             | 112TILL         | TILL                    |
|                   |                      |                      |                             | --                             | 110SDMN         | CLAY                    |
|                   |                      |                      |                             | 30.0                           | BECK            | ROCK                    |
| DEW 57            | --                   | 253.0                | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                      |                             | --                             | Gravel,         | hardpan                 |
|                   |                      |                      |                             | --                             | 112TILL         | TILL                    |
|                   |                      |                      |                             | 60.0                           | BECK            | ROCK                    |
| DEW 59            | 93.0                 | 15.0                 | --                          | 0.0                            | 110SDMN         | SAND                    |
|                   |                      |                      |                             | 16.0                           | 112SRFD         | SAND                    |
|                   |                      |                      |                             | 58.0                           | 112SRFD         | CLAY                    |
|                   |                      |                      |                             | 93.0                           | 112TILL         | TILL                    |
| DEW 60            | 69.0                 | 40.0                 | --                          | 0.0                            | 110SDMN         | SAND                    |
|                   |                      |                      |                             | 15.0                           | 112SRFD         | CLAY                    |
|                   |                      |                      |                             | 34.0                           | 112SRFD         | SAND                    |
|                   |                      |                      |                             | 52.0                           | 112TILL         | TILL                    |

B-40

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------|-------------------------|
| DEW 62            | --                   | 325.0                | --                          | 0.0                            | 110SDMN         | SAND                    |
|                   |                      |                      |                             | --                             | 112TILL         | TILL                    |
|                   |                      |                      |                             | --                             | 110SDMN         | CLAY                    |
|                   |                      |                      |                             | 235.0                          | BECK            | ROCK                    |
| GSB 1             | 21.0                 | --                   | --                          | 0.0                            | 110SDMN         | SAND                    |
|                   |                      |                      |                             | 7.7                            | 112SRFD         | SAND                    |
|                   |                      |                      |                             | 11.0                           | 112SRFD         | SAND                    |
|                   |                      |                      |                             | --                             | 112TILL         | TILL                    |
| GSB 2             | 20.0                 | --                   | --                          | 0.0                            | 112TILL         | TILL                    |
| GSW 5             | --                   | 150.0                | --                          | 110.0                          | BECK            | ROCK                    |
| GSW 6             | --                   | 180.0                | --                          | 55.0                           | BECK            | ROCK                    |
| GSW 7             | --                   | 307.0                | --                          | 32.0                           | BECK            | ROCK                    |
| GSW 8             | --                   | 185.0                | --                          | 70.0                           | BECK            | ROCK                    |
| GSW 11            | --                   | 170.0                | --                          | 135.0                          | BECK            | ROCK                    |
| GSW 12            | --                   | 209.0                | --                          | 11.0                           | BECK            | ROCK                    |
| GSW 13            | --                   | 100.0                | --                          | 60.0                           | BECK            | ROCK                    |
| GSW 14            | --                   | 195.0                | --                          | 123.0                          | BECK            | ROCK                    |
| GSW 15            | --                   | 147.0                | --                          | 77.0                           | BECK            | ROCK                    |
| GSW 18            | --                   | 256.0                | --                          | 0.0                            | BECK            | ROCK                    |
| GSW 19            | --                   | 130.0                | --                          | 7.0                            | BECK            | ROCK                    |
| GSW 20            | --                   | 95.0                 | --                          | 75.0                           | BECK            | ROCK                    |

B-41

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom (feet) | Litho-logic code | Description of material             |
|-----------------------|----------------------|----------------------|-------------------------|---------------------|------------------------|------------------|-------------------------------------|
|                       |                      |                      |                         |                     |                        |                  |                                     |
| Hillsborough County   |                      |                      |                         |                     |                        |                  |                                     |
| Greenfield--Continued |                      |                      |                         |                     |                        |                  |                                     |
| GSM 21                | --                   | 192.0                | --                      | 95.0                | --                     | BEDROCK          | ROCK                                |
| GSM 22                | --                   | 247.0                | --                      | 100.0               | --                     | BEDROCK          | ROCK                                |
| GSM 25                | --                   | 490.0                | --                      | 0.0                 | 45.0                   | 110SDMN          | ROCK                                |
| GSM 26                | --                   | 325.0                | --                      | 0.0                 | 60.0                   | 110SDMN          | ROCK                                |
| GSM 28                | --                   | 285.0                | --                      | 0.0                 | 95.0                   | 110SDMN          | ROCK                                |
| GSM 30                | 44.0                 | 30.0                 | --                      | 0.0                 | --                     | 112SRFD          | GRVL                                |
| GSM 31                | 81.0                 | 53.0                 | --                      | 0.0                 | 11.0                   | 112SRFD          | SAND Medium                         |
|                       |                      |                      |                         | 11.0                | 45.0                   | 112SRFD          | SAND Fine, with clay beds           |
|                       |                      |                      |                         | 45.0                | 53.0                   | 112SRFD          | SDGL With clay beds                 |
|                       |                      |                      |                         | 53.0                | 70.0                   | 112SRFD          | SDCL Interbedded with gravel layers |
|                       |                      |                      |                         | 70.0                | --                     | 112TILL          | TILL                                |
| GSM 32                | 130.0                | 100.0                | --                      | 0.0                 | 40.0                   | 112SRFD          | SAND Medium to coarse               |
|                       |                      |                      |                         | 40.0                | 88.0                   | 112SRFD          | SAND Fine to coarse                 |
|                       |                      |                      |                         | 88.0                | 120.0                  | 112SRFD          | SAND Fine to coarse                 |
|                       |                      |                      |                         | 120.0               | --                     | 112SRFD          | SAND Fine                           |
| GSM 33                | --                   | 440.0                | --                      | 0.0                 | 0.0                    | 110SDMN          | CLAY                                |
|                       |                      |                      |                         | 265.0               | --                     | BEDROCK          | ROCK                                |
| GSM 34                | --                   | 160.0                | --                      | 40.0                | --                     | BEDROCK          | ROCK                                |
| GSM 36                | --                   | 140.0                | --                      | 0.0                 | 0.0                    | 110SDMN          | SDGL                                |
|                       |                      |                      |                         | 26.0                | --                     | BEDROCK          | ROCK                                |
| GSM 37                | --                   | 405.0                | --                      | 0.0                 | --                     | 110SDMN          | SDGL                                |
|                       |                      |                      |                         | --                  | --                     | 112TILL          | TILL                                |
|                       |                      |                      |                         | 69.0                | --                     | BEDROCK          | ROCK                                |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom (feet) | Litho-logic code | Description of material |
|-----------------------|----------------------|----------------------|-------------------------|---------------------|------------------------|------------------|-------------------------|
|                       |                      |                      |                         |                     |                        |                  |                         |
| Hillsborough County   |                      |                      |                         |                     |                        |                  |                         |
| Greenfield--Continued |                      |                      |                         |                     |                        |                  |                         |
| GSM 38                | --                   | 405.0                | --                      | 0.0                 | --                     | 110SDMN          | SDGL                    |
|                       |                      |                      |                         | --                  | --                     | 112TILL          | TILL                    |
|                       |                      |                      |                         | 100.0               | --                     | BEDROCK          | ROCK                    |
| GSM 39                | --                   | 350.0                | --                      | 108.0               | --                     | BEDROCK          | ROCK                    |
| GSM 41                | --                   | 184.0                | --                      | 0.0                 | 45.0                   | 110SDMN          | SDGL                    |
|                       |                      |                      |                         | 45.0                | --                     | BEDROCK          | ROCK                    |
| GSM 42                | --                   | 245.0                | --                      | 0.0                 | 0.5                    | 110SDMN          | SDGL                    |
|                       |                      |                      |                         | 0.5                 | --                     | BEDROCK          | ROCK                    |
| GSM 43                | --                   | 270.0                | --                      | 0.0                 | 9.0                    | 110SDMN          | CLAY                    |
|                       |                      |                      |                         | 9.0                 | --                     | BEDROCK          | ROCK                    |
| GSM 44                | --                   | 300.0                | --                      | 95.0                | --                     | BEDROCK          | ROCK                    |
| GSM 45                | --                   | 180.0                | --                      | 0.0                 | 11.0                   | 110SDMN          | CLAY                    |
|                       |                      |                      |                         | 11.0                | --                     | BEDROCK          | ROCK                    |
| GSM 46                | --                   | 300.0                | --                      | 111.0               | --                     | BEDROCK          | ROCK                    |
| GSM 47                | --                   | 260.0                | --                      | 0.0                 | 4.0                    | 110SDMN          | CLAY                    |
|                       |                      |                      |                         | 4.0                 | --                     | BEDROCK          | ROCK                    |
| GSM 48                | --                   | 180.0                | --                      | 0.0                 | 4.0                    | 110SDMN          | CLAY                    |
|                       |                      |                      |                         | 4.0                 | --                     | BEDROCK          | ROCK                    |
| GSM 51                | --                   | 182.0                | --                      | 0.0                 | 135.0                  | 110SDMN          | SAND                    |
|                       |                      |                      |                         | 135.0               | --                     | BEDROCK          | ROCK                    |
| GSM 52                | --                   | 264.0                | --                      | 0.0                 | 90.0                   | 110SDMN          | SAND                    |
|                       |                      |                      |                         | 90.0                | 110.0                  | 110SDMN          | CLAY                    |
|                       |                      |                      |                         | 110.0               | --                     | BEDROCK          | ROCK                    |
| GSM 53                | --                   | 225.0                | --                      | 0.0                 | 50.0                   | 110SDMN          | SDVC                    |
|                       |                      |                      |                         | 50.0                | --                     | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code         | Description of material                    |
|-----------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|--------------------------|--|
| Hillsborough County   |                      |                      |                         |                                |              |                          |  |
| Greenfield--Continued |                      |                      |                         |                                |              |                          |  |
| GSM 54                | --                   | 100.0                | --                      | 0.0                            | 12.0         | 112TILL<br>-- BEDROCK    | TILL<br>ROCK                               |
| GSM 55                | --                   | 505.0                | --                      | 0.0                            | 60.0         | 110SDMN<br>330.0 112TILL | SDGL<br>TILL<br>-- BEDROCK<br>ROCK         |
| GSM 56                | --                   | 310.0                | --                      | 0.0                            | 30.0         | 110SDMN<br>200.0 112TILL | SAND<br>TILL<br>CLAY<br>-- BEDROCK<br>ROCK |
| GSM 58                | --                   | 285.0                | --                      | 0.0                            | 6.0          | 110SDMN<br>--            | SDGL<br>ROCK                               |
| GSM 59                | --                   | 375.0                | --                      | 10.0                           | --           | --                       | ROCK                                       |
| GSM 60                | --                   | 300.0                | --                      | 0.0                            | 210.0        | 110SDMN<br>--            | CLAY<br>ROCK                               |
| GSM 62                | --                   | 300.0                | --                      | 0.0                            | 100.0        | 110SDMN<br>--            | SDGL<br>ROCK                               |
| GSM 64                | --                   | 275.0                | --                      | 45.0                           | --           | --                       | ROCK                                       |
| GSM 65                | --                   | 300.0                | --                      | 0.0                            | --           | 110SDMN<br>-- 112TILL    | SDGL<br>TILL<br>Clay, handpan<br>ROCK      |
| GSM 67                | --                   | 700.0                | --                      | 0.0                            | 20.0         | 110SDMN<br>--            | SDGL<br>ROCK                               |
| GSM 69                | --                   | 265.0                | --                      | 0.0                            | 5.0          | 110SDMN<br>--            | SDGL<br>ROCK                               |
| GSM 70                | --                   | 250.0                | --                      | 0.0                            | 150.0        | 110SDMN<br>--            | SOVC<br>ROCK                               |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code            | Litho-logic code | Description of material  |
|-----------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|-------------------------|------------------|--|
| Hillsborough County   |                      |                      |                         |                             |                                |                         |                  |  |
| Greenfield--Continued |                      |                      |                         |                             |                                |                         |                  |  |
| GSM 71                | --                   | 325.0                | --                      | 0.0                         | 5.0                            | 110SDMN<br>--           | SDGL<br>ROCK     |  |
| GSM 73                | 41.0                 | 30.0                 | --                      | 0.0                         | 13.0                           | 110SDMN<br>24.0 110SDMN | SDGL<br>SDCL     | Very coarse sand-coarse sand, fine gravel<br>Fine to coarse sand, clay, trace gravel             |
|                       |                      |                      |                         | 31.0                        | 31.0                           | 110SDMN                 | SDGL             | Fine to medium sand, gravel  |
|                       |                      |                      |                         | 38.0                        | 38.0                           | 112SRFD                 | SDCL             | Fine to medium sand, clay  |
|                       |                      |                      |                         | 39.0                        | 39.0                           | 112TILL                 | TILL             |  |
|                       |                      |                      |                         | 98.5                        | 98.5                           | 110SDMN                 | SDGL             | Coarse to medium sand, cobbles, pebbles  |
|                       |                      |                      |                         | 17.0                        | 33.0                           | 112SRFD                 | SAND             | Very coarse to medium sand   |
|                       |                      |                      |                         | 33.0                        | 54.0                           | 112SRFD                 | SAND             | Very coarse to fine sand, trace silt   |
|                       |                      |                      |                         | 54.0                        | 56.0                           | 112SRFD                 | CLAY             |  |
|                       |                      |                      |                         | 56.0                        | 93.0                           | 112SRFD                 | SAND             | Medium to fine sand, very coarse to fine gravel, coarse sand-fine gravel, some silt-clay laminae |
|                       |                      |                      |                         | 93.0                        | 98.5                           | 112TILL                 | TILL             | Sandy Gneiss   |
|                       |                      |                      |                         | 98.5                        | --                             | BEDROCK                 |                  |  |
| GSM 75                | 99.0                 | 68.0                 | --                      | 0.0                         | 19.0                           | 110SDMN                 | GRVL             | Pebbles-cobbles, some very coarse sand   |
|                       |                      |                      |                         | 20.0                        | 54.0                           | 112TSH                  | SAND             | Very coarse sand, gravel, some medium sand   |
|                       |                      |                      |                         | 54.0                        | 93.0                           | 112SRFD                 | SAND             | Fine-medium sand, trace CL-SLT, some G-CS  |
|                       |                      |                      |                         | 93.0                        | --                             | 112SRFD                 | SDCL             | Fine sand, silt-clay   |
| GSM 110               | --                   | 45.0                 | --                      | 0.0                         | --                             | 110SDMN                 | SAND             |  |
|                       |                      |                      |                         | --                          | --                             | 110SDMN                 | SDGL             |  |
|                       |                      |                      |                         | --                          | --                             | 110SDMN                 | SAND             |  |
| GSM 111               | --                   | 600.0                | --                      | 0.0                         | 35.0                           | 110SDMN<br>--           | SAND<br>ROCK     |  |
|                       |                      |                      |                         | 35.0                        | --                             | BEDROCK                 |                  |  |
|                       |                      |                      |                         |                             |                                | Hancock                 |                  |  |
| HGA 1                 | 94.0                 | --                   | 94.0                    | 0.0                         | 5.0                            | 111FILL                 | FILL             | Some fine to medium sand   |
|                       |                      |                      |                         | 5.0                         | 59.0                           | 112SRFD                 | SAND             | Fine to coarse sand  |
|                       |                      |                      |                         | 59.0                        | 85.0                           | 112SRFD                 | SDGL             | Fine to coarse sand, well sorted, pebbles, gravel  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material  |
|---------------------|----------------------|-------------------------|--------------------------------|------------------|--|
| Hillsborough County |                      |                         |                                |                  |  |
| Hancock--Continued  |                      |                         |                                |                  |  |
| HGA 1--Continued    |                      | 85.0                    | 94.0                           | 112TILL          | TILL, gray, sandy, very compact, refusal at 94 feet                          |
| HGA 2               | 49.0                 | 44.0                    | 3.0                            | 112SRFD          | Fine to medium sand  |
|                     |                      | 3.0                     | 29.0                           | 112SRFD          | Coarse to very coarse sand, pebble gravel, medium to well sorted, loose      |
|                     |                      | 29.0                    | 44.0                           | 112TILL          | Compact, sandy with angular and weathered rock fragments, refusal at 44 feet |
| HGA 3               | 17.0                 | 17.0                    | 0.0                            | 111FILL          | LAND Fill  |
|                     |                      | 2.0                     | 5.0                            | 111SRFP          | MUD  |
|                     |                      | 5.0                     | 17.0                           | 112SRFD          | SLSN Silt, coarse to very coarse sand, some clay, refusal at 17 feet         |
| HGB 1               | 21.5                 | --                      | 0.0                            | 110SDMN          | SAND Fine  |
|                     |                      | 7.7                     | 11.0                           | 112SRFD          | SAND Coarse sand, gravel   |
|                     |                      | 11.0                    | --                             | 112TILL          | TILL   |
| HGB 2               | 19.0                 | --                      | 0.0                            | 110SDMN          | SAND Gravel  |
|                     |                      | 3.3                     | 9.5                            | 112SRFD          | SAND Coarse sand, gravel   |
|                     |                      | 9.5                     | --                             | 112SRFD          | SAND Coarse sand, gravel, boulder  |
| HGB 3               | 14.8                 | 14.8                    | 0.0                            | 112TILL          | TILL Silty, gravelly   |
| HGB 4               | 17.0                 | 17.0                    | 0.0                            | 110SDMN          | SAND Coarse sand   |
|                     |                      | 4.0                     | --                             | 112SRFD          | SAND Silty, gravelly   |
| HGB 5               | 32.0                 | 32.0                    | 0.0                            | 110SDMN          | CLAY Clay, silt, fine sand   |
|                     |                      | 20.0                    | --                             | 112TILL          | TILL End of hole   |
| HGB 6               | 10.0                 | 10.0                    | 0.0                            | 112TILL          | TILL   |
| HGB 7               | --                   | --                      | 0.0                            | 110SDMN          | SAND Sand, fine, brown   |
|                     |                      | 2.0                     | 17.0                           | 110SDMN          | STCL Silty clay with boulders  |
|                     |                      | 17.0                    | 24.0                           | 112TILL          | TILL   |
|                     |                      | 24.0                    | --                             | 112TILL          | TILL End of hole   |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|---------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|------------------|-------------------------|
| Hillsborough County |                      |                      |                         |                                |              |                  |                         |
| Hancock--Continued  |                      |                      |                         |                                |              |                  |                         |
| HGW 2               | --                   | 130.0                | --                      | 16.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 4               | --                   | 270.0                | --                      | 135.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 5               | --                   | 360.0                | --                      | 290.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 6               | --                   | 240.0                | --                      | 110.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 8               | --                   | 370.0                | --                      | 185.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 10              | --                   | 145.0                | --                      | 60.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 12              | --                   | 134.0                | --                      | 33.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 13              | --                   | 325.0                | --                      | 170.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 14              | --                   | 163.0                | --                      | 70.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 15              | --                   | 129.0                | --                      | 45.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 16              | --                   | 325.0                | --                      | 100.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 18              | --                   | 215.0                | --                      | 65.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 19              | --                   | 178.0                | --                      | 130.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 20              | --                   | 146.0                | --                      | 55.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 21              | --                   | 105.0                | --                      | 76.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 22              | --                   | 280.0                | --                      | 200.0                          | --           | BEDROCK          | ROCK --                 |
| HGW 23              | --                   | 256.0                | --                      | 50.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 24              | --                   | 185.0                | --                      | 15.0                           | --           | BEDROCK          | ROCK --                 |
| HGW 26              | 6.0                  | --                   | 6.0                     | 0.0                            | --           | 112SRFD          | BLDR                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                             |                                |                  |                         |

Hillsborough County

Hancock--Continued

|        |      |       |      |       |       |                 |                                  |
|--------|------|-------|------|-------|-------|-----------------|----------------------------------|
| HGW 27 | 45.0 | --    | --   | 0.0   | 1.5   | 110S01L SOIL    |                                  |
|        |      |       |      | 1.5   | 21.0  | 112SRFD SDGL    | Fine to coarse, trace silt       |
|        |      |       |      | 21.0  | 28.0  | 112SRFD SOVC    | Fine-coarse, silt, fine gravel   |
|        |      |       |      | 28.0  | --    | 112SRFD SDST    | Some fine gravel                 |
| HGW 28 | 75.5 | --    | 75.5 | 0.0   | 4.5   | 110S01L SOIL    |                                  |
|        |      |       |      | 4.5   | 21.0  | 112SRFD SDGL    | Fine-medium, trace silt          |
|        |      |       |      | 21.0  | 56.0  | 112SRFD SNCL    | Silt                             |
|        |      |       |      | 56.0  | 63.0  | 112SRFD SAND    | Trace clay and silt              |
|        |      |       |      | 63.0  | 70.0  | 112SRFD SAND    | Fine-coarse, trace silt and clay |
|        |      |       |      | 70.0  | --    | 112SRFD SOGL    | Mostly fine, trace silt and clay |
| HGW 29 | 60.0 | 56.0  | 60.0 | 0.0   | 4.0   | 110S01L SOIL    |                                  |
|        |      |       |      | 4.0   | 21.0  | 112SRFD SOVC    | Medium, silty                    |
|        |      |       |      | 21.0  | 35.0  | 112SRFD SAND    | Fine-medium                      |
|        |      |       |      | 35.0  | 42.0  | 112SRFD SDGL    | Fine-coarse sand, fine gravel    |
|        |      |       |      | 42.0  | --    | 112SRFD SOGL    | Fine-medium, trace silt          |
| HGW 30 | 31.0 | 31.0  | 31.0 | 0.0   | 2.5   | 110S01L SOIL    |                                  |
|        |      |       |      | 2.5   | 21.0  | 112SRFD SDGL    | Fine-coarse, trace silt          |
|        |      |       |      | 21.0  | --    | 112SRFD SOGL    | Fine-coarse, trace silt          |
| HGW 31 | --   | 385.0 | --   | 0.0   | 285.0 | 110SDMN BEDROCK |                                  |
| HGW 33 | 52.0 | 18.0  | 52.0 | 0.0   | 5.0   | 112SRFD GRVL    | Medium                           |
|        |      |       |      | 5.0   | 16.0  | 112SRFD GRVL    | Coarse                           |
|        |      |       |      | 16.0  | 21.0  | 112SRFD SAND    | Fine-coarse                      |
|        |      |       |      | 21.0  | 25.0  | 112SRFD SDGL    | Fine, trace clay                 |
|        |      |       |      | 25.0  | 50.0  | 112SRFD SDGL    | Medium                           |
|        |      |       |      | 50.0  | --    | 112TILL SOCL    | Hardpan                          |
| HGW 37 | --   | 520.0 | --   | 0.0   | --    | 112TILL TILL    | Sand, hardpan                    |
|        |      |       |      | --    | --    | 110SDMN CLAY    |                                  |
|        |      |       |      | 140.0 | --    | BEDROCK         | ROCK                             |
| HGW 38 | --   | 12.0  | --   | 0.0   | --    | 110SDMN SOVC    |                                  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                             |                                |                  |                         |

Hillsborough County

Hancock--Continued

|        |    |       |    |       |       |              |               |
|--------|----|-------|----|-------|-------|--------------|---------------|
| HGW 39 | -- | 500.0 | -- | 0.0   | --    | 110SDMN SAND |               |
|        |    |       |    | --    | --    | 112TILL TILL |               |
|        |    |       |    | 150.0 | --    | BEDROCK      | ROCK          |
| HGW 40 | -- | 192.0 | -- | 0.0   | --    | 110SDMN SAND |               |
|        |    |       |    | --    | --    | 112TILL TILL | Clay, hardpan |
|        |    |       |    | 50.0  | --    | BEDROCK      | ROCK          |
| HGW 41 | -- | 218.0 | -- | 0.0   | --    | 110SDMN SDGL |               |
|        |    |       |    | --    | 30.0  | 112TILL TILL | Clay, hardpan |
|        |    |       |    | 30.0  | 75.0  | 110SDMN SDGL |               |
|        |    |       |    | 75.0  | --    | BEDROCK      | ROCK          |
| HGW 42 | -- | 301.0 | -- | 13.0  | --    | BEDROCK      | ROCK          |
| HGW 43 | -- | 268.0 | -- | 0.0   | --    | 112TILL TILL | Sand, hardpan |
|        |    |       |    | --    | --    | 110SDMN SOVC |               |
|        |    |       |    | 160.0 | --    | BEDROCK      | ROCK          |
| HGW 44 | -- | 340.0 | -- | 0.0   | 18.0  | 112TILL TILL |               |
|        |    |       |    | 18.0  | --    | BEDROCK      | ROCK          |
| HGW 45 | -- | 300.0 | -- | 0.0   | --    | 110SDMN SOGL |               |
|        |    |       |    | --    | --    | 112TILL TILL |               |
|        |    |       |    | 163.0 | --    | BEDROCK      | ROCK          |
| HGW 46 | -- | 400.0 | -- | 0.0   | 150.0 | 110SDMN SDGL |               |
|        |    |       |    | 150.0 | --    | BEDROCK      | ROCK          |
| HGW 47 | -- | 300.0 | -- | 0.0   | --    | 112TILL TILL |               |
|        |    |       |    | --    | --    | 110SDMN SOGL |               |
|        |    |       |    | 105.0 | --    | BEDROCK      | ROCK          |
| HGW 48 | -- | 300.0 | -- | 25.0  | --    | BEDROCK      | ROCK          |
| HGW 49 | -- | 225.0 | -- | 0.0   | 135.0 | 110SDMN SDGL |               |
|        |    |       |    | 135.0 | --    | BEDROCK      | ROCK          |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|---------------------|----------------------|----------------------|-------------------------|--------------------------------|------------------|-------------------------|
| Hillsborough County |                      |                      |                         |                                |                  |                         |
| Hancock--Continued  |                      |                      |                         |                                |                  |                         |
| HGM 50              | --                   | 207.0                | --                      | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                         | --                             | 110SDMN CLAY     |                         |
|                     |                      |                      |                         | --                             | 110SDMN SAND     |                         |
|                     |                      |                      |                         | 105.0                          | BEDROCK          | ROCK                    |
| HGM 51              | --                   | 168.0                | --                      | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                         | 30.0                           | BEDROCK          | ROCK                    |
| HGM 52              | --                   | 220.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 105.0                          | BEDROCK          | ROCK                    |
| HGM 53              | --                   | 200.0                | --                      | 0.0                            | 110SDMN CLAY     |                         |
|                     |                      |                      |                         | 4.0                            | BEDROCK          | ROCK                    |
| HGM 54              | --                   | 270.0                | --                      | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                         | 105.0                          | BEDROCK          | ROCK                    |
| HGM 55              | --                   | 305.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 13.0                           | BEDROCK          | ROCK                    |
| HGM 56              | --                   | 365.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 133.0                          | BEDROCK          | ROCK                    |
| HGM 57              | --                   | 212.0                | --                      | 0.0                            | 110SDMN CLAY     |                         |
|                     |                      |                      |                         | --                             | 110SDMN SDGL     |                         |
| HGM 58              | --                   | 320.0                | --                      | 0.0                            | 110SDMN CLAY     |                         |
|                     |                      |                      |                         | 95.0                           | BEDROCK          | ROCK                    |
| HGM 59              | --                   | 550.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 10.0                           | BEDROCK          | ROCK                    |
| HGM 60              | --                   | 220.0                | --                      | 0.0                            | 110SDMN SGVC     |                         |
|                     |                      |                      |                         | 80.0                           | BEDROCK          | ROCK                    |
| HGM 61              | --                   | 150.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 61.0                           | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|---------------------|----------------------|----------------------|-------------------------|--------------------------------|------------------|-------------------------|
| Hillsborough County |                      |                      |                         |                                |                  |                         |
| Hancock--Continued  |                      |                      |                         |                                |                  |                         |
| HGM 62              | --                   | 430.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 33.0                           | BEDROCK          | ROCK                    |
| HGM 63              | --                   | 126.0                | --                      | 0.0                            | 110SDMN CLAY     |                         |
|                     |                      |                      |                         | --                             | 110SDMN SDGL     |                         |
| HGM 64              | --                   | 300.0                | --                      | 0.0                            | 110SDMN SGVC     |                         |
|                     |                      |                      |                         | --                             | 112TILL          | TILL                    |
|                     |                      |                      |                         | 135.0                          | BEDROCK          | ROCK                    |
| HGM 65              | --                   | 320.0                | --                      | 0.0                            | 110SDMN SGVC     |                         |
|                     |                      |                      |                         | 30.0                           | BEDROCK          | ROCK                    |
| HGM 66              | --                   | 200.0                | --                      | 0.0                            | 110SDMN CLAY     |                         |
|                     |                      |                      |                         | 46.0                           | BEDROCK          | ROCK                    |
| HGM 67              | --                   | 345.0                | --                      | 0.0                            | 110SDMN SGVC     |                         |
|                     |                      |                      |                         | 100.0                          | BEDROCK          | ROCK                    |
| HGM 68              | --                   | 255.0                | --                      | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                         | 65.0                           | BEDROCK          | ROCK                    |
| HGM 69              | --                   | 560.0                | --                      | 38.0                           | BEDROCK          | ROCK                    |
| HGM 70              | --                   | 475.0                | --                      | 25.0                           | BEDROCK          | ROCK                    |
| HGM 71              | --                   | 900.0                | --                      | 40.0                           | BEDROCK          | ROCK                    |
| HGM 72              | --                   | 400.0                | --                      | 0.0                            | 112TILL          | TILL                    |
|                     |                      |                      |                         | 40.0                           | BEDROCK          | ROCK                    |
| HGM 73              | --                   | 350.0                | --                      | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                         | 20.0                           | BEDROCK          | ROCK                    |
| HGM 74              | --                   | 200.0                | --                      | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                         | 23.0                           | BEDROCK          | ROCK                    |
| HGM 75              | --                   | 188.0                | --                      | 8.0                            | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|------------------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| HGW 76            | --                   | 300.0                        | --                          | 0.0                            | 110SDMN      | SGVC            |                         |
|                   |                      |                              | 151.0                       | --                             | BEDROCK      | ROCK            |                         |
| HGW 77            | --                   | 370.0                        | --                          | 0.0                            | 110SDMN      | CLAY            |                         |
|                   |                      |                              | 107.0                       | --                             | BEDROCK      | ROCK            |                         |
| HGW 78            | --                   | 272.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | --                          | --                             | 112TILL      | TILL            | Sand, hardpan           |
|                   |                      |                              | 80.0                        | --                             | BEDROCK      | ROCK            |                         |
| HGW 79            | --                   | 291.0                        | --                          | 0.0                            | 110SDMN      | SDCL            |                         |
|                   |                      |                              | --                          | --                             | 112TILL      | TILL            | Sand, clay, hardpan     |
|                   |                      |                              | 125.0                       | --                             | BEDROCK      | ROCK            |                         |
| HGW 80            | --                   | 220.0                        | --                          | 0.0                            | 112TILL      | TILL            |                         |
|                   |                      |                              | 41.0                        | --                             | BEDROCK      | ROCK            |                         |
| HGW 81            | --                   | 400.0                        | --                          | 0.0                            | 110SDMN      | OTHR            |                         |
|                   |                      |                              | 9.0                         | --                             | BEDROCK      | ROCK            |                         |
| HGW 82            | --                   | 220.0                        | --                          | 124.0                          | --           | BEDROCK         | ROCK                    |
| HGW 83            | --                   | 300.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | 31.0                        | --                             | BEDROCK      | ROCK            |                         |
| HGW 84            | --                   | 182.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | 15.0                        | --                             | BEDROCK      | ROCK            |                         |
| HGW 85            | --                   | 176.0                        | --                          | 76.0                           | --           | BEDROCK         | ROCK                    |
| HGW 86            | --                   | 350.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | 30.0                        | --                             | BEDROCK      | ROCK            |                         |
| HGW 87            | --                   | 500.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | 16.0                        | --                             | BEDROCK      | ROCK            |                         |
| HGW 88            | --                   | 425.0                        | --                          | 190.0                          | --           | BEDROCK         | ROCK                    |

Hillsborough County

Hancock--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|------------------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| HGW 89            | --                   | 300.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | 150.0                       | --                             | BEDROCK      | ROCK            |                         |
| HGW 94            | --                   | 400.0                        | --                          | 0.0                            | 110SDMN      | SDCL            |                         |
|                   |                      |                              | 283.0                       | --                             | BEDROCK      | ROCK            |                         |
| HGW 95            | --                   | 500.0                        | --                          | 0.0                            | 110SDMN      | SDGL            |                         |
|                   |                      |                              | --                          | --                             | 112TILL      | TILL            |                         |
|                   |                      |                              | --                          | --                             | 110SDMN      | CLAY            |                         |
|                   |                      |                              | 165.0                       | --                             | BEDROCK      | ROCK            |                         |
| HGW 96            | --                   | 450.0                        | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                   |                      |                              | 150.0                       | --                             | BEDROCK      | ROCK            |                         |

Hillsborough County

Hancock--Continued

Hillsborough

|       |      |       |      |      |         |         |                       |
|-------|------|-------|------|------|---------|---------|-----------------------|
| HOB 1 | 52.5 | --    | 52.5 | 0.0  | 112SRFD | SAND    | Fine                  |
|       |      |       |      | 13.3 | 112SRFD | SAND    | Coarse, gravel        |
| HOB 2 | 47.5 | --    | 47.5 | 0.0  | 112SRFD | SAND    | Fine                  |
|       |      |       |      | 12.3 | 112SRFD | SAND    | Coarse, little gravel |
|       |      |       |      | 34.7 | 112SRFD | SAND    | Coarse                |
|       |      |       |      | 43.4 | 112SRFD | SAND    | Coarse                |
|       |      |       |      | 43.4 | --      | 112SRFD | SDGL                  |
| HOB 3 | 17.5 | --    | --   | 0.0  | 110ALVM | BLDR    |                       |
|       |      |       |      | 1.0  | 112SRFD | SAND    | Fine                  |
|       |      |       |      | 8.5  | 112TILL | TILL    | Clay                  |
| HOB 4 | --   | --    | --   | 0.0  | --      | 112TILL | TILL                  |
| HOB 5 | 15.0 | 15.0  | 15.0 | 0.0  | 112TILL | TILL    |                       |
|       |      |       | 14.8 | --   | BEDROCK | ROCK    | Bedrock               |
| HOB 4 | --   | 110.0 | --   | 50.0 | --      | BEDROCK | ROCK                  |
| HOB 5 | --   | 204.0 | --   | 51.0 | --      | BEDROCK | ROCK                  |
| HOB 6 | --   | 189.0 | --   | 29.0 | --      | BEDROCK | ROCK                  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material                                    |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|--|
| Hillsborough County     |                      |                      |                             |                                |              |                 |  |
| Hillsborough--Continued |                      |                      |                             |                                |              |                 |  |
| HOW 8                   | --                   | 125.0                | --                          | 14.0                           | --           | BEDROCK         | ROCK --  |
| HOW 9                   | --                   | 160.0                | --                          | 50.0                           | --           | BEDROCK         | ROCK --  |
| HOW 10                  | --                   | 235.0                | --                          | 94.0                           | --           | BEDROCK         | ROCK --  |
| HOW 11                  | --                   | 165.0                | --                          | 5.0                            | --           | BEDROCK         | ROCK --  |
| HOW 12                  | --                   | 308.0                | --                          | 222.0                          | --           | BEDROCK         | ROCK --  |
| HOW 13                  | --                   | 185.0                | --                          | 166.0                          | --           | BEDROCK         | ROCK --  |
| HOW 14                  | 172.0                | --                   | --                          | 0.0                            | 5.0          | 112SRFD         | SDGL Fine to medium sand, fine to coarse gravel            |
|                         |                      |                      |                             | 5.0                            | 45.0         | 112SRFD         | SDGL Fine to medium sand, fine to coarse gravel, gray clay |
|                         |                      |                      |                             | 45.0                           | 55.0         | 112SRFD         | SDGL Fine to coarse, with clay and silt                    |
|                         |                      |                      |                             | 55.0                           | 65.0         | 112SRFD         | CLAY Gray  |
|                         |                      |                      |                             | 65.0                           | 80.0         | 112SRFD         | TILL Fine to coarse, with gray clay and silt, hardpan?     |
|                         |                      |                      |                             | 80.0                           | 95.0         | 112SRFD         | TILL Fine to medium, some gravel and silt, brown           |
|                         |                      |                      |                             | 95.0                           | 100.0        | 112SRFD         | TILL Fine to medium gravel and silt, brown                 |
|                         |                      |                      |                             | 100.0                          | 124.0        | 112SRFD         | TILL Fine to medium, with silt, brown                      |
|                         |                      |                      |                             | 124.0                          | 134.0        | 112SRFD         | TILL More gravel than above unit, with silt                |
|                         |                      |                      |                             | 134.0                          | 162.0        | 112SRFD         | TILL Fine to medium, with silt, reddish-brown              |
|                         |                      |                      |                             | 162.0                          | --           | BEDROCK         | ROCK   |
| HOW 15                  | 77.0                 | 70.0                 | --                          | 0.0                            | 28.0         | 112SRFD         | SAND Fine  |
|                         |                      |                      |                             | 28.0                           | 35.0         | 112SRFD         | SDCL Fine  |
|                         |                      |                      |                             | 35.0                           | 43.0         | 112SRFD         | SAND Fine, some gravel                                     |
|                         |                      |                      |                             | 43.0                           | 70.0         | 112SRFD         | SDGL Coarse  |
|                         |                      |                      |                             | 70.0                           | --           | 112SRFD         | SAND Fine, some gravel                                     |
| HOW 16                  | 63.0                 | --                   | 63.0                        | 0.0                            | 21.0         | 112SRFD         | SDGL Medium-fine   |
|                         |                      |                      |                             | 21.0                           | 35.0         | 112SRFD         | SDCL Fine  |
|                         |                      |                      |                             | 35.0                           | --           | 112SRFD         | SAND Fine  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| Hillsborough County     |                      |                      |                             |                                |              |                 |                         |
| Hillsborough--Continued |                      |                      |                             |                                |              |                 |                         |
| HOW 17                  | 72.0                 | --                   | 72.0                        | 0.0                            | 28.0         | 112SRFD         | SDGL Fine               |
|                         |                      |                      |                             | 28.0                           | 35.0         | 112SRFD         | CLAY Some gravel        |
|                         |                      |                      |                             | 35.0                           | --           | 112SRFD         | CLAY                    |
| HOW 18                  | 54.0                 | --                   | 54.0                        | 0.0                            | 28.0         | 112SRFD         | SDGL Medium             |
|                         |                      |                      |                             | 28.0                           | 35.0         | 112SRFD         | CLAY Clay and gravel    |
|                         |                      |                      |                             | 35.0                           | 42.0         | 112SRFD         | CLAY                    |
|                         |                      |                      |                             | 42.0                           | 49.0         | 112SRFD         | CLAY Clay and gravel    |
|                         |                      |                      |                             | 49.0                           | --           | 112SRFD         | GRVL Trace clay         |
| HOW 19                  | 72.0                 | --                   | 72.0                        | 0.0                            | 21.0         | 112SRFD         | SAND Fine               |
|                         |                      |                      |                             | 21.0                           | 28.0         | 112SRFD         | SAND Some fine gravel   |
|                         |                      |                      |                             | 28.0                           | 35.0         | 112SRFD         | SAND Fine               |
|                         |                      |                      |                             | 35.0                           | 63.0         | 112SRFD         | SDST Fine               |
|                         |                      |                      |                             | 63.0                           | --           | 112SRFD         | SDST Gravel             |
| HOW 20                  | 46.0                 | 42.0                 | 46.0                        | 0.0                            | 21.0         | 112SRFD         | SAND Fine               |
|                         |                      |                      |                             | 21.0                           | 28.0         | 112SRFD         | SAND Fine, some clay    |
|                         |                      |                      |                             | 28.0                           | 34.0         | 112SRFD         | CLAY                    |
|                         |                      |                      |                             | 34.0                           | 42.0         | 112SRFD         | SDGL Medium             |
|                         |                      |                      |                             | 42.0                           | --           | 112SRFD         | GRVL Some fine sand     |
| HOW 21                  | 19.0                 | --                   | 19.0                        | 0.0                            | --           | 112SRFD         | SAND Fine               |
| HOW 22                  | --                   | 521.0                | --                          | 0.0                            | 80.0         | 110SDMN         | ROCK                    |
|                         |                      |                      |                             | 80.0                           | --           | BEDROCK         | ROCK                    |
| HOW 23                  | --                   | 430.0                | --                          | 0.0                            | 76.0         | 110SDMN         | ROCK                    |
|                         |                      |                      |                             | 76.0                           | --           | BEDROCK         | ROCK                    |
| HOW 24                  | --                   | 285.0                | --                          | 0.0                            | 90.0         | 110SDMN         | ROCK                    |
|                         |                      |                      |                             | 90.0                           | --           | BEDROCK         | ROCK                    |
| HOW 25                  | --                   | 475.0                | --                          | 0.0                            | 90.0         | 110SDMN         | ROCK                    |
|                         |                      |                      |                             | 90.0                           | --           | BEDROCK         | ROCK                    |
| HOW 26                  | --                   | 500.0                | --                          | 0.0                            | 68.0         | 110SDMN         | ROCK                    |
|                         |                      |                      |                             | 68.0                           | --           | BEDROCK         | ROCK                    |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code   | Description of material                      |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------------|--|
| Hillsborough County     |                      |                      |                             |                                |                    |  |
| Hillsborough--Continued |                      |                      |                             |                                |                    |  |
| HOW 27                  | --                   | 310.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | ROCK   |
| HOW 30                  | --                   | 260.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | ROCK   |
| HOW 31                  | --                   | 500.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | ROCK   |
| HOW 32                  | --                   | 355.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | ROCK   |
| HOW 33                  | --                   | 248.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | ROCK   |
| HOW 34                  | --                   | 240.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | SDGL<br>ROCK                                 |
| HOW 35                  | --                   | 140.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>ROCK                                 |
| HOW 36                  | --                   | 335.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | CLAY<br>SDGL                                 |
| HOW 37                  | --                   | 200.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | SDGL<br>TILL<br>Clay, hardpan                |
| HOW 38                  | --                   | 80.0                 | --                          | 0.0                            | 110SDMN<br>BEDROCK | SAND<br>TILL<br>SAND<br>TILL<br>TILL<br>SDGL |
| HOW 39                  | --                   | 75.0                 | --                          | 0.0                            | 110SDMN<br>BEDROCK | SDGL<br>TILL<br>SDGL                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code   | Description of material      |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------------|------------------------------|
| Hillsborough County     |                      |                      |                             |                                |                    |                              |
| Hillsborough--Continued |                      |                      |                             |                                |                    |                              |
| HOW 40                  | --                   | 125.0                | --                          | 78.0                           | BEDROCK            | ROCK                         |
| HOW 41                  | --                   | 200.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | SDGL<br>CLAY<br>ROCK         |
| HOW 42                  | --                   | 130.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>ROCK                 |
| HOW 43                  | --                   | 500.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>ROCK                 |
| HOW 45                  | --                   | 320.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | OTHR<br>ROCK                 |
| HOW 46                  | --                   | 244.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | SAND<br>ROCK                 |
| HOW 47                  | --                   | 253.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>ROCK                 |
| HOW 48                  | --                   | 160.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>CLAY<br>SDGL         |
| HOW 49                  | --                   | 325.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>CLAY<br>TILL<br>SDGL |
| HOW 50                  | --                   | 400.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>ROCK                 |
| HOW 51                  | --                   | 325.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | TILL<br>ROCK                 |
| HOW 52                  | --                   | 605.0                | --                          | 0.0                            | 110SDMN<br>BEDROCK | SDGL<br>ROCK                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom (feet) | Litho-logic code              | Description of material |
|-------------------------|----------------------|----------------------|-------------------------|---------------------|------------------------|-------------------------------|-------------------------|
|                         |                      |                      |                         |                     |                        |                               |                         |
| Hillsborough County     |                      |                      |                         |                     |                        |                               |                         |
| Hillsborough--Continued |                      |                      |                         |                     |                        |                               |                         |
| HOW 53                  | --                   | 142.0                | --                      | 0.0                 | 25.0                   | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HOW 55                  | --                   | 235.0                | --                      | 0.0                 | 120.0                  | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HOW 61                  | --                   | 104.0                | --                      | 4.0                 | --                     | BEDROCK                       | ROCK                    |
| HOW 62                  | --                   | 400.0                | --                      | 0.0                 | --                     | 110SDMN<br>110SDMN<br>BEDROCK | SAND<br>CLAY<br>ROCK    |
| HOW 64                  | --                   | 165.0                | --                      | 0.0                 | 35.0                   | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HOW 65                  | --                   | 250.0                | --                      | 0.0                 | 14.0                   | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HOW 66                  | --                   | 160.0                | --                      | 0.0                 | 55.0                   | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HOW 67                  | --                   | 340.0                | --                      | 0.0                 | 310.0                  | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HOW 68                  | --                   | 340.0                | --                      | 0.0                 | --                     | 112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK    |
| HOW 71                  | --                   | 420.0                | --                      | 25.0                | --                     | BEDROCK                       | ROCK                    |
| HOW 73                  | --                   | 340.0                | --                      | 0.0                 | --                     | 110SDMN<br>110SDMN<br>BEDROCK | CLAY<br>CLAY<br>ROCK    |
| HOW 74                  | --                   | 100.0                | --                      | 40.0                | --                     | BEDROCK                       | ROCK                    |
| HOW 75                  | --                   | 440.0                | --                      | 27.0                | --                     | BEDROCK                       | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom (feet) | Litho-logic code                         | Description of material      |
|-------------------------|----------------------|----------------------|-------------------------|---------------------|------------------------|--|------------------------------|
|                         |                      |                      |                         |                     |                        |  |                              |
| Hillsborough County     |                      |                      |                         |                     |                        |  |                              |
| Hillsborough--Continued |                      |                      |                         |                     |                        |  |                              |
| HOW 76                  | --                   | 413.0                | --                      | 0.0                 | --                     | 112TILL<br>110SDMN<br>BEDROCK            | TILL<br>CLAY<br>ROCK         |
| HOW 77                  | --                   | 385.0                | --                      | 56.0                | --                     | BEDROCK                                  | ROCK                         |
| HOW 78                  | --                   | 200.0                | --                      | 0.0                 | --                     | 112TILL<br>110SDMN<br>110SDMN<br>BEDROCK | TILL<br>SDGL<br>CLAY<br>ROCK |
| HOW 79                  | --                   | 125.0                | --                      | 0.0                 | 103.0                  | 112TILL<br>BEDROCK                       | TILL<br>ROCK                 |
| HOW 80                  | --                   | 420.0                | --                      | 0.0                 | --                     | 110SDMN<br>110SDMN<br>110SDMN<br>BEDROCK | SAND<br>SDGL<br>CLAY<br>ROCK |
| HOW 86                  | --                   | 260.0                | --                      | 0.0                 | --                     | 112TILL<br>110SDMN<br>BEDROCK            | TILL<br>CLAY<br>ROCK         |
| HOW 87                  | --                   | 205.0                | --                      | 0.0                 | 140.0                  | 112TILL<br>BEDROCK                       | TILL<br>ROCK                 |
| HOW 88                  | --                   | 260.0                | --                      | 0.0                 | --                     | 110SDMN<br>110SDMN<br>BEDROCK            | SAND<br>SDGL<br>CLAY<br>ROCK |
| HOW 89                  | --                   | 255.0                | --                      | 0.0                 | --                     | 110SDMN<br>112TILL<br>BEDROCK            | SDGL<br>TILL<br>ROCK         |
| HOW 90                  | --                   | 355.0                | --                      | 0.0                 | 39.0                   | 112TILL<br>BEDROCK                       | TILL<br>ROCK                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                                      |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|--|
| Hillsborough County     |                      |                      |                             |                                |                  |  |
| Hillsborough--Continued |                      |                      |                             |                                |                  |  |
| HOW 91                  | --                   | 605.0                | --                          | 0.0                            | 180.0            | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 93                  | --                   | 380.0                | --                          | 262.0                          | --               | BEDROCK ROCK   |
| HOW 94                  | --                   | 256.0                | --                          | 0.0                            | 6.0              | 110SDMN SAND<br>BEDROCK ROCK                                 |
| HOW 95                  | --                   | 500.0                | --                          | 0.0                            | --               | 112TILL TILL<br>110SDMN CLAY<br>112TILL TILL<br>BEDROCK ROCK |
| HOW 96                  | --                   | 162.0                | --                          | 0.0                            | 50.0             | 110SDMN SDGL<br>BEDROCK ROCK                                 |
| HOW 97                  | --                   | 200.0                | --                          | 0.0                            | --               | 110SDMN SDGL<br>110SDMN CLAY<br>BEDROCK ROCK                 |
| HOW 98                  | --                   | 240.0                | --                          | 0.0                            | --               | 112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK                 |
| HOW 99                  | --                   | 400.0                | --                          | 0.0                            | 50.0             | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 100                 | --                   | 20.0                 | --                          | 0.0                            | --               | 112TILL TILL   |
| HOW 102                 | --                   | 340.0                | --                          | 0.0                            | --               | 112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK                 |
| HOW 103                 | --                   | 360.0                | --                          | 0.0                            | 25.0             | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 104                 | --                   | 260.0                | --                          | 0.0                            | 115.0            | 112TILL TILL<br>BEDROCK ROCK                                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                                      |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|--|
| Hillsborough County     |                      |                      |                             |                                |                  |  |
| Hillsborough--Continued |                      |                      |                             |                                |                  |  |
| HOW 107                 | --                   | 305.0                | --                          | 0.0                            | --               | 110SDMN SAND<br>112TILL TILL                                 |
| HOW 108                 | --                   | 405.0                | --                          | 0.0                            | 221.0            | 110SDMN SDGL<br>110SDMN CLAY<br>BEDROCK ROCK                 |
| HOW 110                 | --                   | 214.0                | --                          | 0.0                            | 56.0             | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 111                 | --                   | 250.0                | --                          | 0.0                            | 70.0             | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 112                 | --                   | 196.0                | --                          | 0.0                            | 15.0             | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 114                 | --                   | 130.0                | --                          | 0.0                            | 10.0             | 110SDMN SAND<br>110SDMN SDGL<br>110SDMN CLAY<br>110SDMN SDGL |
| HOW 115                 | --                   | 560.0                | --                          | 58.0                           | --               | BEDROCK ROCK   |
| HOW 116                 | --                   | 365.0                | --                          | 0.0                            | 7.0              | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 117                 | --                   | 365.0                | --                          | 0.0                            | 70.0             | 112TILL TILL<br>BEDROCK ROCK                                 |
| HOW 118                 | --                   | 305.0                | --                          | 112.0                          | --               | BEDROCK ROCK   |
| HOW 119                 | --                   | 405.0                | --                          | 0.0                            | --               | 112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material  |
|-------------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|------------------|--|
| Hillsborough County     |                      |                      |                         |                             |                                |                  |  |
| Hillsborough--Continued |                      |                      |                         |                             |                                |                  |  |
| HOW 121                 | --                   | 204.0                | --                      | 0.0                         | --                             | 110SDMN SDGL     |  |
|                         |                      |                      |                         | --                          | --                             | 110SDMN SAND     |  |
|                         |                      |                      |                         | --                          | --                             | 110SDMN CLAY     |  |
|                         |                      |                      |                         | 80.0                        | --                             | BEDROCK          | ROCK   |
| HOW 122                 | --                   | 200.0                | --                      | 0.0                         | --                             | 110SDMN SAND     |  |
|                         |                      |                      |                         | --                          | --                             | 112TILL TILL     |  |
|                         |                      |                      |                         | --                          | --                             | 110SDMN CLAY     |  |
|                         |                      |                      |                         | 103.0                       | --                             | BEDROCK          | ROCK   |
| HOW 123                 | --                   | 420.0                | --                      | 0.0                         | --                             | 110SDMN SAND     |  |
|                         |                      |                      |                         | --                          | --                             | 110SDMN CLAY     |  |
|                         |                      |                      |                         | 198.0                       | --                             | BEDROCK          | ROCK   |
| New Ipswich             |                      |                      |                         |                             |                                |                  |  |
| NJA 1                   | 31.0                 | --                   | 31.0                    | 0.0                         | 2.5                            | 112SRFD GRVL     | Cobble gravel  |
|                         |                      |                      |                         | 2.5                         | 7.5                            | 112SRFD SDGL     | Granule gravel, fine to very coarse sand, poorly sorted                                      |
|                         |                      |                      |                         | 7.5                         | 12.5                           | 112SRFD SDGL     | Granule gravel, very coarse sand, some fine to medium sand, 1 inch round stones, medium sand |
|                         |                      |                      |                         | 12.5                        | 29.5                           | 112SRFD SDGL     | Granule gravel, very coarse to fine sand, well sorted  |
|                         |                      |                      |                         | 29.5                        | 31.0                           | 112TILL TILL     | Till, gray, clayey, angular rock fragments, refusal at 31 feet                               |
| NJA 2                   | 24.0                 | --                   | 24.0                    | 0.0                         | 17.0                           | 112SRFD SDGL     | Pebble gravel, cobble gravel   |
|                         |                      |                      |                         | 17.0                        | 24.0                           | 112TILL TILL     | Till, refusal at 24 feet   |
| NJA 3                   | 37.0                 | --                   | 37.0                    | 0.0                         | 22.0                           | 112SRFD SAND     | Fine sand, some iron staining  |
|                         |                      |                      |                         | 22.0                        | 31.0                           | 112SRFD SDST     | Very fine sand, silt   |
|                         |                      |                      |                         | 31.0                        | 37.0                           | 112TILL TILL     | Till, refusal at 37 feet   |
| NJW 50                  | --                   | 260.0                | --                      | 0.0                         | 60.0                           | 110SDMN SDGL     |  |
|                         |                      |                      |                         | 60.0                        | --                             | BEDROCK          | ROCK   |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number      | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|------------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| Hillsborough County    |                      |                      |                         |                             |                                |                  |                         |
| New Ipswich--Continued |                      |                      |                         |                             |                                |                  |                         |
| NJW 76                 | --                   | 255.0                | --                      | 0.0                         | 25.0                           | 110SDMN SGVC     |                         |
|                        |                      |                      |                         | 25.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 77                 | --                   | 380.0                | --                      | 0.0                         | 77.0                           | 110SDMN SAND     |                         |
|                        |                      |                      |                         | 77.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 87                 | --                   | 500.0                | --                      | 0.0                         | 30.0                           | 110SDMN SDGL     |                         |
|                        |                      |                      |                         | 30.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 89                 | --                   | 155.0                | --                      | 0.0                         | 20.0                           | 110SDMN SAND     |                         |
|                        |                      |                      |                         | 20.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 92                 | --                   | 440.0                | --                      | 0.0                         | 2.0                            | 110SDMN CLAY     |                         |
|                        |                      |                      |                         | 2.0                         | --                             | BEDROCK          | ROCK                    |
| NJW 93                 | --                   | 200.0                | --                      | 0.0                         | 13.0                           | 110SDMN CLAY     |                         |
|                        |                      |                      |                         | 13.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 101                | --                   | 300.0                | --                      | 0.0                         | 19.0                           | 112TILL TILL     |                         |
|                        |                      |                      |                         | 19.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 107                | --                   | 380.0                | --                      | 0.0                         | --                             | 110SDMN SAND     |                         |
|                        |                      |                      |                         | --                          | --                             | 112TILL TILL     |                         |
|                        |                      |                      |                         | 72.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 109                | --                   | 360.0                | --                      | 0.0                         | --                             | 110SDMN SAND     |                         |
|                        |                      |                      |                         | --                          | --                             | 112TILL TILL     |                         |
|                        |                      |                      |                         | 50.0                        | --                             | BEDROCK          | ROCK                    |
| NJW 110                | --                   | 500.0                | --                      | 0.0                         | 110.0                          | 110SDMN CLAY     |                         |
|                        |                      |                      |                         | 110.0                       | --                             | BEDROCK          | ROCK                    |
| NJW 116                | --                   | 380.0                | --                      | 0.0                         | 110.0                          | 112TILL TILL     |                         |
|                        |                      |                      |                         | 110.0                       | --                             | BEDROCK          | ROCK                    |
| NJW 117                | --                   | 430.0                | --                      | 0.0                         | --                             | 112TILL TILL     |                         |
|                        |                      |                      |                         | --                          | --                             | 110SDMN SDGL     |                         |
|                        |                      |                      |                         | 120.0                       | --                             | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|

Hillsborough County

New Ipswich--Continued

|         |    |       |    |      |                            |              |
|---------|----|-------|----|------|----------------------------|--------------|
| NJW 120 | -- | 365.0 | -- | 0.0  | 110SDMN<br>SDGL<br>BEDROCK | ROCK         |
| NJW 121 | -- | 480.0 | -- | 0.0  | 110SDMN<br>BEDROCK         | CLAY<br>ROCK |
| NJW 129 | -- | 205.0 | -- | 0.0  | 110SDMN<br>BEDROCK         | SDGL<br>ROCK |
| NJW 144 | -- | 600.0 | -- | 0.0  | 110SDMN<br>BEDROCK         | CLAY<br>ROCK |
| NJW 145 | -- | 395.0 | -- | 87.0 | BEDROCK                    | ROCK         |

Peterborough

|       |      |    |    |      |         |      |   |
|-------|------|----|----|------|---------|------|---|
| PCA 1 | 86.0 | -- | -- | 0.0  | 110SDIL | SOIL | Sandy soil  |
|       |      |    |    | 2.5  | 112SRFD | SDST | Very fine sand and silt, trace clay, well sorted, dry           |
|       |      |    |    | 20.0 | 112SRFD | SDGL | pebble gravel, very coarse sand some fine to medium, trace silt |
|       |      |    |    | 69.0 | 112TILL | TILL | Till, sandy, compact with angular and weathered rocks           |
| PCA 2 | 90.0 | -- | -- | 0.0  | 110SOIL | SOIL | Top soil  |
|       |      |    |    | 10.0 | 112SRFD | SAND | Coarse to very coarse sand                                      |
|       |      |    |    | 33.0 | 112SRFD | SAND | Fine to very fine sand, brown                                   |
|       |      |    |    | 44.0 | 112SRFD | CLAY | Gray clay   |
|       |      |    |    | 89.0 | 112TILL | TILL | Till, end of hole   |
| PCB 1 | 25.0 | -- | -- | 0.0  | 110SDMN | MUCK |   |
|       |      |    |    | 9.0  | 110SDMN | SAND | Fine  |
|       |      |    |    | 11.0 | 110SDMN | SILT |   |
|       |      |    |    | 16.0 | 112TILL | TILL | Sandy   |
| PCB 2 | 25.0 | -- | -- | 0.0  | 110SDMN | SAND | Gravel  |
|       |      |    |    | 5.0  | 112SRFD | SAND | Gravel  |
|       |      |    |    | 10.0 | 112SRFD | SILT | Clay  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|

Hillsborough County

Peterborough--Continued

|        |      |      |      |      |         |         |                                |                                 |
|--------|------|------|------|------|---------|---------|--------------------------------|---------------------------------|
| PCB 3  | --   | 25.0 | --   | 0.0  | 110SDMN | SDGL    | Boulders                       |                                 |
|        |      |      |      | 5.7  | 112TILL | TILL    | Sand, gravel, till             |                                 |
|        |      |      |      | 11.5 |         |         | TILL                           |                                 |
| PCB 4  | 15.0 | --   | --   | 0.0  | 110SDMN | SDGL    | Boulders                       |                                 |
|        |      |      |      | --   |         |         |                                |                                 |
|        |      |      |      | --   | 110SDMN | SAND    | Gravel, boulders               |                                 |
|        |      |      |      | 5.7  | 112TILL | TILL    | Sandy, gravelly                |                                 |
| PCB 5  | --   | 35.6 | --   | 0.0  | 110SDMN | SAND    | Fine, loamy                    |                                 |
|        |      |      |      | 2.5  | 112SRFD | SDGL    | Coarse                         |                                 |
|        |      |      |      | 15.0 | 22.0    | 112SRFD | SAND                           | Fine                            |
|        |      |      |      | 22.0 | 112SRFD | SDGL    | Fine to coarse                 |                                 |
|        |      |      |      | 28.0 | 112TILL | TILL    | Boulders, silty, gravelly sand |                                 |
|        |      |      |      | 35.6 | BEDROCK |         |                                |                                 |
| PCB 6  | 29.0 | --   | --   | 0.0  | 112SRFD | GRVL    | Sandy, boulders                |                                 |
|        |      |      |      | 13.0 | 112TILL | TILL    | Sandy                          |                                 |
| PCB 7  | 25.0 | --   | 25.0 | 0.0  | 111FILL | SDST    | Gravel                         |                                 |
|        |      |      |      | 5.0  | 112SRFD | BLSO    |                                |                                 |
|        |      |      |      | 11.0 | 15.0    | 112SRFD | GROS                           | Coarse                          |
|        |      |      |      | 15.0 | 16.0    | 112SRFD | SAND                           | Fine, dense                     |
|        |      |      |      | 16.0 | 20.0    | 112TILL | SILT                           | Coarse sand, gravel, trace clay |
|        |      |      |      | 20.0 | 22.5    | 112TILL | COBB                           | Boulders                        |
|        |      |      |      | 22.5 | 112TILL | SILT    | Sandy, dense, with cobbles     |                                 |
| PCB 8  | 3.0  | --   | --   | 0.0  | 110SDMN |         |                                |                                 |
|        |      |      |      | 3.0  | BEDROCK | ROCK    |                                |                                 |
| PCB 9  | 4.0  | --   | --   | 0.0  | 110SDMN |         |                                |                                 |
|        |      |      |      | 4.0  | BEDROCK | ROCK    |                                |                                 |
| PCB 10 | 28.7 | --   | --   | 0.0  | 110SOIL | SOIL    |                                |                                 |
|        |      |      |      | 0.5  | 10.0    | 112SRFD | SDGL                           | Fine                            |
|        |      |      |      | 10.0 | 15.0    | 112SRFD | CLSD                           |                                 |
|        |      |      |      | 15.0 | 28.7    | 112SRFD | SDGL                           | Medium, handpacked clay         |
|        |      |      |      | 28.7 | BEDROCK | ROCK    |                                |                                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well refusal (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Aquifer code | Lithologic code | Description of material                         |
|-------------------------|----------------------|------------------------------|------------------------|-----------------------------|--------------|-----------------|---|
| Hillsborough County     |                      |                              |                        |                             |              |                 |   |
| Peterborough--Continued |                      |                              |                        |                             |              |                 |   |
| PCB 11                  | 25.5                 | --                           | 0.0                    | 25.5                        | 112TILL      | SDCL            | Hardpacked                                      |
|                         |                      |                              |                        |                             |              |                 | BEDROCK ROCK                                    |
| PCB 12                  | 41.5                 | --                           | 0.0                    | 41.5                        | 112SRFD      | SDCL            |   |
|                         |                      |                              | 6.0                    | 32.0                        | 112SRFD      | CLAY            |   |
|                         |                      |                              | 32.0                   | 36.0                        | 112SRFD      | SDGL            | Coarse  |
|                         |                      |                              |                        |                             |              |                 | Hardpacked                                      |
| PCB 13                  | 19.0                 | --                           | 0.0                    | 19.0                        | 110SOIL      | SOIL            |   |
|                         |                      |                              | 2.0                    | 14.0                        | 112SRFD      | SAND            | Muddy   |
|                         |                      |                              | 14.0                   | 19.0                        | 112SRFD      | SAND            | Hardpacked                                      |
|                         |                      |                              |                        |                             |              |                 | BEDROCK ROCK                                    |
| PCB 14                  | 36.3                 | --                           | 0.0                    | 36.3                        | 111SWMP      | MUCK            |   |
|                         |                      |                              | 1.5                    | 6.2                         | 112SRFD      | SAND            | Fine to coarse, scattered cobbles               |
|                         |                      |                              | 6.2                    | 21.1                        | 112SRFD      | SDGL            | Silty, trace clay, scattered cobbles            |
|                         |                      |                              |                        |                             |              |                 | BEDROCK ROCK                                    |
| PCB 15                  | 22.0                 | --                           | 0.0                    | 22.0                        | 112SRFD      | GRVL            | Slightly sandy, cobbles, boulders               |
|                         |                      |                              | 3.2                    | 6.6                         | 112SRFD      | SDST            | Slightly gravelly, scattered cobbles            |
|                         |                      |                              | 6.6                    | 9.0                         | 112SRFD      | SDST            | Compact, slightly gravelly                      |
|                         |                      |                              |                        |                             |              |                 | BEDROCK ROCK                                    |
| PCB 16                  | 100.0                | --                           | 0.0                    | 100.0                       | 110SOIL      | SOIL            |   |
|                         |                      |                              | 2.0                    | 9.2                         | 112SRFD      | SAND            | Gravel, silt, scattered cobbles                 |
|                         |                      |                              | 9.2                    | 62.0                        | 112SRFD      | SAND            | Silty, trace clay and gravel                    |
|                         |                      |                              | 62.0                   | 80.0                        | 112SRFD      | SILT            | Sandy, clayey, compact                          |
|                         |                      |                              |                        |                             |              |                 | 112SRFD SAND Silt, clay, little gravel, compact |
| PCB 3                   | --                   | 170.0                        | --                     | 67.0                        |              |                 | BEDROCK ROCK --                                 |
| PCB 4                   | --                   | 265.0                        | --                     | 145.0                       |              |                 | BEDROCK ROCK --                                 |
| PCB 6                   | --                   | 227.0                        | --                     | 25.0                        |              |                 | BEDROCK ROCK --                                 |
| PCB 8                   | --                   | 295.0                        | --                     | 12.0                        |              |                 | BEDROCK ROCK --                                 |
| PCB 10                  | --                   | 87.0                         | --                     | 30.0                        |              |                 | BEDROCK ROCK --                                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well refusal (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom (feet) | Aquifer code | Lithologic code | Description of material       |
|-------------------------|----------------------|------------------------------|-------------------------|---------------------|------------------------|--------------|-----------------|-------------------------------|
| Hillsborough County     |                      |                              |                         |                     |                        |              |                 |                               |
| Peterborough--Continued |                      |                              |                         |                     |                        |              |                 |                               |
| PCW 11                  | --                   | 160.0                        | --                      | 13.0                | --                     | BEDROCK      | ROCK            | --                            |
| PCW 12                  | --                   | 220.0                        | --                      | 98.0                | --                     | BEDROCK      | ROCK            | --                            |
| PCW 13                  | --                   | 252.0                        | --                      | 105.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 15                  | --                   | 244.0                        | --                      | 150.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 16                  | --                   | 203.0                        | --                      | 68.0                | --                     | BEDROCK      | ROCK            | --                            |
| PCW 19                  | --                   | 122.0                        | --                      | 15.0                | --                     | BEDROCK      | ROCK            | --                            |
| PCW 23                  | --                   | 265.0                        | --                      | 115.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 25                  | --                   | 104.0                        | --                      | 10.0                | --                     | BEDROCK      | ROCK            | --                            |
| PCW 27                  | --                   | 382.0                        | --                      | 240.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 28                  | --                   | 245.0                        | --                      | 115.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 30                  | --                   | 190.0                        | --                      | 100.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 32                  | --                   | 170.0                        | --                      | 118.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 33                  | --                   | 153.0                        | --                      | 9.0                 | --                     | BEDROCK      | ROCK            | --                            |
| PCW 34                  | --                   | 400.0                        | --                      | 125.0               | --                     | BEDROCK      | ROCK            | --                            |
| PCW 36                  | 51.0                 | --                           | 51.0                    | 0.0                 | 5.0                    | 112SRFD      | SAND            | Medium, some silt             |
|                         |                      |                              |                         | 5.0                 | 8.5                    | 112SRFD      | SDST            | Gravel and boulders           |
|                         |                      |                              |                         | 8.5                 | 15.0                   | 112SRFD      | SDGL            | Medium                        |
|                         |                      |                              |                         | 15.0                | 19.0                   | 112SRFD      | SDGL            | Coarse                        |
|                         |                      |                              |                         | 19.0                | 24.0                   | 112SRFD      | SDGL            | Fine gravel                   |
|                         |                      |                              |                         | 24.0                | 29.0                   | 112SRFD      | SDGL            | Coarse, silty                 |
|                         |                      |                              |                         | 29.0                | 32.0                   | 112SRFD      | SDST            | Medium, dense                 |
|                         |                      |                              |                         | 32.0                | 34.0                   | 112SRFD      | SDGL            | Medium, with silt and cobbles |
|                         |                      |                              |                         | 34.0                | 36.0                   | 112SRFD      | SILT            | Fine gravel                   |
|                         |                      |                              |                         | 36.0                | 39.0                   | 112SRFD      | GRVL            | Fine, and coarse sand         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|

Hillsborough County

Peterborough--Continued

|                   |      |      |      |      |      |         |                                      |
|-------------------|------|------|------|------|------|---------|--------------------------------------|
| PCW 36--Continued |      |      |      |      |      |         |                                      |
|                   | 39.0 | 64.0 | --   | 0.0  | 43.5 | 112SRFD | SAND Medium-coarse, dense            |
|                   | 43.5 | 44.5 |      | 5.0  | 44.5 | 112SRFD | COBB                                 |
|                   | 44.5 | 46.5 |      | 17.0 | 46.5 | 112SRFD | SDST Fine, dense                     |
|                   | 46.5 | 48.0 |      | 19.0 | 48.0 | 112SRFD | SDST Gravel                          |
|                   | 48.0 | --   |      | --   | --   | 112SRFD | GRVL Angular, hard, cobbley          |
| PCW 38            | 64.0 | --   | 64.0 | 0.0  | 2.0  | 112SRFD | SDST Fine                            |
|                   |      |      |      | 2.0  | 5.0  | 112SRFD | BLDR                                 |
|                   |      |      |      | 5.0  | 7.0  | 112SRFD | SILT Medium sand, pebbles, cobbles   |
|                   |      |      |      | 7.0  | 9.0  | 112SRFD | BLSD Gravel                          |
|                   |      |      |      | 9.0  | 14.0 | 112SRFD | SAND Medium to coarse                |
|                   |      |      |      | 14.0 | 17.0 | 112SRFD | SAND Fine to medium, clean, loose    |
|                   |      |      |      | 17.0 | 19.0 | 112SRFD | SAND Fine, some silt                 |
|                   |      |      |      | 19.0 | 28.0 | 112SRFD | SAND Medium to fine                  |
|                   |      |      |      | 28.0 | 32.0 | 112SRFD | SAND Medium                          |
|                   |      |      |      | 32.0 | 35.0 | 112SRFD | SDGL Fine to coarse                  |
|                   |      |      |      | 35.0 | 36.0 | 112SRFD | GRVL Fine, clean                     |
|                   |      |      |      | 36.0 | 39.0 | 112SRFD | SAND Coarse                          |
|                   |      |      |      | 39.0 | 44.0 | 112SRFD | SDGL Coarse                          |
|                   |      |      |      | 44.0 | 45.0 | 112SRFD | SDST Fine                            |
|                   |      |      |      | 45.0 | 46.5 | 112SRFD | SDGL Coarse                          |
|                   |      |      |      | 46.5 | 56.0 | 112SRFD | SAND Medium                          |
|                   |      |      |      | 56.0 | 60.0 | 112SRFD | SAND Coarse, some gravel             |
|                   |      |      |      | 60.0 | --   | 112SRFD | SAND Medium to coarse, dense, clean  |
| PCW 40            | 61.0 | --   | 61.0 | 0.0  | 6.0  | 112SRFD | SDST Fine, with cobbles              |
|                   |      |      |      | 6.0  | 9.0  | 112SRFD | SDGL Coarse, cobbles and boulders    |
|                   |      |      |      | 9.0  | 15.5 | 112SRFD | SDGL Coarse                          |
|                   |      |      |      | 15.5 | 25.0 | 112SRFD | SAND Fine, loose                     |
|                   |      |      |      | 25.0 | 27.0 | 112SRFD | SAND Medium, some gravel, fines down |
|                   |      |      |      | 27.0 | 30.0 | 112SRFD | SAND Fine                            |
|                   |      |      |      | 30.0 | 34.0 | 112SRFD | SDGL Coarse, cobbles                 |
|                   |      |      |      | 34.0 | 35.0 | 112SRFD | COBB                                 |
|                   |      |      |      | 35.0 | 39.0 | 112SRFD | GRVL Dense, sandy, some silt         |
|                   |      |      |      | 39.0 | 42.5 | 112SRFD | SDGL Angular cobbles, some silt      |
|                   |      |      |      | 42.5 | 45.0 | 112SRFD | GRVL Fine                            |
|                   |      |      |      | 45.0 | 50.0 | 112SRFD | GRDS Cobbley                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|

Hillsborough County

Peterborough--Continued

|                   |      |      |      |      |      |         |                                    |
|-------------------|------|------|------|------|------|---------|------------------------------------|
| PCW 40--Continued |      |      |      |      |      |         |                                    |
|                   | 50.0 | 53.0 |      | 53.0 | 53.0 | 112SRFD | SILT Dense, with sand and gravel   |
|                   | 53.0 | 55.0 |      | 55.0 | 55.0 | 112SRFD | COBB                               |
|                   | 55.0 | 57.0 |      | 57.0 | 57.0 | 112TILL | CLAY Hard, silty                   |
|                   | 57.0 | 60.0 |      | 60.0 | 60.0 | 112SRFD | GRVL Angular, dense                |
|                   | 60.0 | --   |      | --   | --   | 112TILL | STCL Coarse broken rock            |
| PCW 42            | 53.5 | --   | 53.5 | 0.0  | 5.0  | 110SOIL | SOIL Sand and cobbles              |
|                   |      |      |      | 5.0  | 8.0  | 112SRFD | SDGL                               |
|                   |      |      |      | 8.0  | 10.0 | 112SRFD | COBB                               |
|                   |      |      |      | 10.0 | 12.0 | 112SRFD | SAND Fine to medium, little silt   |
|                   |      |      |      | 12.0 | 20.0 | 112SRFD | SAND Fine, loose                   |
|                   |      |      |      | 20.0 | 25.0 | 112SRFD | SAND Fine, some medium gravel      |
|                   |      |      |      | 25.0 | 28.0 | 112SRFD | SDGL Fine, some silt               |
|                   |      |      |      | 28.0 | 36.0 | 112SRFD | SDGL Alternating layers, some silt |
|                   |      |      |      | 36.0 | 40.0 | 112SRFD | GRVL                               |
|                   |      |      |      | 40.0 | 52.0 | 112SRFD | SAND Fine to coarse, dense         |
|                   |      |      |      | 52.0 | --   | 112SRFD | COBD                               |
| PCW 44            | 53.0 | 22.0 | --   | 0.0  | 7.7  | 112SRFD | GRVL Sandy                         |
|                   |      |      |      | 7.7  | 12.5 | 112SRFD | SAND Medium to coarse              |
|                   |      |      |      | 12.5 | 16.0 | 112SRFD | SAND Medium to coarse, fines down  |
|                   |      |      |      | 16.0 | 23.2 | 112SRFD | SAND Fines down                    |
|                   |      |      |      | 23.2 | 28.2 | 112SRFD | SDST Little clay                   |
|                   |      |      |      | 28.2 | 32.5 | 112TILL | CLAY Little silt                   |
|                   |      |      |      | 32.5 | 37.2 | 112TILL | CLAY                               |
|                   |      |      |      | 37.2 | 42.6 | 112SRFD | SGVC                               |
|                   |      |      |      | 42.6 | --   | 112TILL | TILL                               |
| PCW 45            | 28.2 | 22.0 | --   | 0.0  | 6.5  | 110SDMH | GRVL Coarse, sandy                 |
|                   |      |      |      | 6.5  | 12.6 | 112SRFD | SAND Medium, fining down           |
|                   |      |      |      | 12.6 | 16.8 | 112SRFD | SAND Medium, fining down           |
|                   |      |      |      | --   | --   | 110SDMH |                                    |
|                   |      |      |      | 19.6 | 22.2 | 112SRFD | SAND Fine                          |
|                   |      |      |      | 22.2 | --   | 112SRFD | SILT                               |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet)                     | Aquifer code   | Lithologic code  | Description of material |
|-------------------------|----------------------|----------------------|-------------------------|--|--|--|-------------------------|
| Hillsborough County     |                      |                      |                         |  |  |  |                         |
| Peterborough--Continued |                      |                      |                         |  |  |  |                         |
| PCW 46                  | 27.2                 | 22.8                 | --                      | 0.0<br>6.9<br>11.5<br>16.4<br>17.0<br>20.0<br>22.9 | 110SDM<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD | LOAM Gravelly<br>SAND Medium, grading down to fine<br>SAND Fine, banded<br>SBST<br>SILT Dense<br>STCL Fines down<br>CLAY Silty |                         |
| PCW 47                  | 20.0                 | 17.0                 | --                      | 0.0<br>5.0<br>7.5<br>12.3<br>17.8                  | 111FILL<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD                      | SDGL<br>SAND Coarse over medium<br>SAND Fine, grading down to silt<br>CLAY Silty<br>CLAY Silty stringers                       |                         |
| PCW 48                  | 17.6                 | --                   | --                      | 0.0<br>7.5<br>12.3                                 | 112SRFD<br>112SRFD<br>112SRFD  | SAND Coarse<br>CLAY<br>CLAY Silt stringers   |                         |
| PCW 49                  | 21.2                 | 21.2                 | --                      | 0.0<br>7.1<br>12.5<br>15.2<br>16.2                 | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD                      | SAND Gravelly<br>SAND Medium to coarse<br>SAND Medium over fine<br>CLAY Brown<br>CLAY Green-gray                               |                         |
| PCW 50                  | 51.0                 | 40.0                 | 51.0                    | 0.0<br>2.0<br>10.0<br>37.0<br>40.0                 | 110SOIL<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD                      | SOIL<br>SAND Medium<br>SAND Coarse<br>SAND Medium<br>SDCL  |                         |
| PCW 51                  | 43.6                 | 35.0                 | 43.6                    | 0.0<br>4.0<br>10.0<br>18.0<br>25.0<br>36.0         | 110SOIL<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD           | SOIL<br>SDGL<br>SAND Medium<br>SAND Coarse<br>SDGL Fine<br>SAND Fine silty quicksand   |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet)              | Aquifer code   | Lithologic code   | Description of material |
|-------------------------|----------------------|----------------------|-------------------------|---|--|---|-------------------------|
| Hillsborough County     |                      |                      |                         |   |  |   |                         |
| Peterborough--Continued |                      |                      |                         |   |  |   |                         |
| PCW 52                  | 70.0                 | 70.0                 | 70.0                    | 0.0<br>18.0<br>37.0<br>50.0<br>65.0         | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD            | SDGL Medium<br>SAND Medium<br>SAND Fine<br>SAND Medium<br>SAND Coarse   |                         |
| PCW 53                  | 32.5                 | --                   | --                      | 0.0<br>1.0<br>15.0<br>32.5                  | 110SOIL<br>112SRFD<br>112SRFD<br>112SRFD                       | SOIL<br>SAND Medium<br>SAND Coarse<br>BEDROCK ROCK  |                         |
| PCW 54                  | 68.0                 | --                   | 68.0                    | 0.0<br>10.0<br>20.0<br>55.0<br>60.0<br>65.0 | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD | SAND Medium, silty<br>SAND Silty<br>SAND Silty, trace clay<br>SDGL Medium, trace clay<br>SDGL<br>CLAY Hardpan |                         |
| PCW 55                  | 55.0                 | --                   | 55.0                    | 0.0<br>10.0<br>20.0<br>30.0<br>50.0         | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD            | SDGL Coarse<br>SDGL Coarse<br>SDGL Coarse<br>SDGL Medium<br>SDGL Medium to coarse                             |                         |
| PCW 56                  | 67.0                 | --                   | 67.0                    | 0.0<br>20.0<br>40.0<br>55.0<br>65.0         | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD<br>112SRFD            | SDGL Medium<br>SDGL Coarse gravel<br>SDGL Medium<br>SDGL Coarse gravel<br>SDGL Medium                         |                         |
| PCW 57                  | 65.0                 | --                   | 65.0                    | 0.0<br>10.0<br>25.0<br>60.0                 | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD                       | SAND Silty/coarse<br>SDGL Medium<br>SDGL Coarse gravel<br>SDGL Medium   |                         |
| PCW 58                  | 61.0                 | --                   | 61.0                    | 0.0<br>10.0<br>20.0<br>35.0                 | 112SRFD<br>112SRFD<br>112SRFD<br>112SRFD                       | SAND Medium<br>SDCL Silty<br>SDCL   |                         |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code               | Description of material |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--------------------------------|-------------------------|
| Hillsborough County     |                      |                      |                             |                                |              |                                |                         |
| Peterborough--Continued |                      |                      |                             |                                |              |                                |                         |
| PCW 58--Continued       |                      |                      |                             |                                |              |                                |                         |
|                         |                      | 35.0                 |                             | 40.0                           | 112SRFD      | SOVC Coarse                    |                         |
|                         |                      | 40.0                 |                             | 55.0                           | 112SRFD      | SDGL Medium                    |                         |
|                         |                      | 55.0                 |                             | 60.0                           | 112SRFD      | SDGL Coarse                    |                         |
|                         |                      | 60.0                 |                             | --                             | 112SRFD      | GRVL Coarse                    |                         |
| PCW 59                  | 73.0                 | --                   | 73.0                        | 10.0                           | 112SRFD      | SDGL Medium                    |                         |
|                         |                      | 10.0                 |                             | 20.0                           | 112SRFD      | SDGL Trace clay                |                         |
|                         |                      | 20.0                 |                             | 30.0                           | 112SRFD      | CLAY                           |                         |
|                         |                      | 30.0                 |                             | 35.0                           | 112SRFD      | CLSD                           |                         |
|                         |                      | 35.0                 |                             | 40.0                           | 112SRFD      | SAND Medium                    |                         |
|                         |                      | 40.0                 |                             | 55.0                           | 112SRFD      | SDGL Medium                    |                         |
|                         |                      | 55.0                 |                             | 65.0                           | 112SRFD      | SAND Medium                    |                         |
|                         |                      | 65.0                 |                             | 70.0                           | 112SRFD      | SDGL                           |                         |
|                         |                      | 70.0                 |                             | --                             | 112TILL      | CLAY Hardpan                   |                         |
| PCW 60                  | 80.0                 | --                   | 80.0                        | 10.0                           | 112SRFD      | SDGL Medium                    |                         |
|                         |                      | 10.0                 |                             | 20.0                           | 112SRFD      | SGVC Medium                    |                         |
|                         |                      | 20.0                 |                             | 45.0                           | 112SRFD      | CLAY                           |                         |
|                         |                      | 45.0                 |                             | 50.0                           | 112SRFD      | CLSD Silty                     |                         |
|                         |                      | 50.0                 |                             | 60.0                           | 112SRFD      | SDGL Fine sand/coarse gravel   |                         |
|                         |                      | 60.0                 |                             | 65.0                           | 112SRFD      | SDGL Medium                    |                         |
|                         |                      | 65.0                 |                             | 70.0                           | 112SRFD      | SDGL Medium sand/coarse gravel |                         |
|                         |                      | 70.0                 |                             | --                             | 112TILL      | CLAY Hardpan                   |                         |
| PCW 61                  | 53.0                 | 40.0                 | 53.0                        | 10.0                           | 112SRFD      | SDGL Coarse                    |                         |
|                         |                      | 10.0                 |                             | 20.0                           | 112SRFD      | SGVC Coarse                    |                         |
|                         |                      | 20.0                 |                             | 30.0                           | 112SRFD      | CLAY                           |                         |
|                         |                      | 30.0                 |                             | 50.0                           | 112SRFD      | SDGL Medium sand/coarse gravel |                         |
|                         |                      | 50.0                 |                             | --                             | 112SRFD      | SDGL Coarse                    |                         |
| PCW 62                  | 41.0                 | --                   | 44.0                        | 10.0                           | 112SRFD      | SDGL Medium                    |                         |
|                         |                      | 10.0                 |                             | 20.0                           | 112SRFD      | SGVC Medium                    |                         |
|                         |                      | 20.0                 |                             | 30.0                           | 112SRFD      | CLAY                           |                         |
|                         |                      | 30.0                 |                             | 35.0                           | 112SRFD      | SGVC Coarse                    |                         |
|                         |                      | 35.0                 |                             | --                             | 112SRFD      | SDGL Coarse                    |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code                      | Description of material |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|---------------------------------------|-------------------------|
| Hillsborough County     |                      |                      |                             |                                |              |                                       |                         |
| Peterborough--Continued |                      |                      |                             |                                |              |                                       |                         |
| PCW 63                  | 28.0                 | --                   | 28.0                        | 0.0                            | 112SRFD      | SDGL Coarse                           |                         |
|                         |                      |                      | 20.0                        | --                             | 112SRFD      | SDGL Trace clay                       |                         |
| PCW 64                  | 10.0                 | --                   | 10.0                        | 0.0                            | 112SRFD      | CLAY                                  | Clay and coarse gravel  |
| PCW 65                  | 32.0                 | --                   | 32.0                        | 0.0                            | 112SRFD      | SDGL Medium                           |                         |
|                         |                      |                      | 20.0                        | 25.0                           | 112SRFD      | SDGL Medium, and fine sand            |                         |
|                         |                      |                      | 25.0                        | 30.0                           | 112SRFD      | SAND Fine, and coarse sand and gravel |                         |
|                         |                      |                      | 30.0                        | --                             | 112TILL      | CLAY Hardpan                          |                         |
| PCW 66                  | 71.0                 | --                   | --                          | 0.0                            | 112SRFD      | BLDR                                  |                         |
|                         |                      |                      | 5.0                         | 15.0                           | 112SRFD      | SGVC Silty, sharp broken stone        |                         |
|                         |                      |                      | 15.0                        | 25.0                           | 112SRFD      | CLAY Streaks of sand                  |                         |
|                         |                      |                      | 25.0                        | 45.0                           | 112SRFD      | SAND Streaks of clay                  |                         |
|                         |                      |                      | 45.0                        | 50.0                           | 112SRFD      | SAND                                  |                         |
|                         |                      |                      | 50.0                        | 55.0                           | 112SRFD      | SDGL                                  |                         |
|                         |                      |                      | 55.0                        | 65.0                           | 112SRFD      | SAND some medium gravel               |                         |
|                         |                      |                      | 65.0                        | --                             | 112SRFD      | SDGL                                  |                         |
| PCW 67                  | 34.0                 | --                   | 34.0                        | 0.0                            | 112SRFD      | SAND Silty                            |                         |
|                         |                      |                      | 10.1                        | 15.2                           | 112SRFD      | SDGL Coarse                           |                         |
|                         |                      |                      | 15.2                        | 20.3                           | 112SRFD      | SDGL Coarse, trace clay               |                         |
|                         |                      |                      | 20.3                        | --                             | 112TILL      | CLAY Streaks of sand and gravel       |                         |
| PCW 68                  | --                   | 600.0                | --                          | 0.0                            | 110SDMN      | ROCK                                  |                         |
|                         |                      |                      | 190.0                       | --                             | BEDROCK      | ROCK                                  |                         |
| PCW 69                  | 14.0                 | --                   | --                          | 0.0                            | 112SRFD      | SDGL Silty, trace clay                |                         |
| PCW 70                  | 31.0                 | --                   | 31.0                        | 0.0                            | 112SRFD      | SGVC                                  |                         |
|                         |                      |                      | 5.0                         | --                             | 112SRFD      | SAND some gravel and boulders         |                         |
| PCW 71                  | 70.5                 | --                   | --                          | 0.0                            | 112SRFD      | GRVL Sand                             |                         |
|                         |                      |                      | 18.0                        | 28.0                           | 112SRFD      | CLAY                                  |                         |
|                         |                      |                      | 28.0                        | 44.0                           | 112SRFD      | SDGL                                  |                         |
|                         |                      |                      | 44.0                        | 54.0                           | 112SRFD      | SDGL                                  |                         |
|                         |                      |                      | 54.0                        | 62.0                           | 112SRFD      | SDGL                                  |                         |
|                         |                      |                      | 62.0                        | --                             | 112SRFD      | BLSD Gravel                           |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth to well refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material | Depth                                  |                          | Lithologic code | Description of material |  |
|-------------------------|----------------------|------------------------------|-----------------------------|--------------------------------|-----------------|-------------------------|--|--------------------------|-----------------|-------------------------|--|
|                         |                      |                              |                             |                                |                 |                         | to top of unit (feet)                  | to bottom of unit (feet) |                 |                         |  |
| Hillsborough County     |                      |                              |                             |                                |                 |                         |  |                          |                 |                         |  |
| Peterborough--Continued |                      |                              |                             |                                |                 |                         |  |                          |                 |                         |  |
| PCW 72                  | 18.5                 | 18.5                         | 0.0                         | 7.0                            | 112SRFD         | SAND                    | Fine to coarse, little silt and gravel |                          |                 |                         |  |
|                         |                      |                              | 7.0                         | 15.0                           | 112SRFD         | SILT                    | clayey                                 |                          |                 |                         |  |
|                         |                      |                              | 15.0                        | --                             | 112TILL         | SAND                    | Dense, little silt and gravel          |                          |                 |                         |  |
| PCW 73                  | --                   | 500.0                        | 0.0                         | 8.0                            | 112TILL         | TILL                    |  |                          |                 |                         |  |
|                         |                      |                              | 8.0                         | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 74                  | --                   | 520.0                        | 0.0                         | 5.0                            | 112TILL         | TILL                    |  |                          |                 |                         |  |
|                         |                      |                              | 5.0                         | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 75                  | --                   | 200.0                        | 0.0                         | --                             | 110SDMN         | SAND                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    | Gravel, hardpan                        |                          |                 |                         |  |
|                         |                      |                              | 75.0                        | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 76                  | --                   | 300.0                        | 0.0                         | --                             | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 110SDMN         | CLAY                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
| PCW 77                  | --                   | 605.0                        | 0.0                         | 0.0                            | 110SDMN         | CLAY                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    | clay, hardpan                          |                          |                 |                         |  |
|                         |                      |                              | 310.0                       | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 78                  | --                   | 160.0                        | 0.0                         | 15.0                           | 110SDMN         | CLAY                    |  |                          |                 |                         |  |
|                         |                      |                              | 15.0                        | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 79                  | --                   | 405.0                        | 0.0                         | 10.0                           | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
|                         |                      |                              | 10.0                        | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 80                  | --                   | 385.0                        | 70.0                        | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 81                  | --                   | 300.0                        | 210.0                       | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |
| PCW 82                  | --                   | 250.0                        | 0.0                         | --                             | 110SDMN         | SDGL                    |  |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    |  |                          |                 |                         |  |
|                         |                      |                              | 100.0                       | --                             | BEDROCK         | ROCK                    |  |                          |                 |                         |  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material | Depth                 |                          | Lithologic code | Description of material |  |
|-------------------------|----------------------|------------------------------|-----------------------------|--------------------------------|-----------------|-------------------------|-----------------------|--------------------------|-----------------|-------------------------|--|
|                         |                      |                              |                             |                                |                 |                         | to top of unit (feet) | to bottom of unit (feet) |                 |                         |  |
| Hillsborough County     |                      |                              |                             |                                |                 |                         |                       |                          |                 |                         |  |
| Peterborough--Continued |                      |                              |                             |                                |                 |                         |                       |                          |                 |                         |  |
| PCW 83                  | --                   | 300.0                        | 0.0                         | --                             | 112TILL         | TILL                    | Clay, hardpan         |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 110SDMN         | SDGL                    |                       |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    | Clay, hardpan         |                          |                 |                         |  |
|                         |                      |                              | 75.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 84                  | --                   | 300.0                        | 0.0                         | --                             | 112TILL         | TILL                    | Sand, hardpan         |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    |                       |                          |                 |                         |  |
|                         |                      |                              | 35.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 85                  | --                   | 500.0                        | 0.0                         | 9.0                            | 112TILL         | TILL                    |                       |                          |                 |                         |  |
|                         |                      |                              | 9.0                         | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 86                  | --                   | 450.0                        | 105.0                       | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 87                  | --                   | 450.0                        | 0.0                         | --                             | 110SDMN         | SDGL                    |                       |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    |                       |                          |                 |                         |  |
|                         |                      |                              | --                          | --                             | 112TILL         | TILL                    | Sand, hardpan         |                          |                 |                         |  |
|                         |                      |                              | 155.0                       | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 88                  | --                   | 460.0                        | 0.0                         | 150.0                          | 110SDMN         | CLAY                    |                       |                          |                 |                         |  |
|                         |                      |                              | 150.0                       | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 89                  | --                   | 170.0                        | 0.0                         | 26.0                           | 112TILL         | TILL                    |                       |                          |                 |                         |  |
|                         |                      |                              | 26.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 90                  | --                   | 705.0                        | 0.0                         | 26.0                           | 110SDMN         | SGVC                    |                       |                          |                 |                         |  |
|                         |                      |                              | 26.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 91                  | --                   | 205.0                        | 0.0                         | 30.0                           | 110SDMN         | CLAY                    |                       |                          |                 |                         |  |
|                         |                      |                              | 30.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 92                  | --                   | 160.0                        | 19.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 93                  | --                   | 205.0                        | 0.0                         | 16.0                           | 110SDMN         | CLAY                    |                       |                          |                 |                         |  |
|                         |                      |                              | 16.0                        | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |
| PCW 94                  | --                   | 240.0                        | 0.0                         | 123.0                          | 110SDMN         | CLAY                    |                       |                          |                 |                         |  |
|                         |                      |                              | 123.0                       | --                             | BEDROCK         | ROCK                    |                       |                          |                 |                         |  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Acquirer code | Litho-logic code                             | Description of material |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|---------------|--|-------------------------|
| Hillsborough County     |                      |                      |                             |                                |               |  |                         |
| Peterborough--Continued |                      |                      |                             |                                |               |  |                         |
| PCW 95                  | --                   | 145.0                | --                          | 0.0                            | 25.0          | 110SDMN SDGL<br>BEDROCK ROCK                 |                         |
| PCW 96                  | --                   | 216.0                | --                          | 0.0                            | 54.0          | 110SDMN SDGL<br>BEDROCK ROCK                 |                         |
| PCW 97                  | --                   | 85.0                 | --                          | 0.0                            | 10.0          | 110SDMN SDGL<br>BEDROCK ROCK                 |                         |
| PCW 98                  | --                   | 550.0                | --                          | 53.0                           | --            | BEDROCK ROCK                                 |                         |
| PCW 99                  | --                   | 300.0                | --                          | 0.0                            | 105.0         | 110SDMN CLAY<br>BEDROCK ROCK                 |                         |
| PCW 100                 | --                   | 600.0                | --                          | 50.0                           | --            | BEDROCK ROCK                                 |                         |
| PCW 101                 | --                   | 300.0                | --                          | 0.0                            | --            | 112TILL TILL<br>110SDMN SDGL<br>BEDROCK ROCK | Clay, hardpan           |
| PCW 102                 | --                   | 250.0                | --                          | 15.0                           | --            | BEDROCK ROCK                                 |                         |
| PCW 103                 | --                   | 500.0                | --                          | 110.0                          | --            | BEDROCK ROCK                                 |                         |
| PCW 104                 | --                   | 325.0                | --                          | 100.0                          | --            | BEDROCK ROCK                                 |                         |
| PCW 105                 | --                   | 300.0                | --                          | 100.0                          | --            | BEDROCK ROCK                                 |                         |
| PCW 106                 | --                   | 250.0                | --                          | 40.0                           | --            | BEDROCK ROCK                                 |                         |
| PCW 107                 | --                   | 292.0                | --                          | 0.0                            | 60.0          | 110SDMN CLAY<br>BEDROCK ROCK                 |                         |
| PCW 108                 | --                   | 380.0                | --                          | 125.0                          | --            | BEDROCK ROCK                                 |                         |
| PCW 110                 | --                   | 215.0                | --                          | 0.0                            | 6.0           | 110SDMN SDGL<br>BEDROCK ROCK                 |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number       | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Acquirer code | Litho-logic code   | Description of material  |
|-------------------------|----------------------|----------------------|-----------------------------|--------------------------------|---------------|--|--|
| Hillsborough County     |                      |                      |                             |                                |               |  |  |
| Peterborough--Continued |                      |                      |                             |                                |               |  |  |
| PCW 111                 | --                   | 165.0                | --                          | 0.0                            | 100.0         | 112TILL TILL<br>BEDROCK ROCK   |  |
| PCW 112                 | --                   | 118.0                | --                          | 0.0                            | 25.0          | 110SDMN SAND<br>BEDROCK ROCK   |  |
| PCW 113                 | --                   | 400.0                | --                          | 0.0                            | 93.0          | 112TILL TILL<br>BEDROCK ROCK   |  |
| PCW 114                 | --                   | 350.0                | --                          | 0.0                            | 170.0         | 110SDMN SOVC<br>BEDROCK ROCK   |  |
| PCW 115                 | --                   | 165.0                | --                          | 20.0                           | --            | BEDROCK ROCK   |  |
| PCW 116                 | --                   | 300.0                | --                          | 0.0                            | 90.0          | 110SDMN SDGL<br>BEDROCK ROCK   |  |
| PCW 118                 | --                   | 285.0                | --                          | 140.0                          | --            | BEDROCK ROCK   |  |
| PCW 119                 | --                   | 385.0                | --                          | 0.0                            | --            | 110SDMN SDGL<br>112TILL TILL<br>BEDROCK ROCK   | Clay, hardpan  |
| PCW 120                 | --                   | 350.0                | --                          | 4.0                            | --            | BEDROCK ROCK   |  |
| PCW 121                 | --                   | 425.0                | --                          | 0.0                            | 110.0         | 110SDMN SAND<br>BEDROCK ROCK   |  |
| PCW 125                 | --                   | 60.0                 | --                          | 0.0                            | 5.0           | 112SRFD GRVL<br>112SRFD SDCL<br>112SRFD CLAY<br>112SRFD CLAY<br>112SRFD CLAY<br>HRDP Hardpan<br>112SRFD GRVL<br>112SRFD SAND | Brown, medium gravel<br>Brown, coarse sand and clay<br>Gray clay<br>Gray clay<br>Brown clay<br>Hardpan<br>Brown, fine gravel<br>Brown, coarse sand |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code   | Description of material   |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--|---|
| PCW 127           | 83.0                 | 39.0                 | --                          | 0.0<br>44.0<br>74.0            | 110SDMN SAND<br>112SRFD SDCL<br>112TILL TILL                                   | Medium to coarse sand<br>Fine sand, clay  |
| Sharon            |                      |                      |                             |                                |  |   |
| SIB 1             | 21.0                 | --                   | 21.0                        | 0.0<br>11.0<br>16.0            | 110SDMN SAND<br>112SRFD SILT<br>112SRFD GRVL Silty                             |   |
| SIB 2             | 29.0                 | --                   | 29.0                        | 0.0<br>8.0<br>10.0<br>26.0     | 110SDMN MUCK<br>112SRFD SAND Coarse<br>112SRFD SILT Clay<br>112SRFD GRVL Silty |   |
| SIB 3             | 5.5                  | --                   | 5.5                         | 0.0                            | 112TILL TILL Gravelly  |   |
| SIW 1             | --                   | 140.0                | --                          | 22.0                           | BEDROCK ROCK --  |   |
| SIW 3             | --                   | 150.0                | --                          | 10.0                           | BEDROCK ROCK --  |   |
| SIW 4             | --                   | 210.0                | --                          | 55.0                           | BEDROCK ROCK --  |   |
| SIW 5             | --                   | 220.0                | --                          | 25.0                           | BEDROCK ROCK --  |   |
| SIW 6             | --                   | 165.0                | --                          | 91.0                           | BEDROCK ROCK --  |   |
| SIW 7             | --                   | 210.0                | --                          | 60.0                           | BEDROCK ROCK --  |   |
| SIW 8             | --                   | 128.0                | --                          | 30.0                           | BEDROCK ROCK --  |   |
| SIW 9             | --                   | 385.0                | --                          | 0.0<br>20.0                    | 110SDMN<br>BEDROCK ROCK  |   |
| SIW 10            | 62.0                 | 21.0                 | --                          | 0.0<br>18.0<br>58.0            | 110SDMN SDGL<br>112SRFD SAND<br>112TILL TILL                                   | Coarse to very coarse sand, fine gravel,<br>some medium sand<br>Fine to very fine sand, silt, clay, some<br>medium sand |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code   | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--|------------------|-------------------------|
| WOW 1             | --                   | 340.0                | --                          | 6.0                            | BEDROCK  | ROCK --          |                         |
| WOW 2             | --                   | 300.0                | --                          | 10.0                           | BEDROCK  | ROCK --          |                         |
| WOW 3             | --                   | 220.0                | --                          | 15.0                           | BEDROCK  | ROCK --          |                         |
| WOW 4             | --                   | 155.0                | --                          | 0.0<br>--<br>--<br>95.0        | 110SDMN CLAY<br>110SDMN SDGL<br>110SDMN CLAY<br>BEDROCK ROCK |                  |                         |
| WOW 5             | --                   | 340.0                | --                          | 0.0<br>120.0                   | 112TILL TILL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 6             | --                   | 365.0                | --                          | 0.0<br>4.0                     | 112TILL TILL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 7             | --                   | 300.0                | --                          | 0.0<br>12.0                    | 112TILL TILL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 8             | --                   | 230.0                | --                          | 0.0<br>12.0                    | 112TILL TILL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 9             | --                   | 305.0                | --                          | 0.0<br>120.0                   | 112TILL TILL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 10            | --                   | 600.0                | --                          | 5.0                            | BEDROCK  | ROCK             |                         |
| WOW 11            | --                   | 400.0                | --                          | 0.0<br>23.0                    | 112TILL TILL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 12            | --                   | 305.0                | --                          | 0.0<br>23.0                    | 110SDMN SDGL<br>BEDROCK ROCK                                 |                  |                         |
| WOW 13            | --                   | 220.0                | --                          | 0.0<br>--<br>40.0              | 110SDMN SDGL<br>110SDMN CLAY<br>BEDROCK ROCK                 |                  |                         |

Hillsborough County

Peterborough--Continued

Windsor

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code       | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------------|-------------------------|
| Herrimack County  |                      |                      |                             |                                |              |                       |                         |
| Andover           |                      |                      |                             |                                |              |                       |                         |
| ANB 1             | 29.5                 | --                   | 29.5                        | 0.0                            | 4.5          | 110SDMN STCL          |                         |
|                   |                      |                      | 4.5                         | 24.0                           | 112TSH       | GRVL                  |                         |
|                   |                      |                      | 24.0                        | --                             | 112TILL      | TILL                  |                         |
| ANB 2             | 28.0                 | --                   | 28.0                        | 0.0                            | 3.0          | 110SDMN SAND          |                         |
|                   |                      |                      | 3.0                         | 18.0                           | 112SRFD      | SDGL                  |                         |
|                   |                      |                      | 18.0                        | 23.0                           | 112SRFD      | SDGL Silty            |                         |
|                   |                      |                      | 23.0                        | --                             | 112SRFD      | SDGL                  |                         |
| ANB 3             | 23.2                 | --                   | 23.2                        | 0.0                            | 1.5          | 110SDMN SAND          | Coarse                  |
|                   |                      |                      | 1.5                         | 4.2                            | 110SDMN      | SDGL Coarse           |                         |
|                   |                      |                      | 4.2                         | 11.5                           | 112SRFD      | SAND Fine             |                         |
|                   |                      |                      | 11.5                        | 17.2                           | 112SRFD      | SAND Fine             |                         |
|                   |                      |                      | 17.2                        | 20.7                           | 112SRFD      | SDGL Coarse           |                         |
|                   |                      |                      | 20.7                        | --                             | 112SRFD      | SDGL                  |                         |
| ANB 4             | 21.1                 | --                   | 21.1                        | 0.0                            | 6.3          | 110SDMN               | SDGL Boulders           |
|                   |                      |                      | 6.3                         | 11.5                           | 112SRFD      | SDGL                  |                         |
|                   |                      |                      | 11.5                        | 16.0                           | 112SRFD      | SAND                  |                         |
|                   |                      |                      | 16.0                        | 19.0                           | 112SRFD      | SDGL                  |                         |
|                   |                      |                      | 19.0                        | --                             | 112SRFD      | SDGL                  |                         |
| ANB 5             | 47.7                 | --                   | 47.7                        | 0.0                            | 6.0          | 110SDMN SAND          |                         |
|                   |                      |                      | 6.0                         | 13.0                           | 112SRFD      | SAND Medium, coarse   |                         |
|                   |                      |                      | 13.0                        | 25.0                           | 112SRFD      | GRVL                  |                         |
|                   |                      |                      | 25.0                        | --                             | 112SRFD      | SDST Gravelly         |                         |
| ANB 6             | 15.5                 | --                   | 15.5                        | 0.0                            | 0.7          | 110SDMN MUCK          |                         |
|                   |                      |                      | 0.7                         | 5.2                            | 112SRFD      | SAND Coarse, boulders |                         |
|                   |                      |                      | 5.2                         | --                             | 112TILL      | TILL Silty            |                         |
| ANB 7             | 4.1                  | --                   | 4.1                         | 0.0                            | 4.1          | 112TILL               | TILL Gravelly           |
|                   |                      |                      | 4.1                         | --                             | BEDROCK      | ROCK                  |                         |
| ANB 8             | 57.3                 | --                   | --                          | 0.0                            | 13.5         | 110SDMN SAND          | Fine                    |
|                   |                      |                      | 13.5                        | 33.3                           | 112SRFD      | SAND Fine, gray       |                         |
|                   |                      |                      | 33.3                        | 39.5                           | 112SRFD      | SDGL Coarse           |                         |
|                   |                      |                      | 39.5                        | --                             | 112SRFD      | SAND                  |                         |

B-80

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code                    | Description of material                 |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------------------------|---|
| Herrimack County   |                      |                      |                             |                                |              |                                    |   |
| Andover--Continued |                      |                      |                             |                                |              |                                    |   |
| ANW 3              | --                   | 98.0                 | --                          | 24.0                           | --           | BEDROCK                            | ROCK --                                 |
| ANW 4              | --                   | 127.0                | --                          | 8.0                            | --           | BEDROCK                            | ROCK --                                 |
| ANW 5              | --                   | 140.0                | --                          | 60.0                           | --           | BEDROCK                            | --                                      |
| ANW 7              | --                   | 100.0                | --                          | 25.0                           | --           | BEDROCK                            | ROCK --                                 |
| ANW 8              | --                   | 80.0                 | --                          | 30.0                           | --           | BEDROCK                            | ROCK --                                 |
| ANW 15             | 42.0                 | 27.0                 | 42.0                        | 0.0                            | 8.0          | 112SRFD SAND                       | Coarse-medium, trace medium-fine gravel |
|                    |                      |                      | 26.0                        | 8.0                            | 26.0         | 112SRFD SAND                       | Coarse, little medium-fine gravel       |
|                    |                      |                      | 26.0                        | 34.0                           | 112SRFD      | SAND Fine                          |   |
|                    |                      |                      | 34.0                        | 42.0                           | 112SRFD      | SAND Fine, trace silt              |   |
|                    |                      |                      | 42.0                        | --                             | BEDROCK      | ROCK                               |   |
| ANW 16             | 62.0                 | 60.0                 | --                          | 0.0                            | 26.0         | 112SRFD SAND                       | Medium, trace-little fine gravel        |
|                    |                      |                      | 26.0                        | 43.0                           | 112SRFD      | SDGL Coarse sand-fine gravel       |   |
|                    |                      |                      | 43.0                        | 48.5                           | 112SRFD      | SAND Fine                          |   |
|                    |                      |                      | 48.5                        | --                             | 112SRFD      | SAND Coarse-fine, some fine gravel |   |
| ANW 17             | 31.5                 | --                   | --                          | 0.0                            | 14.0         | 112SRFD SAND                       | Medium to coarse, some fine gravel      |
|                    |                      |                      | 14.0                        | 20.0                           | 112SRFD      | SAND Fine, silty                   |   |
|                    |                      |                      | 20.0                        | 23.0                           | 112SRFD      | SAND Medium to coarse              |   |
|                    |                      |                      | 23.0                        | --                             | 112SRFD      | SAND Fine, silty                   |   |
| ANW 18             | 6.5                  | --                   | 6.5                         | 0.0                            | 4.2          | 112SRFD SAND                       | Fine-coarse, trace gravel               |
|                    |                      |                      | 4.2                         | --                             | 112SRFD      | SDGL Silty, fine                   |   |
| ANW 19             | 92.0                 | 86.0                 | --                          | 0.0                            | 20.0         | 112SRFD                            | SDGL                                    |
|                    |                      |                      | 20.0                        | 30.0                           | 112SRFD      | SAND Medium to coarse              |   |
|                    |                      |                      | 30.0                        | 45.0                           | 112SRFD      | SAND Very fine to coarse           |   |
|                    |                      |                      | 45.0                        | 50.0                           | 112SRFD      | SAND Medium to very coarse         |   |
|                    |                      |                      | 50.0                        | 77.0                           | 112SRFD      | SAND Medium to very fine           |   |
|                    |                      |                      | 77.0                        | 87.0                           | 112SRFD      | SAND Fine to very fine             |   |
|                    |                      |                      | 87.0                        | 88.0                           | 112SRFD      | SAND Medium to coarse              |   |
|                    |                      |                      | 88.0                        | --                             | 112TILL      | TILL                               |   |

B-81

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| ANW 20            | --                   | 385.0                | --                      | 0.0                         | 200.0                          | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 200.0                       | 230.0                          | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 230.0                       | --                             | BEDROCK          | ROCK                    |
| ANW 21            | --                   | 19.0                 | --                      | 0.0                         | 20.0                           | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 20.0                        | --                             | 110SDMN CLAY     |                         |
| ANW 22            | --                   | 505.0                | --                      | 46.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 25            | --                   | 246.0                | --                      | 110.0                       | --                             | BEDROCK          | ROCK                    |
| ANW 26            | --                   | 605.0                | --                      | 20.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 27            | --                   | 500.0                | --                      | 220.0                       | --                             | BEDROCK          | ROCK                    |
| ANW 29            | --                   | 593.0                | --                      | 0.0                         | 18.0                           | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 18.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 30            | --                   | 120.0                | --                      | 0.0                         | 18.0                           | 110SDMN OTHR     |                         |
|                   |                      |                      |                         | 18.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 31            | --                   | 202.0                | --                      | 0.0                         | 15.0                           | 112TILL TILL     |                         |
|                   |                      |                      |                         | 15.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 34            | --                   | 305.0                | --                      | 9.0                         | --                             | BEDROCK          | ROCK                    |
| ANW 35            | --                   | 322.0                | --                      | 0.0                         | 22.0                           | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 22.0                        | 28.0                           | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 28.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 36            | --                   | 395.0                | --                      | 0.0                         | 75.0                           | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 75.0                        | 215.0                          | 112TILL TILL     |                         |
|                   |                      |                      |                         | 215.0                       | --                             | BEDROCK          | ROCK                    |
| ANW 37            | --                   | 190.0                | --                      | 0.0                         | 150.0                          | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 150.0                       | 167.0                          | 112TILL TILL     |                         |
|                   |                      |                      |                         | 167.0                       | --                             | BEDROCK          | ROCK                    |

Merrimack County

Andover--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| ANW 38            | --                   | 505.0                | --                      | 0.0                         | 11.0                           | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 11.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 39            | --                   | 305.0                | --                      | 0.0                         | 46.0                           | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 46.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 40            | --                   | 305.0                | --                      | 0.0                         | 70.0                           | 112TILL TILL     |                         |
|                   |                      |                      |                         | 70.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 41            | --                   | 405.0                | --                      | 0.0                         | --                             | 110SDMN SAND     |                         |
|                   |                      |                      |                         | --                          | --                             | 110SDMN CLAY     |                         |
|                   |                      |                      |                         | 43.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 43            | --                   | 345.0                | --                      | 0.0                         | 30.0                           | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 30.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 44            | --                   | 300.0                | --                      | 0.0                         | 92.0                           | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 92.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 46            | --                   | 204.0                | --                      | 0.0                         | 100.0                          | 110SDMN SDGL     |                         |
|                   |                      |                      |                         | 100.0                       | --                             | BEDROCK          | ROCK                    |
| ANW 47            | --                   | 410.0                | --                      | 0.0                         | --                             | 110SDMN SAND     |                         |
|                   |                      |                      |                         | --                          | --                             | 112TILL TILL     |                         |
|                   |                      |                      |                         | 77.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 48            | --                   | 510.0                | --                      | 0.0                         | 53.0                           | 112TILL TILL     |                         |
|                   |                      |                      |                         | 53.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 49            | --                   | 393.0                | --                      | 0.0                         | 42.0                           | 112TILL TILL     |                         |
|                   |                      |                      |                         | 42.0                        | --                             | BEDROCK          | ROCK                    |
| ANW 50            | --                   | 305.0                | --                      | 0.0                         | 60.0                           | 110SDMN SAND     |                         |
|                   |                      |                      |                         | 60.0                        | 100.0                          | 110SDMN CLAY     |                         |
|                   |                      |                      |                         | 100.0                       | --                             | BEDROCK          | ROCK                    |

Merrimack County

Andover--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material                 |  |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|---|--|
| ANW 54            | 129.0                | 40.0                 | 0.0                         | 33.0                           | 110SDMN      | SDGL            | Very coarse to coarse sand, fine gravel |  |
|                   |                      |                      | 33.0                        | 63.0                           | 112SRFD      | SAND            | Fine sand, some medium sand             |  |
|                   |                      |                      | 63.0                        | --                             | 112SRFD      | SDST            | Fine to very fine sand, silt, clay      |  |
| ANW 56            | --                   | 280.0                | 0.0                         | --                             | 110SDMN      | SAND            |   |  |
|                   |                      |                      | --                          | --                             | 110SDMN      | CLAY            |   |  |
|                   |                      |                      | --                          | 54.0                           | --           | 110SDMN         | SDGL                                    |  |
| ANW 57            | --                   | 265.0                | 0.0                         | --                             | 110SDMN      | SAND            |   |  |
|                   |                      |                      | --                          | 140.0                          | --           | 110SDMN         | CLAY                                    |  |
|                   |                      |                      | --                          | 175.0                          | --           | 110SDMN         | ROCK                                    |  |
| ANW 58            | --                   | 245.0                | 0.0                         | --                             | 110SDMN      | ROCK            |   |  |
|                   |                      |                      | --                          | 175.0                          | --           | 110SDMN         | ROCK                                    |  |
|                   |                      |                      | --                          | 175.0                          | --           | 110SDMN         | ROCK                                    |  |
| BTB 2             | 18.5                 | --                   | 0.0                         | 9.0                            | 110SDMN      | SDGL            | Boulders                                |  |
|                   |                      |                      | 9.0                         | --                             | 110SDMN      | ROCK            |   |  |
| BTW 1             | 420.0                | 420.0                | 0.0                         | 31.0                           | 112SRFD      | SDCL            | Drill record hardpan                    |  |
|                   |                      |                      | 31.0                        | 53.0                           | 112SRFD      | CLAY            |   |  |
|                   |                      |                      | 53.0                        | --                             | 112SRFD      | ROCK            | Bedrock                                 |  |
| BVB 1             | 62.0                 | --                   | 0.0                         | 5.0                            | 111FILL      | SAND            |   |  |
|                   |                      |                      | 5.0                         | 17.5                           | 112SRFD      | SAND            | Fine                                    |  |
|                   |                      |                      | 17.5                        | 45.0                           | 112SRFD      | SAND            | Coarse, gravel                          |  |
|                   |                      |                      | 45.0                        | 56.0                           | 112SRFD      | SAND            | Coarse                                  |  |
|                   |                      |                      | 56.0                        | --                             | 112SRFD      | SAND            | Coarse, gravel                          |  |
| BVB 2             | 27.5                 | --                   | 0.0                         | 5.5                            | 110SDMN      | MUCK            |   |  |
|                   |                      |                      | 5.5                         | 12.0                           | 112SRFD      | SAND            | Gravelly                                |  |
|                   |                      |                      | 12.0                        | 20.0                           | 112SRFD      | SAND            | Fine                                    |  |
|                   |                      |                      | 20.0                        | --                             | 112TILL      | TILL            | Sandy                                   |  |

Merrimack County

Andover--Continued

Boscawen

Bradford

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| BVB 3             | 4.0                  | --                   | 4.0                         | 0.0                            | 0.5          | 110SDMN         | MUCK Sand               |
|                   |                      |                      | 1.5                         | --                             | 110SDMN      | SAND            | Silty, gravelly         |
| BVW 1             | --                   | 179.0                | --                          | 84.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 2             | --                   | 150.0                | --                          | 17.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 3             | --                   | 230.0                | --                          | 110.0                          | --           | BEDROCK         | ROCK --                 |
| BVW 5             | --                   | 98.0                 | --                          | 1.0                            | --           | BEDROCK         | ROCK --                 |
| BVW 6             | --                   | 107.0                | --                          | 34.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 7             | --                   | 280.0                | --                          | 1.0                            | --           | BEDROCK         | ROCK --                 |
| BVW 8             | --                   | 200.0                | --                          | 80.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 10            | --                   | 256.0                | --                          | 110.0                          | --           | BEDROCK         | ROCK --                 |
| BVW 11            | --                   | 177.0                | --                          | 14.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 12            | --                   | 205.0                | --                          | 76.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 13            | --                   | 220.0                | --                          | 110.0                          | --           | BEDROCK         | ROCK --                 |
| BVW 14            | --                   | 155.0                | --                          | 64.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 15            | --                   | 147.0                | --                          | 15.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 16            | --                   | 225.0                | --                          | 11.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 17            | --                   | 140.0                | --                          | 60.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 18            | --                   | 73.0                 | --                          | 84.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 19            | --                   | 325.0                | --                          | 65.0                           | --           | BEDROCK         | ROCK --                 |
| BVW 20            | --                   | 150.0                | --                          | 6.0                            | --           | BEDROCK         | ROCK --                 |

Merrimack County

Bradford--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| BWV 21            | --                   | 150.0                | --                          | 14.0                           | --           | BEDROCK         | ROCK                    |
| BWV 22            | --                   | 445.0                | --                          | 0.0                            | 70.0         | 110SDMN         | SAND                    |
| BWV 23            | 58.0                 | 29.0                 | 58.0                        | 0.0                            | 30.0         | 112SRFD         | SDGL                    |
| BWV 24            | 107.0                | 98.0                 | --                          | 0.0                            | 27.0         | 112SRFD         | SDGL                    |
|                   |                      |                      |                             | 27.0                           | 49.0         | 112SRFD         | SAND                    |
|                   |                      |                      |                             | 49.0                           | 67.0         | 112SRFD         | SAND                    |
|                   |                      |                      |                             | 67.0                           | 97.0         | 112SRFD         | SILT                    |
|                   |                      |                      |                             | 97.0                           | --           | 112TILL         | TILL                    |
| BWV 25            | --                   | 170.0                | --                          | 0.0                            | 65.0         | 112TILL         | TILL                    |
|                   |                      |                      |                             | 65.0                           | 97.0         | 110SDMN         | CLAY                    |
| BWV 26            | --                   | 20.0                 | --                          | 0.0                            | --           | 110SDMN         | SAND                    |
|                   |                      |                      |                             | --                             | --           | 112TILL         | TILL                    |
|                   |                      |                      |                             | --                             | --           | 112TILL         | TILL                    |
| BWV 27            | --                   | 172.0                | --                          | 0.0                            | 4.0          | 110SDMN         | SAND                    |
|                   |                      |                      |                             | 4.0                            | --           | BEDROCK         | ROCK                    |
| BWV 28            | --                   | 205.0                | --                          | 0.0                            | 12.0         | 112TILL         | TILL                    |
|                   |                      |                      |                             | 12.0                           | --           | BEDROCK         | ROCK                    |
| BWV 29            | --                   | 150.0                | --                          | 0.0                            | --           | 110SDMN         | SDGL                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN         | SAND                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN         | CLAY                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN         | SAND                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN         | SDGL                    |
|                   |                      |                      |                             | 95.0                           | --           | BEDROCK         | ROCK                    |

Merrimack County

Braintree--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
| BWV 30            | --                   | 275.0                | --                          | 0.0                            | --           | 110SDMN         | SDGL                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN         | SAND                    |
|                   |                      |                      |                             | --                             | --           | 112TILL         | TILL                    |
| BWV 31            | --                   | 253.0                | --                          | 0.0                            | --           | 112TILL         | TILL                    |
|                   |                      |                      |                             | --                             | --           | 110SDMN         | SDGL                    |
|                   |                      |                      |                             | 75.0                           | --           | BEDROCK         | ROCK                    |
| BWV 32            | --                   | 303.0                | --                          | 0.0                            | 21.0         | 110SDMN         | SDGL                    |
|                   |                      |                      |                             | 21.0                           | 70.0         | 112TILL         | TILL                    |
|                   |                      |                      |                             | 70.0                           | --           | BEDROCK         | ROCK                    |
| BWV 33            | --                   | 175.0                | --                          | 12.0                           | --           | BEDROCK         | ROCK                    |
| BWV 34            | --                   | 18.0                 | --                          | 0.0                            | 6.0          | 110SDMN         | SDGL                    |
|                   |                      |                      |                             | 6.0                            | --           | 110SDMN         | SAND                    |
| BWV 35            | --                   | 703.0                | --                          | 75.0                           | 0.0          | BEDROCK         | ROCK                    |
| BWV 37            | --                   | 672.0                | --                          | 133.0                          | --           | BEDROCK         | ROCK                    |
| BWV 38            | --                   | 210.0                | --                          | 0.0                            | 20.0         | 112TILL         | TILL                    |
|                   |                      |                      |                             | 20.0                           | --           | BEDROCK         | ROCK                    |
| BWV 39            | --                   | 340.0                | --                          | 0.0                            | --           | BEDROCK         | ROCK                    |
| BWV 40            | --                   | 385.0                | --                          | 0.0                            | 15.0         | 110SDMN         | SAND                    |
|                   |                      |                      |                             | 15.0                           | --           | BEDROCK         | ROCK                    |
| BWV 41            | --                   | 305.0                | --                          | 0.0                            | --           | 110SDMN         | SAND                    |
|                   |                      |                      |                             | 3.0                            | --           | BEDROCK         | ROCK                    |
| BWV 42            | --                   | 293.0                | --                          | 0.0                            | 6.0          | 112TILL         | TILL                    |
|                   |                      |                      |                             | 6.0                            | --           | BEDROCK         | ROCK                    |

Merrimack County

Braintree--Continued



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|---------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| Merrimack County    |                      |                      |                             |                                |                  |                         |
| Bradford--Continued |                      |                      |                             |                                |                  |                         |
| BWV 43              | --                   | 345.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                             | 10.0                           | BEDROCK          | ROCK                    |
| BWV 44              | --                   | 325.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 11.0                           | BEDROCK          | ROCK                    |
| BWV 45              | --                   | 305.0                | --                          | 85.0                           | BEDROCK          | ROCK                    |
| BWV 46              | --                   | 295.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 65.0                           | BEDROCK          | ROCK                    |
| BWV 47              | --                   | 305.0                | --                          | 3.0                            | BEDROCK          | ROCK                    |
| BWV 48              | --                   | 130.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 2.0                            | BEDROCK          | ROCK                    |
| BWV 49              | --                   | 285.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                     |                      |                      |                             | 30.0                           | 112TILL TILL     |                         |
|                     |                      |                      |                             | 101.0                          | BEDROCK          | ROCK                    |
| BWV 50              | --                   | 345.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                     |                      |                      |                             | 1.0                            | BEDROCK          | ROCK                    |
| BWV 51              | --                   | 715.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | --                             | 110SDMN CLAY     |                         |
|                     |                      |                      |                             | 40.0                           | BEDROCK          | ROCK                    |
| BWV 52              | --                   | 675.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 8.0                            | BEDROCK          | ROCK                    |
| BWV 53              | --                   | 245.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                     |                      |                      |                             | 30.0                           | BEDROCK          | ROCK                    |
| BWV 54              | --                   | 204.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                             | 50.0                           | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|---------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| Merrimack County    |                      |                      |                             |                                |                  |                         |
| Bradford--Continued |                      |                      |                             |                                |                  |                         |
| BWV 55              | --                   | 285.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                             | --                             | 112TILL TILL     |                         |
|                     |                      |                      |                             | 50.0                           | BEDROCK          | ROCK                    |
| BWV 56              | --                   | 345.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 9.0                            | BEDROCK          | ROCK                    |
| BWV 57              | --                   | 220.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 8.0                            | BEDROCK          | ROCK                    |
| BWV 58              | --                   | 180.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | --                             | 110SDMN CLAY     |                         |
|                     |                      |                      |                             | 82.0                           | BEDROCK          | ROCK                    |
| BWV 60              | --                   | 252.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                     |                      |                      |                             | --                             | 110SDMN CLAY     |                         |
|                     |                      |                      |                             | 65.0                           | BEDROCK          | ROCK                    |
| BWV 61              | --                   | 345.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 41.0                           | BEDROCK          | ROCK                    |
| BWV 62              | --                   | 250.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 12.0                           | BEDROCK          | ROCK                    |
| BWV 63              | --                   | 255.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 14.0                           | BEDROCK          | ROCK                    |
| BWV 64              | --                   | 450.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                     |                      |                      |                             | 15.0                           | BEDROCK          | ROCK                    |
| BWV 65              | --                   | 205.0                | --                          | 5.0                            | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet)           | Litho-logic code   | Description of material  |
|---------------------|----------------------|----------------------|-----------------------------|--|--|--|
| Merrimack County    |                      |                      |                             |  |  |  |
| Bradford--Continued |                      |                      |                             |  |  |  |
| BW 67               | --                   | 143.0                | --                          | 0.0<br>43.0                              | 112TILL<br>BEDROCK   | TILL<br>ROCK   |
| BW 68               | --                   | 122.0                | --                          | 0.0<br>40.0                              | 112TILL<br>BEDROCK   | TILL<br>ROCK   |
| BW 69               | --                   | 220.0                | --                          | 0.0<br>65.0                              | 110SDMN<br>BEDROCK   | SAND<br>ROCK   |
| BW 70               | --                   | 150.0                | --                          | 0.0<br>46.0                              | 110SDMN<br>BEDROCK   | SAND<br>ROCK   |
| Concord             |                      |                      |                             |  |  |  |
| CVA 11              | 100.0                | --                   | --                          | 0.0<br>15.0<br>18.0<br>27.5<br>47.0      | 112SRFD<br>111SOIL<br>112SRFD<br>112SRFD<br>112SRFD            | SAND<br>MUD<br>Gravel<br>STCL<br>SDST  |
|                     |                      |                      |                             |  |  | Coarse to very coarse sand<br>Clay and silt, gray<br>Very fine to fine sand, silt, alternating brown and clay layers |
| CVB 60              | 15.0                 | --                   | 15.0                        | 0.0<br>4.0                               | 110SDMN<br>110SDMN   | SAND<br>SAND   |
|                     |                      |                      |                             |  |  | F-M, some silt, cobbles, boulders<br>F-M, some silt, cobbles, boulders   |
| CVB 61              | 15.0                 | --                   | --                          | 0.0<br>4.0<br>6.0<br>9.0<br>13.5<br>14.5 | 110SDMN<br>110SDMN<br>110SDMN<br>110SDMN<br>110SDMN<br>BEDROCK | SAND<br>Silty, silt<br>Fine, medium, some silt<br>Fine, silty<br>Fine, medium, some silt<br>Fine, silty<br>ROCK      |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet)              | Litho-logic code   | Description of material  |
|--------------------|----------------------|----------------------|-----------------------------|---|--|--|
| Merrimack County   |                      |                      |                             |   |  |  |
| Concord--Continued |                      |                      |                             |   |  |  |
| CVB 62             | 53.5                 | --                   | --                          | 0.0<br>1.0<br>5.0<br>11.5<br>41.0<br>46.0   | 110SOIL<br>110SDMN<br>110SDMN<br>112TILL<br>112TILL<br>112TSH<br>112TILL | SOIL<br>SAND<br>SAND<br>TILL<br>Sandy<br>SAND<br>TILL Silty  |
|                    |                      |                      |                             |   |  | Sandy<br>Fine, medium, some silt<br>Fine, silty<br>Sandy<br>Fine, medium, some silt<br>Fine, medium, some silt |
| CVB 63             | 69.5                 | --                   | --                          | 0.0<br>7.0<br>11.0<br>22.5<br>29.0<br>29.0  | 110SDMN<br>110SDMN<br>112SRFD<br>112TILL<br>112TILL<br>112TILL           | SAND<br>SAND<br>SAND<br>TILL<br>TILL<br>TILL Clayey  |
|                    |                      |                      |                             |   |  | Fine, medium, some silt<br>Fine, coarse, some silt<br>Fine, silty<br>Silty<br>Clayey                           |
| CVM 46             | 78.0                 | 23.0                 | 78.0                        | 0.0<br>15.0<br>23.0<br>67.0<br>73.0<br>77.8 | 112SRFD<br>112SRFD<br>112SRFD<br>SDST<br>112SRFD<br>BEDROCK              | SAND<br>SAND<br>SAND<br>Medium to fine<br>Clay<br>Clay<br>TILL<br>ROCK<br>BEDROCK                              |
|                    |                      |                      |                             |   |  | Coarse to medium<br>Medium to fine<br>Clay<br>Gray<br>TILL<br>BEDROCK  |
| CVM 137            | 105.0                | 17.0                 | --                          | 0.0<br>88.0                                 | 112SRFD<br>112SRFD   | SAND<br>CLAY   |
|                    |                      |                      |                             |   |  | Fine sand  |
| CVM 151            | --                   | 172.0                | --                          | 84.0  | BEDROCK  | ROCK   |
| CVM 152            | --                   | 176.0                | --                          | 60.0  | BEDROCK  | ROCK   |
| CVM 153            | --                   | 198.0                | --                          | 50.0  | BEDROCK  | ROCK   |
| CVM 154            | --                   | 98.0                 | --                          | 14.0  | BEDROCK  | ROCK   |
| CVM 156            | --                   | 116.0                | --                          | 22.0  | BEDROCK  | ROCK   |
| CVM 157            | --                   | 275.0                | --                          | 51.0  | BEDROCK  | ROCK   |
| CVM 158            | --                   | 110.0                | --                          | 65.0  | BEDROCK  | ROCK   |

Appendix B...Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code   | Description of material   |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--|---|
| Merrimack County   |                      |                      |                             |                                |  |   |
| Concord--Continued |                      |                      |                             |                                |  |   |
| CWV 160            | 30.1                 | 30.0                 | --                          | 0.0<br>20.0<br>24.2            | 112SRFD SAND<br>112SRFD SAND<br>112SRFD SAND                 | Fine to coarse, trace silt<br>Very fine, trace medium sand, some silt<br>Fine, some fine to coarse gravel, little silt, brown |
| CWV 161            | 61.4                 | 60.0                 | --                          | 0.0<br>15.5<br>48.0            | 112SRFD SAND<br>112SRFD SDST<br>112SRFD SAND                 | Fine to medium, trace silt<br>Fine, trace clay layers<br>Fine to coarse, with fine to coarse gravel, little silt              |
| CWV 162            | 27.5                 | 18.0                 | --                          | 0.0<br>3.0<br>9.0              | 11DSOIL SAND<br>112SRFD SAND<br>112SRFD SILT                 | Fill<br>Fine to coarse, trace fine gravel, trace silt<br>Clayey towards base, some fine sand, trace silt                      |
| CWV 240            | --                   | 500.0                | --                          | 0.0<br>50.0                    | 110SDMN SAND<br>BEDROCK ROCK                                 | Fine to coarse, some silt, trace fine gravel  |
| CWV 241            | --                   | 580.0                | --                          | 0.0<br>87.0                    | 110SDMN CLAY<br>BEDROCK ROCK                                 | CLAY  |
| CWV 242            | --                   | 420.0                | --                          | 0.0<br>118.0                   | 110SDMN SAND<br>BEDROCK ROCK                                 | SAND  |
| DBB 2              | 15.0                 | --                   | 15.5                        | 0.0<br>1.2<br>4.3              | 110SDMN SAND<br>110ALVN SDGL<br>112TILL TILL                 | Silty, boulders<br>Fine   |
| DBB 3              | 11.5                 | --                   | 11.5                        | 0.0<br>1.8<br>6.1<br>7.5       | 110SDMN MUCK<br>112SRFD SDGL<br>112SRFD SAND<br>112SRFD SDGL | MUCK<br>Coarse<br>Medium, fine<br>Boulders  |

B-92

Appendix B...Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code   | Description of material   |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--|---|
| Merrimack County   |                      |                      |                             |                                |  |   |
| Danbury--Continued |                      |                      |                             |                                |  |   |
| DBW 3              | 61.0                 | 52.0                 | --                          | 0.0<br>48.0<br>52.0<br>56.0    | 111FILL<br>112SRFD SAND<br>112SRFD SAND<br>BEDROCK ROCK                  | Gravelly<br>Fine, silty<br>Fine, silty                            |
| DBW 4              | 37.0                 | --                   | --                          | 0.0<br>18.5                    | 112SRFD SAND<br>BEDROCK ROCK   | Gravelly, silty, with cobbles                                     |
| DBW 5              | 94.0                 | 94.0                 | --                          | 0.0<br>66.0<br>81.0<br>89.0    | 112SRFD SAND<br>112SRFD SAND<br>112SRFD SAND<br>BEDROCK ROCK             | Fine, silty<br>Medium-fine<br>Coarse-fine, little silt and gravel |
| DBW 6              | 44.0                 | --                   | --                          | 0.0<br>31.0<br>34.0            | 111FILL<br>112SRFD COBB<br>BEDROCK ROCK                                  | Cobbles or weathered rock   |
| DBW 7              | 45.0                 | 45.0                 | --                          | 0.0<br>33.0                    | 111FILL<br>112SRFD SAND  | Dense, coarse-fine, little gravel, trace silt                     |
| DBW 13             | --                   | 310.0                | --                          | 0.0<br>5.0                     | 112TILL TILL<br>BEDROCK ROCK   | TILL  |
| DBW 23             | --                   | 240.0                | --                          | 0.0<br>12.0                    | 112TILL TILL<br>BEDROCK ROCK   | TILL  |
| DBW 24             | --                   | 400.0                | --                          | 0.0<br>4.0                     | 112TILL TILL<br>BEDROCK ROCK   | TILL  |
| HMB 1              | 53.0                 | --                   | 53.0                        | 0.0<br>24.0<br>40.0<br>45.0    | Henniker<br>112SRFD SAND<br>112SRFD SAND<br>112SRFD SAND<br>112SRFD SAND | Fine, trace silt<br>Medium, some silt<br>Fine<br>Silty sand, silt |

B-93

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code                     | Description of material |
|---------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------------------------------|-------------------------|
| Merrimack County    |                      |                      |                             |                                |                                      |                         |
| Henniker--Continued |                      |                      |                             |                                |                                      |                         |
| HMB 3               | 11.0                 | --                   | --                          | 0.0                            | 111FILL SAND                         |                         |
|                     |                      |                      | 3.0                         | 3.0                            | 112TILL TILL Sandy                   |                         |
| HMB 4               | 36.0                 | --                   | --                          | 0.0                            | 112TILL TILL Sandy                   |                         |
| HMB 5               | 17.0                 | --                   | 17.0                        | 0.0                            | 110SOIL SOIL                         |                         |
|                     |                      |                      | 1.0                         | 13.0                           | 1120SH GRVL Sandy                    |                         |
|                     |                      |                      | 13.0                        | --                             | 112TILL TILL Sandy, silty            |                         |
| HMB 6               | 36.0                 | --                   | --                          | 0.0                            | 110SOIL SOIL                         |                         |
|                     |                      |                      | 1.0                         | 9.0                            | 1120SH GRVL Silty                    |                         |
|                     |                      |                      | 9.0                         | 12.5                           | 112TILL TILL Sandy, silty            |                         |
|                     |                      |                      | 12.5                        | --                             | BEDROCK ROCK                         |                         |
| HMB 7               | 60.0                 | --                   | --                          | 0.0                            | 112SRFD CLAY                         |                         |
|                     |                      |                      | 45.0                        | 60.0                           | 112TILL TILL                         |                         |
| HMB 8               | 45.0                 | --                   | 45.0                        | 0.0                            | 110SDMN SAND Fine to coarse sand     |                         |
|                     |                      |                      | 33.0                        | 45.0                           | 112SRFD CLAY                         |                         |
| HMB 10              | 106.0                | --                   | --                          | 0.0                            | 112SRFD SDGL Fine                    |                         |
|                     |                      |                      | 44.0                        | 48.0                           | 112SRFD SAND Fine sand, and boulders |                         |
|                     |                      |                      | 48.0                        | 79.0                           | 112SRFD SDGL Fine                    |                         |
|                     |                      |                      | 79.0                        | --                             | 112SRFD SOST Fine                    |                         |
| HMB 11              | 111.0                | --                   | --                          | 0.0                            | 112SRFD SDGL                         |                         |
|                     |                      |                      | 72.5                        | 87.5                           | 112SRFD SOST Fine                    |                         |
|                     |                      |                      | 87.5                        | 92.5                           | 112SRFD SOST Fine, and boulders      |                         |
|                     |                      |                      | 92.5                        | --                             | 112SRFD SOST Fine                    |                         |
| HMW 7               | --                   | 130.0                | --                          | 56.0                           | BEDROCK ROCK --                      |                         |
| HMW 8               | --                   | 116.0                | --                          | 55.0                           | BEDROCK ROCK --                      |                         |
| HMW 9               | --                   | 300.0                | --                          | 209.0                          | BEDROCK ROCK --                      |                         |
| HMW 12              | 45.0                 | --                   | --                          | 0.0                            | 112SRFD SDGL                         |                         |
|                     |                      |                      | 30.0                        | --                             | 112SRFD SAND Some medium gravel      |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code                        | Description of material |
|---------------------|----------------------|----------------------|-----------------------------|--------------------------------|---|-------------------------|
| Merrimack County    |                      |                      |                             |                                |   |                         |
| Henniker--Continued |                      |                      |                             |                                |   |                         |
| HMW 13              | 23.0                 | --                   | --                          | 0.0                            | 112SRFD SDGL Medium, boulder at 23 feet |                         |
| HMW 14              | 53.0                 | 49.0                 | --                          | 0.0                            | 112SRFD SDGL Coarse                     |                         |
|                     |                      |                      | 49.0                        | --                             | 112SRFD SAND Compact, with boulders     |                         |
|                     |                      |                      | --                          | --                             | --                                      |                         |
| HMW 15              | 42.0                 | --                   | --                          | 0.0                            | 112SRFD SDGL Fine                       |                         |
|                     |                      |                      | 21.0                        | 35.0                           | 112SRFD SDGL Medium-coarse              |                         |
|                     |                      |                      | 35.0                        | --                             | 112SRFD SDGL Medium-fine                |                         |
| HMW 16              | 60.0                 | 45.0                 | --                          | 0.0                            | 112SRFD SDGL Coarse                     |                         |
|                     |                      |                      | 21.0                        | 35.0                           | 112SRFD SAND Fine                       |                         |
|                     |                      |                      | 35.0                        | 42.0                           | 112SRFD SAND Fine-medium                |                         |
|                     |                      |                      | 42.0                        | 56.0                           | 112SRFD SAND Fine, trace clay           |                         |
|                     |                      |                      | 56.0                        | --                             | 112SRFD SAND Compact, fine              |                         |
| HMW 17              | 49.0                 | --                   | --                          | 0.0                            | 112SRFD SDGL Coarse-medium              |                         |
|                     |                      |                      | 21.0                        | 42.0                           | 112SRFD SAND Medium-coarse              |                         |
|                     |                      |                      | 42.0                        | --                             | 112SRFD SAND Fine, trace clay           |                         |
| HMW 18              | 35.0                 | --                   | --                          | 0.0                            | 112SRFD SDGL Medium-coarse              |                         |
|                     |                      |                      | 21.0                        | --                             | 112TILL SDCL Compact, some gravel       |                         |
| HMW 19              | 40.0                 | --                   | 40.0                        | 0.0                            | 112SRFD SDGL Medium-coarse              |                         |
|                     |                      |                      | 21.0                        | 28.0                           | 112SRFD SAND Fine                       |                         |
|                     |                      |                      | 28.0                        | 35.0                           | 112SRFD SDGL Fine                       |                         |
|                     |                      |                      | 35.0                        | --                             | 112TILL SDCL Compact                    |                         |
| HMW 22              | --                   | 515.0                | --                          | 0.0                            | 110SDMN BEDROCK                         |                         |
|                     |                      |                      | 70.0                        | --                             | BEDROCK ROCK                            |                         |
| HMW 23              | --                   | 240.0                | --                          | 0.0                            | 112TILL TILL                            |                         |
|                     |                      |                      | --                          | --                             | 110SDMN SDGL                            |                         |
|                     |                      |                      | 115.0                       | --                             | BEDROCK ROCK                            |                         |
| HMW 27              | --                   | 445.0                | --                          | 0.0                            | 112TILL TILL                            |                         |
|                     |                      |                      | 55.0                        | --                             | BEDROCK ROCK                            |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|---------------------|----------------------|----------------------|-------------------------|--------------------------------|-----------------|-------------------------|
| Herrinbeck County   |                      |                      |                         |                                |                 |                         |
| Henniker--Continued |                      |                      |                         |                                |                 |                         |
| HMW 28              | --                   | 235.0                | --                      | 0.0                            | 110SDMN SDGL    |                         |
|                     |                      |                      |                         | --                             | 112TILL TILL    |                         |
|                     |                      |                      |                         | --                             | 110SDMN CLAY    |                         |
|                     |                      |                      |                         | --                             | 112TILL TILL    |                         |
|                     |                      |                      |                         | 74.0                           | BEDROCK ROCK    |                         |
| HMW 29              | --                   | 185.0                | --                      | 0.0                            | BEDROCK ROCK    |                         |
| HMW 30              | --                   | 400.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 80.0                           | BEDROCK ROCK    |                         |
| HMW 32              | --                   | 190.0                | --                      | 0.0                            | 110SDMN SDGL    |                         |
|                     |                      |                      |                         | 22.0                           | BEDROCK ROCK    |                         |
| HMW 33              | --                   | 14.0                 | --                      | 0.0                            | 110SDMN CLAY    |                         |
| HMW 34              | --                   | 700.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 10.0                           | BEDROCK ROCK    |                         |
| HMW 35              | --                   | 212.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 3.0                            | BEDROCK ROCK    |                         |
| HMW 36              | --                   | 205.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 51.0                           | BEDROCK ROCK    |                         |
| HMW 37              | --                   | 700.0                | --                      | 0.0                            | 110SDMN SDGL    |                         |
|                     |                      |                      |                         | --                             | 112TILL TILL    |                         |
|                     |                      |                      |                         | 82.0                           | BEDROCK ROCK    |                         |
| HMW 44              | --                   | 185.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 87.0                           | BEDROCK ROCK    |                         |
| HMW 46              | --                   | 380.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 110.0                          | BEDROCK ROCK    |                         |
| HMW 48              | --                   | 300.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 35.0                           | BEDROCK ROCK    |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|---------------------|----------------------|----------------------|-------------------------|--------------------------------|-----------------|-------------------------|
| Herrinbeck County   |                      |                      |                         |                                |                 |                         |
| Henniker--Continued |                      |                      |                         |                                |                 |                         |
| HMW 51              | --                   | 400.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 96.0                           | BEDROCK ROCK    |                         |
| HMW 54              | --                   | 240.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 60.0                           | BEDROCK ROCK    |                         |
| HMW 55              | --                   | 400.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 140.0                          | BEDROCK ROCK    |                         |
| HMW 57              | --                   | 370.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 110.0                          | BEDROCK ROCK    |                         |
| HMW 58              | --                   | 220.0                | --                      | 0.0                            | BEDROCK ROCK    |                         |
| HMW 59              | --                   | 204.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 6.0                            | BEDROCK ROCK    |                         |
| HMW 63              | --                   | 260.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | 40.0                           | BEDROCK ROCK    |                         |
| HMW 72              | --                   | 302.0                | --                      | 0.0                            | 110SDMN SAND    |                         |
|                     |                      |                      |                         | --                             | 110SDMN SDGL    |                         |
|                     |                      |                      |                         | --                             | 112TILL TILL    |                         |
|                     |                      |                      |                         | 145.0                          | BEDROCK ROCK    |                         |
| HMW 73              | --                   | 382.0                | --                      | 0.0                            | 112TILL TILL    |                         |
|                     |                      |                      |                         | --                             | 110SDMN CLAY    |                         |
|                     |                      |                      |                         | --                             | 112TILL TILL    |                         |
|                     |                      |                      |                         | 95.0                           | BEDROCK ROCK    |                         |
| HMW 74              | --                   | 824.0                | --                      | 0.0                            | 110SDMN SDGL    |                         |
|                     |                      |                      |                         | 33.0                           | 110SDMN SAND    |                         |
|                     |                      |                      |                         | 49.0                           | 110SDMN CLAY    |                         |
|                     |                      |                      |                         | 106.0                          | BEDROCK ROCK    |                         |
| HMW 75              | --                   | 252.0                | --                      | 0.0                            | BEDROCK ROCK    |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth to well refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code                                    | Description of material              |
|--------------------|----------------------|------------------------------|---------------------|--------------------------------|---|--------------------------------------|
| Merrimack County   |                      |                              |                     |                                |   |                                      |
| Hemiker--Continued |                      |                              |                     |                                |   |                                      |
| HMW 83             | -- 370.0             | --                           | 0.0                 | 25.0                           | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 84             | -- 115.0             | --                           | 0.0                 | 55.0                           | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 87             | -- 310.0             | --                           | 0.0                 | --                             | 112TILL<br>110SDMH<br>112TILL<br>110SDMH<br>BEDROCK | TILL<br>CLAY<br>TILL<br>CLAY<br>ROCK |
| HMW 94             | -- 400.0             | --                           | 0.0                 | 43.0                           | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 97             | -- 240.0             | --                           | 0.0                 | 85.0                           | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 98             | -- 196.0             | --                           | 196.0               | --                             | BEDROCK   | ROCK                                 |
| HMW 99             | -- 260.0             | --                           | 0.0                 | --                             | 110SDMH<br>112TILL<br>BEDROCK                       | SAND<br>TILL<br>ROCK                 |
| HMW 101            | -- 122.0             | --                           | 0.0                 | 30.0                           | 110SDMH<br>BEDROCK                                  | SDGL<br>ROCK                         |
| HMW 102            | -- 252.0             | --                           | 104.0               | --                             | BEDROCK   | ROCK                                 |
| HMW 105            | -- 260.0             | --                           | 92.0                | --                             | BEDROCK   | ROCK                                 |
| HMW 109            | -- 235.0             | --                           | 0.0                 | 71.0                           | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 113            | -- 550.0             | --                           | 0.0                 | --                             | 110SDMH<br>112TILL<br>110SDMH<br>BEDROCK            | SDGL<br>TILL<br>CLAY<br>ROCK         |

B-98

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Aquifer code       | Litho-logic code | Description of material |
|--------------------|----------------------|------------------------------|---------------------|--------------------------------|--------------------|------------------|-------------------------|
| Merrimack County   |                      |                              |                     |                                |                    |                  |                         |
| Hemiker--Continued |                      |                              |                     |                                |                    |                  |                         |
| HMW 116            | -- 445.0             | --                           | 0.0                 | 130.0                          | 112TILL            | TILL             |                         |
|                    |                      |                              | 130.0               | 240.0                          | 110SDMH            | CLAY             |                         |
|                    |                      |                              | 240.0               | --                             | BEDROCK            | ROCK             |                         |
| HMW 120            | -- 340.0             | --                           | 0.0                 | --                             | 112TILL<br>110SDMH | TILL<br>CLAY     |                         |
|                    |                      |                              | 45.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 124            | -- 220.0             | --                           | 0.0                 | --                             | 112TILL            | TILL             |                         |
|                    |                      |                              | --                  | --                             | 110SDMH            | CLAY             |                         |
|                    |                      |                              | 65.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 125            | -- 275.0             | --                           | 0.0                 | 37.0                           | 112TILL            | TILL             |                         |
|                    |                      |                              | 37.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 126            | -- 375.0             | --                           | 0.0                 | 30.0                           | 110SDMH            | SDGL             |                         |
|                    |                      |                              | 30.0                | 54.0                           | 112TILL            | TILL             |                         |
|                    |                      |                              | 54.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 127            | -- 275.0             | --                           | 0.0                 | 25.0                           | 110SDMH            | SDGL             |                         |
|                    |                      |                              | 25.0                | 68.0                           | 112TILL            | TILL             |                         |
|                    |                      |                              | 68.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 128            | -- 415.0             | --                           | 0.0                 | --                             | 110SDMH            | SDGL             |                         |
|                    |                      |                              | --                  | --                             | 112TILL            | TILL             |                         |
|                    |                      |                              | 64.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 129            | -- 455.0             | --                           | 0.0                 | 20.0                           | 110SDMH            | SDGL             |                         |
|                    |                      |                              | 20.0                | 83.0                           | 112TILL            | TILL             |                         |
|                    |                      |                              | 83.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 130            | -- 555.0             | --                           | 0.0                 | 10.0                           | 112TILL            | TILL             |                         |
|                    |                      |                              | 10.0                | --                             | BEDROCK            | ROCK             |                         |
| HMW 131            | -- 195.0             | --                           | 0.0                 | 70.0                           | 112TILL            | TILL             |                         |
|                    |                      |                              | 70.0                | --                             | BEDROCK            | ROCK             |                         |

B-99

Appendix B.---Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Merrimack County

Henniker--Continued

|         |    |       |    |       |      |   |                                      |
|---------|----|-------|----|-------|------|---|--------------------------------------|
| HMW 132 | -- | 255.0 | -- | 0.0   | 60.0 | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 135 | -- | 310.0 | -- | 0.0   | 80.0 | 112TILL<br>110SDMN<br>112TILL<br>BEDROCK            | TILL<br>CLAY<br>TILL<br>ROCK         |
| HMW 136 | -- | 400.0 | -- | 0.0   | 22.0 | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 137 | -- | 490.0 | -- | 0.0   | --   | 110SDMN<br>112TILL<br>110SDMN<br>112TILL<br>BEDROCK | SDGL<br>TILL<br>CLAY<br>TILL<br>ROCK |
| HMW 138 | -- | 215.0 | -- | 0.0   | 20.0 | 112TILL<br>110SDMN<br>BEDROCK                       | TILL<br>CLAY<br>ROCK                 |
| HMW 139 | -- | 255.0 | -- | 0.0   | 20.0 | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 140 | -- | 320.0 | -- | 0.0   | --   | 112TILL<br>110SDMN<br>BEDROCK                       | TILL<br>SAND<br>ROCK                 |
| HMW 141 | -- | 188.0 | -- | 0.0   | 60.0 | 110SDMN<br>BEDROCK                                  | CLAY<br>ROCK                         |
| HMW 142 | -- | 105.0 | -- | 0.0   | 10.0 | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         |
| HMW 143 | -- | 302.0 | -- | 160.0 | --   | BEDROCK   | ROCK                                 |
| HMW 144 | -- | 560.0 | -- | 128.0 | --   | BEDROCK   | ROCK                                 |

B-100

Appendix B.---Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Merrimack County

Henniker--Continued

|         |    |       |    |      |       |                               |                      |
|---------|----|-------|----|------|-------|-------------------------------|----------------------|
| HMW 145 | -- | 505.0 | -- | 0.0  | 100.0 | 110SDMN<br>BEDROCK            | SDGL<br>ROCK         |
| HMW 146 | -- | 550.0 | -- | 0.0  | 130.0 | 110SDMN<br>BEDROCK            | SDGL<br>ROCK         |
| HMW 147 | -- | 180.0 | -- | 0.0  | 25.0  | 112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK |
| HMW 148 | -- | 134.0 | -- | 0.0  | 40.0  | 112TILL<br>BEDROCK            | TILL<br>ROCK         |
| HMW 150 | -- | 170.0 | -- | 0.0  | 10.0  | 112TILL<br>BEDROCK            | TILL<br>ROCK         |
| HMW 151 | -- | 320.0 | -- | 0.0  | 106.0 | 110SDMN<br>BEDROCK            | CLAY<br>ROCK         |
| HMW 152 | -- | 400.0 | -- | 0.0  | 70.0  | 110SDMN<br>BEDROCK            | CLAY<br>ROCK         |
| HMW 153 | -- | 295.0 | -- | 0.0  | --    | 110SDMN<br>112TILL<br>BEDROCK | SDGL<br>TILL<br>ROCK |
| HMW 154 | -- | 415.0 | -- | 0.0  | 120.0 | 110SDMN<br>110SDMN<br>BEDROCK | SDGL<br>CLAY<br>ROCK |
| HMW 155 | -- | 355.0 | -- | 0.0  | 270.0 | 112TILL<br>BEDROCK            | TILL<br>ROCK         |
| HMW 156 | -- | 610.0 | -- | 0.0  | --    | 112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK |
| HMW 157 | -- | 273.0 | -- | 92.0 | --    | BEDROCK                       | ROCK                 |

B-101

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number   | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material     |
|---------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|-----------------|-----------------------------|
| Merrimack County    |                      |                      |                         |                                |              |                 |                             |
| Henniker--Continued |                      |                      |                         |                                |              |                 |                             |
| HMW 158             | --                   | 302.0                | --                      | 0.0                            | 110SDMN      | CLAY            |                             |
|                     |                      |                      |                         | 125.0                          | --           | BEDROCK         | ROCK                        |
| HMW 159             | --                   | 325.0                | --                      | 0.0                            | 110SDMN      | SDGL            |                             |
|                     |                      |                      |                         | 110.0                          | --           | BEDROCK         | ROCK                        |
| HMW 160             | --                   | 320.0                | --                      | 69.0                           | --           | BEDROCK         | ROCK                        |
| HMW 161             | --                   | 420.0                | --                      | 0.0                            | 112TILL      | TILL            |                             |
|                     |                      |                      |                         | --                             | 110SDMN      | SDGL            |                             |
|                     |                      |                      |                         | --                             | 110SDMN      | CLAY            |                             |
|                     |                      |                      |                         | 159.0                          | --           | BEDROCK         | ROCK                        |
| HMW 162             | --                   | 235.0                | --                      | 0.0                            | 112TILL      | TILL            |                             |
|                     |                      |                      |                         | 70.0                           | --           | BEDROCK         | ROCK                        |
| HMW 163             | --                   | 340.0                | --                      | 0.0                            | 112TILL      | TILL            |                             |
|                     |                      |                      |                         | --                             | 110SDMN      | CLAY            |                             |
|                     |                      |                      |                         | --                             | 110SDMN      | SDGL            |                             |
|                     |                      |                      |                         | 84.0                           | --           | BEDROCK         | ROCK                        |
| HMW 164             | --                   | 200.0                | --                      | 0.0                            | 112TILL      | TILL            |                             |
|                     |                      |                      |                         | --                             | 110SDMN      | CLAY            |                             |
|                     |                      |                      |                         | 90.0                           | --           | BEDROCK         | ROCK                        |
| HMW 165             | --                   | 310.0                | --                      | 0.0                            | 112TILL      | TILL            |                             |
|                     |                      |                      |                         | 70.0                           | --           | BEDROCK         | ROCK                        |
| HMW 167             | 62.0                 | 29.0                 | 62.0                    | 0.0                            | 112TSH       | GRVL            | Medium, coarse, coarse sand |
|                     |                      |                      |                         | 35.0                           | 112TILL      | TILL            | Sandy                       |
|                     |                      |                      |                         | 62.0                           | --           | BEDROCK         | ROCK                        |
| HMW 10              | --                   | 395.0                | --                      | 0.0                            | 110SDMN      | CLAY            |                             |
|                     |                      |                      |                         | 38.0                           | --           | BEDROCK         | ROCK                        |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material   |
|-------------------|----------------------|----------------------|-------------------------|---------------------|--------------------------------|--------------|-----------------|---|
| Merrimack County  |                      |                      |                         |                     |                                |              |                 |   |
| Hopkinton         |                      |                      |                         |                     |                                |              |                 |   |
| HUA 1             | 39.0                 | --                   | 39.0                    | 0.0                 | 18.0                           | 112SRFD      | SDGL            | Pebble gravel to fine sand, mostly very coarse sand                     |
|                   |                      |                      |                         | 18.0                | 37.0                           | 112SRFD      | SAND            | Very coarse sand to fine sand, mostly medium to very coarse sand        |
|                   |                      |                      |                         | 37.0                | 39.0                           | 112TILL      | TILL            | Till, refusal at 39 feet  |
| HUA 2             | 107.0                | --                   | --                      | 0.0                 | 7.0                            | 112SRFD      | SDGL            | M sand to pebbly gravel, mostly C sand                                  |
|                   |                      |                      |                         | 7.0                 | 15.0                           | 112SRFD      | SAND            | Coarse sand to very coarse sand, some iron staining                     |
|                   |                      |                      |                         | 15.0                | 20.0                           | 112SRFD      | SAND            | Medium sand, well sorted, some iron staining                            |
|                   |                      |                      |                         | 30.0                | 58.0                           | 112SRFD      | SAND            | Fine sand to medium sand, some silt                                     |
|                   |                      |                      |                         | 58.0                | 107.0                          | 112SRFD      | SDST            | Very fine to fine sand, silt, gray, end of hole at 107 feet             |
| HUA 3             | 87.5                 | --                   | 88.0                    | 0.0                 | 87.5                           | 112SRFD      | SDGL            | Pebble gravel, mostly coarse sand, weathered bedrock at 88 feet refusal |
| HUA 4             | 49.0                 | --                   | --                      | 0.0                 | 5.0                            | 112SRFD      | SAND            | Medium sand   |
|                   |                      |                      |                         | 5.0                 | 7.0                            | 112SRFD      | SAND            | Fine sand   |
|                   |                      |                      |                         | 7.0                 | 15.0                           | 112SRFD      | SDST            | Fine sand to silt   |
|                   |                      |                      |                         | 15.0                | 43.0                           | 112TILL      | TILL            | Brown till, compact, sandy, silty, interlayered with beds of fine       |
|                   |                      |                      |                         | 43.0                | 49.0                           | 112TILL      | TILL            | Gray till, compact, silty, sandy, clayey, end of hole at 49 feet        |
| HUA 5             | 28.0                 | --                   | 28.0                    | 0.0                 | 16.0                           | 112SRFD      | SDGL            | Coarse to very coarse sand, some fine gravel                            |
|                   |                      |                      |                         | 16.0                | 25.0                           | 112SRFD      | SDGL            | Coarse sand and gravel, beds of medium to fine sand                     |
|                   |                      |                      |                         | 25.0                | 27.6                           | 112SRFD      | GRVL            | Coarse gravel   |
|                   |                      |                      |                         | 27.6                | 28.0                           | 112TILL      | TILL            | Till, hit bedrock at 28 feet  |
| HUA 7             | 88.0                 | --                   | 88.0                    | 0.0                 | 20.0                           | 112SRFD      | SDST            | Medium to fine sand, silt   |
|                   |                      |                      |                         | 20.0                | 77.0                           | 112SRFD      | SDST            | Very fine sand, silt, clay  |
|                   |                      |                      |                         | 77.0                | 88.0                           | 112SRFD      | SDGL            | Gravel, brown sandy till  |
|                   |                      |                      |                         | 88.0                | --                             | 112TILL      |                 | Refusal at 88 feet  |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Acquifer code | Litho-logic code                           | Description of material |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|---------------|--|-------------------------|
| Merrimack County     |                      |                      |                             |                                |               |  |                         |
| Hopkinton--Continued |                      |                      |                             |                                |               |  |                         |
| HUA 171              | 36.0                 | --                   | 36.0                        | 0.0                            | 20.0 112SRFD  | SDGL Brown                                 |                         |
|                      |                      |                      |                             | 20.0                           | 30.0 112SRFD  | SDGL Coarse                                |                         |
|                      |                      |                      | 30.0                        | --                             | 112SRFD       | SDGL Clay                                  |                         |
| HUA 177              | 35.0                 | --                   | 35.0                        | 0.0                            | 3.0 110SOIL   | MUCK                                       |                         |
|                      |                      |                      |                             | 3.0                            | 24.0 112SRFD  | SAND Fine, silty, with some gravel         |                         |
|                      |                      |                      |                             | 24.0                           | 29.0 112SRFD  | SAND Brown, angular, with some fine gravel |                         |
|                      |                      |                      | 29.0                        | --                             | 112SRFD       | SAND Silty, brown                          |                         |
| HUA 180              | 35.5                 | --                   | 35.5                        | 0.0                            | 20.0 112SRFD  | SDGL Coarse                                |                         |
|                      |                      |                      |                             | 20.0                           | --            | 112SRFD                                    | SDGL Coarse, brown      |
| HUA 184              | 64.0                 | --                   | 64.0                        | 0.0                            | 20.0 112SRFD  | SDGL Fine, brown                           |                         |
|                      |                      |                      |                             | 20.0                           | 32.0 112SRFD  | SAND Fine, gray                            |                         |
|                      |                      |                      |                             | 32.0                           | 47.0 112SRFD  | SDGL Fine, gray                            |                         |
|                      |                      |                      | 47.0                        | 60.0                           | 112SRFD       | SDST Gravel                                |                         |
|                      |                      |                      | 60.0                        | --                             | 112SRFD       | STCL                                       |                         |
| HUA 187              | 34.0                 | --                   | 34.0                        | 0.0                            | 5.0 112SRFD   | SDGL Brown and gray                        |                         |
|                      |                      |                      |                             | 5.0                            | 20.0 112SRFD  | SDGL Fine sand and coarse gravel           |                         |
|                      |                      |                      |                             | 20.0                           | 30.0 112SRFD  | SDGL Fine sand and medium gravel           |                         |
|                      |                      |                      | 30.0                        | --                             | 112SRFD       | SDGL Fine                                  |                         |
| HUB 1                | 29.0                 | --                   | --                          | 0.0                            | 9.0 110SDMN   | GRVL silty, sandy                          |                         |
|                      |                      |                      |                             | 9.0                            | --            | BEDROCK                                    | ROCK                    |
| HUB 2                | 25.0                 | --                   | --                          | 0.0                            | 7.0 110SDMN   | GRVL silty, sandy                          |                         |
|                      |                      |                      |                             | 7.0                            | --            | BEDROCK                                    | ROCK                    |
| HUB 3                | 27.2                 | --                   | 27.2                        | 0.0                            | 13.0 110SDMN  | SAND Fine                                  |                         |
|                      |                      |                      |                             | 13.0                           | 20.0 112SRFD  | SAND silty                                 |                         |
|                      |                      |                      | 20.0                        | --                             | 112SRFD       | GRVL silty, sandy                          |                         |
| HUB 4                | 50.0                 | --                   | 50.0                        | 0.0                            | 10.0 110SDMN  | SAND Fine, medium                          |                         |
|                      |                      |                      |                             | 10.0                           | 24.0 112SRFD  | SAND Fine, silt                            |                         |
|                      |                      |                      |                             | 24.0                           | 30.0 112SRFD  | SAND Fine, silt                            |                         |
|                      |                      |                      | 30.0                        | --                             | 112TILL       | TILL silty                                 |                         |

B-104

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Acquifer code | Litho-logic code      | Description of material  |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|---------------|-----------------------|--------------------------|
| Merrimack County     |                      |                      |                             |                                |               |                       |                          |
| Hopkinton--Continued |                      |                      |                             |                                |               |                       |                          |
| HUB 5                | 33.0                 | --                   | --                          | 0.0                            | 4.0 110ALVM   | BLDR                  |                          |
|                      |                      |                      |                             | 4.0                            | --            | 112TILL               | TILL Silty               |
| HUB 6                | 57.0                 | --                   | --                          | 0.0                            | 1.5 110SOIL   | SOIL                  |                          |
|                      |                      |                      |                             | 1.5                            | 6.0 110SDMN   | SAND Some silt        |                          |
|                      |                      |                      |                             | 6.0                            | 14.0 110SDMN  | SILT Clay, sand       |                          |
|                      |                      |                      |                             | 14.0                           | 19.0 110SDMN  | SILT                  |                          |
|                      |                      |                      | 19.0                        | --                             | 112TILL       | TILL Silty            |                          |
| HUB 7                | 37.0                 | --                   | 37.0                        | 0.0                            | 1.0 110SOIL   | SOIL                  |                          |
|                      |                      |                      |                             | 1.0                            | 14.0 110SDMN  | SAND                  |                          |
|                      |                      |                      |                             | 14.0                           | --            | 112TILL               | TILL Silty, sandy, silty |
| HUB 8                | 27.0                 | --                   | 27.0                        | 0.0                            | 8.0 110SDMN   | SDGL                  |                          |
|                      |                      |                      |                             | 8.0                            | 11.0 110SDMN  | SDGL                  |                          |
|                      |                      |                      | 11.0                        | --                             | 112TILL       | TILL                  |                          |
| HUB 9                | 6.5                  | --                   | 6.5                         | 0.0                            | 1.0 110SOIL   | SOIL                  |                          |
|                      |                      |                      |                             | 1.0                            | 4.0 110SDMN   | SAND Fine             |                          |
|                      |                      |                      |                             | 4.0                            | --            | 112TILL               | TILL                     |
| HUB 10               | 13.0                 | --                   | 13.0                        | 0.0                            | 1.0 110SDMN   | SAND                  |                          |
|                      |                      |                      |                             | 1.0                            | 4.0 110SDMN   | GRVL Silty            |                          |
|                      |                      |                      |                             | 4.0                            | --            | 112TILL               | TILL Silty, sandy        |
| HUB 11               | 44.0                 | --                   | 44.0                        | 1.0                            | 3.0 110SDMN   | MUCK                  |                          |
|                      |                      |                      |                             | 3.0                            | 5.0 110SDMN   | SAND Coarse           |                          |
|                      |                      |                      |                             | 5.0                            | 21.0 110SDMN  | SILT                  |                          |
|                      |                      |                      |                             | 21.0                           | 28.0 110SDMN  | SILT Sand, fine       |                          |
|                      |                      |                      |                             | 28.0                           | 32.0 112SRFD  | SAND Coarse           |                          |
|                      |                      |                      |                             | 32.0                           | 38.0 112SRFD  | SAND Fine             |                          |
|                      |                      |                      | 38.0                        | --                             | 112SRFD       | SAND Fine, silt       |                          |
| HUB 12               | 30.0                 | --                   | 30.0                        | 0.0                            | 5.0 110SDMN   | SAND Coarse           |                          |
|                      |                      |                      |                             | 5.0                            | 7.0 110SDMN   | SILT                  |                          |
|                      |                      |                      |                             | 7.0                            | 18.0 112SRFD  | SAND Fine             |                          |
|                      |                      |                      |                             | 18.0                           | 20.0 112SRFD  | SILT                  |                          |
|                      |                      |                      |                             | 20.0                           | 24.0 112SRFD  | SAND Silty, some silt |                          |
|                      |                      |                      | 24.0                        | --                             | 112SRFD       | SAND Fine             |                          |

B-105

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code                       | Description of material |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--|-------------------------|
| Merrimack County     |                      |                      |                             |                                |              |  |                         |
| Hopkinton--Continued |                      |                      |                             |                                |              |  |                         |
| HUB 13               | 45.0                 | --                   | 45.0                        | 0.0                            | 17.0         | 110SDMN SAND Fine                      |                         |
|                      |                      |                      |                             | 17.0                           | 32.0         | 112SRFD SAND Gravelly                  |                         |
|                      |                      |                      |                             | 32.0                           | --           | 112SRFD SAND Fine, some silt           |                         |
| HUB 14               | 37.0                 | --                   | 37.0                        | 0.0                            | 1.0          | 110SOIL SOIL                           |                         |
|                      |                      |                      |                             | 1.0                            | 25.0         | 112SRFD SAND Silty, gravelly, bouldery |                         |
|                      |                      |                      |                             | 25.0                           | --           | 112TILL TILL                           |                         |
| HUB 15               | 36.0                 | --                   | 36.0                        | 0.0                            | 3.0          | 110SDMN SAND Silty, some boulders      |                         |
|                      |                      |                      |                             | 3.0                            | 20.2         | 112SRFD SAND Silty, gravelly, bouldery |                         |
|                      |                      |                      |                             | 20.2                           | --           | BEDROCK ROCK                           |                         |
| HUB 16               | --                   | 14.0                 | 14.0                        | 0.0                            | 0.0          | 112TILL TILL Sandy                     |                         |
| HUB 17               | 26.0                 | --                   | 26.0                        | 0.0                            | 1.0          | 110SOIL SOIL                           |                         |
|                      |                      |                      |                             | 1.0                            | 10.0         | 112SRFD SAND Fine, some silt           |                         |
|                      |                      |                      |                             | 10.0                           | 15.0         | 112SRFD SAND Fine, silt                |                         |
|                      |                      |                      |                             | 15.0                           | --           | 112TILL TILL Sandy                     |                         |
| HUB 18               | 36.5                 | --                   | 36.5                        | 0.0                            | 9.5          | 110SDMN SAND Fine                      |                         |
|                      |                      |                      |                             | 9.5                            | 13.5         | 112SRFD SAND Coarse                    |                         |
|                      |                      |                      |                             | 13.5                           | 27.5         | 112SRFD SAND Fine, silt                |                         |
|                      |                      |                      |                             | 27.5                           | --           | 112TILL TILL                           |                         |
| HUB 19               | 25.0                 | --                   | --                          | 0.0                            | 1.0          | 110SOIL SOIL                           |                         |
|                      |                      |                      |                             | 1.0                            | 5.0          | 110SDMN SAND Gravelly                  |                         |
|                      |                      |                      |                             | 5.0                            | 9.5          | 110SDMN SAND Silty, bouldery, gravelly |                         |
|                      |                      |                      |                             | 9.5                            | --           | BEDROCK ROCK                           |                         |
| HUB 20               | 17.0                 | --                   | --                          | 0.0                            | 2.0          | 110SDMN MUCK                           |                         |
|                      |                      |                      |                             | 2.0                            | 7.0          | 110SDMN SAND Silty, gravelly           |                         |
|                      |                      |                      |                             | 7.0                            | 14.0         | 110SDMN SAND Silty, gravelly, bouldery |                         |
|                      |                      |                      |                             | 14.0                           | --           | BEDROCK ROCK                           |                         |
| HUB 21               | 42.0                 | --                   | 42.0                        | 0.0                            | 11.0         | 110SDMN MUCK Sand, fine                |                         |
|                      |                      |                      |                             | 11.0                           | 25.0         | 112SRFD SAND Coarse                    |                         |
|                      |                      |                      |                             | 25.0                           | 31.0         | 112SRFD SILT Sand, fine                |                         |
|                      |                      |                      |                             | 31.0                           | --           | 112TILL TILL Gravelly                  |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code                | Description of material |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|---------------------------------|-------------------------|
| Merrimack County     |                      |                      |                             |                                |              |                                 |                         |
| Hopkinton--Continued |                      |                      |                             |                                |              |                                 |                         |
| HUB 22               | 29.0                 | --                   | 29.0                        | 0.0                            | 8.0          | 110SDMN SAND Fine, medium       |                         |
|                      |                      |                      |                             | 8.0                            | 15.0         | 112SRFD SILT Sand, fine         |                         |
|                      |                      |                      |                             | 15.0                           | --           | 112TILL TILL Gravelly           |                         |
| HUB 23               | 31.5                 | --                   | 31.5                        | 0.0                            | 10.0         | 110SDMN SAND Fine, silty        |                         |
|                      |                      |                      |                             | 10.0                           | 25.0         | 112SRFD SILT Fine, sandy        |                         |
|                      |                      |                      |                             | 25.0                           | --           | 112TILL TILL Sandy, gravelly    |                         |
| HUB 24               | 21.0                 | --                   | 21.0                        | 0.0                            | 5.0          | 110SDMN SILT Sandy              |                         |
|                      |                      |                      |                             | 5.0                            | 14.0         | 112SRFD SILT Sand, fine, coarse |                         |
|                      |                      |                      |                             | 14.0                           | --           | 112SRFD SAND Silty, gravelly    |                         |
| HUB 25               | --                   | --                   | --                          | 0.0                            | 10.0         | 110SDMN SAND Fine, silt         |                         |
|                      |                      |                      |                             | 10.0                           | 15.0         | 112SRFD SAND Fine, silt         |                         |
|                      |                      |                      |                             | 15.0                           | 30.0         | 112SRFD SILT                    |                         |
|                      |                      |                      |                             | 30.0                           | --           | 112SRFD SAND Silty, gravelly    |                         |
| HUB 26               | 29.0                 | --                   | --                          | 0.0                            | 2.0          | 110SOIL SOIL                    |                         |
|                      |                      |                      |                             | 2.0                            | 5.0          | 110SDMN SAND Silt               |                         |
|                      |                      |                      |                             | 5.0                            | --           | 112TILL TILL Sandy, gravelly    |                         |
| HUB 27               | 7.8                  | --                   | 7.8                         | 0.0                            | 2.0          | 110SOIL SOIL Boulders           |                         |
|                      |                      |                      |                             | 2.0                            | --           | 112TILL TILL Sandy, gravelly    |                         |
| HUB 28               | 22.0                 | --                   | 22.0                        | 0.0                            | 4.0          | 110SDMN SAND Silty, some silt   |                         |
|                      |                      |                      |                             | 4.0                            | --           | 112TILL TILL Sandy, gravelly    |                         |
| HUB 29               | 30.0                 | --                   | --                          | 0.0                            | 2.0          | 110SDMN MUCK                    |                         |
|                      |                      |                      |                             | 2.0                            | 5.0          | 110SDMN SAND Silty, gravelly    |                         |
|                      |                      |                      |                             | 5.0                            | 10.0         | 110SDMN SAND Silty              |                         |
|                      |                      |                      |                             | 10.0                           | --           | 112SRFD SAND Silty, gravelly    |                         |
| HUB 30               | 49.0                 | --                   | --                          | 0.0                            | 8.5          | 110SDMN SAND Fine               |                         |
|                      |                      |                      |                             | 8.5                            | 25.0         | 112SRFD SILT Sand, fine         |                         |
|                      |                      |                      |                             | 25.0                           | 30.0         | 112SRFD GRVL Silty              |                         |
|                      |                      |                      |                             | 30.0                           | --           | BEDROCK ROCK                    |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Litho-logic code | Description of material |
|----------------------|----------------------|----------------------|-------------------------|------------------------|-----------------------------|------------------------|-----------------------------|----------------------|-------------------------|------------------------|-----------------------------|------------------|-------------------------|
| Merrimack County     |                      |                      |                         |                        |                             |                        |                             |                      |                         |                        |                             |                  |                         |
| Hopkinton--Continued |                      |                      |                         |                        |                             |                        |                             |                      |                         |                        |                             |                  |                         |
| HUB 31               | 87.0                 | 46.0                 | 87.0                    | 0.0                    | 24.0                        | 110SDMN                | SAND                        | Silty                |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 24.0                   | 35.0                        | 112SRFD                | SILT                        |                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 35.0                   | 45.0                        | 112SRFD                | SAND                        | Silty                |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 45.0                   | 50.0                        | 112SRFD                | SILT                        | Sandy                |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 50.0                   | 55.0                        | 112SRFD                | SAND                        | Silty                |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 55.0                   | 60.0                        | 112SRFD                | SILT                        |                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 60.0                   | 75.0                        | 112SRFD                | SAND                        | Fine, silty          |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 75.0                   | 85.0                        | 112SRFD                | SILT                        |                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 85.0                   | --                          | 112TILL                | TILL                        | Sandy                |                         |                        |                             |                  |                         |
| HUB 32               | 65.0                 | --                   | 65.0                    | 0.0                    | 14.0                        | 110SDMN                | SAND                        | Fine, silty          |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 14.0                   | 25.0                        | 112SRFD                | SAND                        | Coarse               |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 25.0                   | 50.0                        | 112SRFD                | SAND                        | Fine, silty          |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 50.0                   | --                          | 112SRFD                | SILT                        | Clay                 |                         |                        |                             |                  |                         |
| HUB 33               | 21.5                 | --                   | --                      | 0.0                    | 4.5                         | 110SDMN                | SAND                        | Coarse               |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 4.5                    | 8.7                         | 110SDMN                | SAND                        | Gravel, silt         |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 8.7                    | 16.7                        | 110SDMN                | CLAY                        | Sand, fine           |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 16.7                   | --                          | 112TILL                | TILL                        |                      |                         |                        |                             |                  |                         |
| HUB 34               | 15.0                 | --                   | --                      | 0.0                    | 9.5                         | 110SDMN                | SDGL                        | Little clay          |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 9.5                    | 12.0                        | 112SRFD                | SAND                        | Fine, little clay    |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 12.0                   | --                          | 112TILL                | TILL                        | Sandy                |                         |                        |                             |                  |                         |
| HUB 40               | 2.5                  | --                   | 2.5                     | 0.0                    | 2.4                         | 112SRFD                | SAND                        |                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 2.4                    | --                          | BEDROCK                | ROCK                        |                      |                         |                        |                             |                  |                         |
| HUB 41               | 8.3                  | --                   | 8.2                     | 0.0                    | 4.0                         | 112SRFD                | SDST                        |                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 4.0                    | 8.2                         | 112SRFD                | SAND                        | Fine to coarse       |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 8.2                    | --                          | BEDROCK                | ROCK                        |                      |                         |                        |                             |                  |                         |
| HUB 42               | 8.0                  | --                   | 8.0                     | 0.0                    | 7.0                         | 112SRFD                | SAND                        | Pavement at 2.5 feet |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 7.0                    | --                          | BEDROCK                | ROCK                        |                      |                         |                        |                             |                  |                         |
| HUB 43               | 8.0                  | --                   | 8.0                     | 0.0                    | 7.0                         | 112SRFD                | GRVL                        | Top is fill          |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 7.0                    | --                          | BEDROCK                | ROCK                        |                      |                         |                        |                             |                  |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Depth of well (feet)                       | Depth to refusal (feet) | Depth to bottom (feet) | Depth to top of unit (feet) | Litho-logic code | Description of material |
|----------------------|----------------------|----------------------|-------------------------|------------------------|-----------------------------|------------------------|-----------------------------|--|-------------------------|------------------------|-----------------------------|------------------|-------------------------|
| Merrimack County     |                      |                      |                         |                        |                             |                        |                             |  |                         |                        |                             |                  |                         |
| Hopkinton--Continued |                      |                      |                         |                        |                             |                        |                             |  |                         |                        |                             |                  |                         |
| HUB 44               | 7.0                  | --                   | 7.0                     | 0.0                    | 6.0                         | 112TILL                | TILL                        |  |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 6.0                    | --                          | BEDROCK                | ROCK                        |  |                         |                        |                             |                  |                         |
| HUB 70               | 130.0                | --                   | --                      | 0.0                    | 1.0                         | 112SRFD                | GRVL                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 1.0                    | 5.0                         | 112SRFD                | SILT                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 5.0                    | 115.0                       | 112TILL                | TILL                        | Gravelly, clayey, silty, sand              |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 115.0                  | --                          | BEDROCK                | ROCK                        |  |                         |                        |                             |                  |                         |
| HUB 71               | 25.0                 | --                   | --                      | 0.0                    | 2.0                         | 110SOIL                | SOIL                        |  |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 2.0                    | 17.0                        | 112SRFD                | SAND                        | Silty, fine to medium                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 17.0                   | --                          | 112SRFD                | SILT                        | Clayey, sandy, stratified                  |                         |                        |                             |                  |                         |
| HUB 72               | 120.0                | --                   | --                      | 0.0                    | 4.0                         | 112SRFD                | SAND                        | Coarse to medium, gravelly, with cobbles   |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 4.0                    | 100.0                       | 112TILL                | TILL                        | Gravelly, silty, clayey sand               |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 100.0                  | --                          | BEDROCK                | ROCK                        |  |                         |                        |                             |                  |                         |
| HUB 73               | 59.0                 | --                   | --                      | 0.0                    | 2.0                         | 110SOIL                | SOIL                        |  |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 2.0                    | 29.5                        | 112SRFD                | SDGL                        | Gravelly silty sand with cobbles           |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 29.0                   | 45.0                        | 112SRFD                | SAND                        | Medium to fine, silty, flow at top of unit |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 45.0                   | 48.0                        | 112SRFD                | GRVL                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 48.0                   | --                          | 112TILL                | SAND                        | Gravelly, silty with clay layers           |                         |                        |                             |                  |                         |
| HUB 74               | 60.0                 | --                   | --                      | 0.0                    | 4.0                         | 112SRFD                | SAND                        | Gravelly, medium to fine                   |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 4.0                    | 18.0                        | 112TILL                | SAND                        | Gravelly, silty                            |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 18.0                   | 38.0                        | 112TILL                | SAND                        | Gravelly, silty, clayey, with cobbles      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 38.0                   | 40.0                        | 112SRFD                | GRVL                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 40.0                   | --                          | BEDROCK                | ROCK                        |  |                         |                        |                             |                  |                         |
| HUB 75               | 90.0                 | --                   | --                      | 0.0                    | 1.0                         | 110SOIL                | SOIL                        |  |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 1.0                    | 15.0                        | 112SRFD                | SAND                        | Silty, gravelly                            |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 15.0                   | 20.0                        | 112SRFD                | SAND                        | Silt layers                                |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 20.0                   | 25.0                        | 112SRFD                | SILT                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 25.0                   | 27.0                        | 112SRFD                | SILT                        | Gravelly, sandy                            |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 27.0                   | 35.0                        | 112SRFD                | SILT                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 35.0                   | 40.0                        | 112SRFD                | SAND                        | Gravelly, silty                            |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 40.0                   | 50.0                        | 112SRFD                | SILT                        | Sandy                                      |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 50.0                   | 60.0                        | 112SRFD                | SILT                        | Sandy, clayey                              |                         |                        |                             |                  |                         |
|                      |                      |                      |                         | 60.0                   | 62.0                        | 112SRFD                | SILT                        | Gravelly, sandy, clayey                    |                         |                        |                             |                  |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code                           | Description of material |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--|-------------------------|
| Merrimack County     |                      |                      |                             |                                |              |  |                         |
| Hopkinton--Continued |                      |                      |                             |                                |              |  |                         |
| HUB 75--Continued    |                      |                      |                             |                                |              |  |                         |
|                      |                      | 62.0                 | 78.0                        | --                             | 112SRFD      | CLAY Silty                                 |                         |
|                      |                      |                      |                             |                                | 112TILL      | SAND Gravelly, silty, clayey               |                         |
| HUB 76               | 44.0                 | --                   | --                          | 3.0                            | 112SRFD      | SAND                                       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty, medium to fine                 |                         |
|                      |                      |                      |                             |                                | 112TILL      | GRVL Silty, sandy                          |                         |
| HUB 77               | 48.0                 | --                   | --                          | 0.0                            | 110SOIL      | SOIL                                       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Medium to fine                        |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112TILL      | SAND Silty, gravelly, with cobbles         |                         |
|                      |                      |                      |                             |                                | BEDROCK      | ROCK                                       |                         |
| HUB 78               | 45.0                 | --                   | --                          | 0.0                            | 112SRFD      | SAND Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND                                       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty, fine                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly                              |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty, stratified                     |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty, gravelly, with cobbles         |                         |
| HUB 79               | 100.0                | --                   | --                          | 0.0                            | 112SRFD      | SAND Silty, gravelly, clayey               |                         |
|                      |                      |                      |                             |                                | 112SRFD      | STCL Silty                                 |                         |
| HUB 80               | 50.0                 | --                   | --                          | 0.0                            | 112SRFD      | SAND Fine, silty                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Fine, some silt                       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
| HUB 83               | 50.0                 | --                   | --                          | 0.0                            | 112SRFD      | SAND Gravelly, silty, with cobbles         |                         |
|                      |                      |                      |                             |                                | 112TILL      | SAND Gravelly, silty, clayey, with cobbles |                         |
| HUB 84               | 85.0                 | --                   | --                          | 0.0                            | 110SOIL      | SOIL                                       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | GRVL Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly                              |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Medium to fine sand, some silt layers |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code                           | Description of material |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|--|-------------------------|
| Merrimack County     |                      |                      |                             |                                |              |  |                         |
| Hopkinton--Continued |                      |                      |                             |                                |              |  |                         |
| HUB 84--Continued    |                      |                      |                             |                                |              |  |                         |
|                      |                      | 65.0                 | 74.0                        | 74.0                           | 112SRFD      | SAND Fine, stratified                      |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Fine, silty                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
| HUB 85               | 40.0                 | --                   | --                          | 0.0                            | 112SRFD      | SAND Medium to fine, silty                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty, stratified                     |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty, clayey, stratified             |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly, with cobbles                |                         |
|                      |                      |                      |                             |                                | BEDROCK      | ROCK                                       |                         |
| HUB 86               | 70.0                 | --                   | --                          | 0.0                            | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Medium to fine, silty                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | GRVL Silty, sandy                          |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty, gravelly                       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly, silty, medium to fine       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly, silty, medium to fine       |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly, silty, with cobbles         |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Gravelly, silty, with cobbles         |                         |
|                      |                      |                      |                             |                                | 112TILL      | SAND Gravelly, silty, clayey, with cobbles |                         |
| HUB 87               | 68.0                 | --                   | --                          | 0.0                            | 112SRFD      | SAND Fine, silty                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty, fine                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Medium                                |                         |
|                      |                      |                      |                             |                                | 112SRFD      | GRVL Silty, sandy, with cobbles            |                         |
|                      |                      |                      |                             |                                | BEDROCK      | ROCK                                       |                         |
| HUB 88               | 81.0                 | --                   | --                          | 0.0                            | 112SRFD      | SAND Fine to medium, silty                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Medium to fine                        |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Fine, sandy                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SAND Silty, fine                           |                         |
|                      |                      |                      |                             |                                | 112SRFD      | SILT Silty                                 |                         |
|                      |                      |                      |                             |                                | BEDROCK      | ROCK                                       |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code                                    | Description of material |
|----------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|---|-------------------------|
| Merrimack County     |                      |                      |                         |                                |              |   |                         |
| Hopkinton--Continued |                      |                      |                         |                                |              |   |                         |
| HUB 89               | 134.0                | --                   | --                      | 0.0                            | 3.0          | 112SRFD GRVL Silty                                  |                         |
|                      |                      |                      |                         | 3.0                            | 24.0         | 112TILL SAND Gravelly, silty, clayey, (till in log) |                         |
|                      |                      |                      |                         | 24.0                           | 25.0         | 112SRFD SAND Silty, fine                            |                         |
|                      |                      |                      |                         | 25.0                           | 27.0         | 112TILL SAND Gravelly, silty, clayey, (till in log) |                         |
|                      |                      |                      |                         | 27.0                           | 32.0         | 112SRFD CLAY Clay and sandy silt                    |                         |
|                      |                      |                      |                         | 32.0                           | 35.0         | 112TILL SAND Silty, gravelly, clayey, (till in log) |                         |
|                      |                      |                      |                         | 35.0                           | 39.0         | 112SRFD SAND Silty, some gravel                     |                         |
|                      |                      |                      |                         | 102.0                          | --           | BEDROCK ROCK  |                         |
| HUB 151              | 5.0                  | --                   | 5.0                     | 0.0                            | 4.0          | 112SRFD SDGL Fill                                   |                         |
|                      |                      |                      |                         | 4.0                            | --           | BEDROCK ROCK  |                         |
| HUB 152              | 37.0                 | --                   | 37.0                    | 0.0                            | 10.0         | 112SRFD SDGL  |                         |
|                      |                      |                      |                         | 10.0                           | 20.0         | 112SRFD SAND Fine, trace clay                       |                         |
|                      |                      |                      |                         | 20.0                           | 30.0         | 112SRFD STCL  |                         |
|                      |                      |                      |                         | 30.0                           | --           | 112TILL TILL  |                         |
| HUB 153              | 98.0                 | --                   | 98.0                    | 0.0                            | 18.0         | 112SRFD SDGL  |                         |
|                      |                      |                      |                         | 18.0                           | 35.0         | 112SRFD SAND Very fine                              |                         |
|                      |                      |                      |                         | 35.0                           | 50.0         | 112SRFD SDCL Silty                                  |                         |
|                      |                      |                      |                         | 50.0                           | 80.0         | 112SRFD STCL  |                         |
|                      |                      |                      |                         | 80.0                           | --           | 112SRFD CLAY Gray                                   |                         |
| HUB 154              | 36.0                 | --                   | 36.0                    | 0.0                            | 19.0         | 112SRFD SDGL  |                         |
|                      |                      |                      |                         | 19.0                           | --           | 112TILL TILL Very tight                             |                         |
| HUB 155              | 18.0                 | --                   | 18.0                    | 0.0                            | 6.0          | 112SRFD SDGL  |                         |
|                      |                      |                      |                         | 6.0                            | --           | 112TILL TILL  |                         |
| HUB 156              | 19.5                 | --                   | 19.5                    | 0.0                            | 10.0         | 112SRFD SAND Fine                                   |                         |
|                      |                      |                      |                         | 10.0                           | --           | 112SRFD SDCL Fine                                   |                         |
| HUB 158              | 92.0                 | --                   | 92.0                    | 0.0                            | 22.0         | 112SRFD SDGL  |                         |
|                      |                      |                      |                         | 22.0                           | 35.0         | 112SRFD SAND Fine                                   |                         |
|                      |                      |                      |                         | 35.0                           | 50.0         | 112SRFD SAND Silty                                  |                         |
|                      |                      |                      |                         | 50.0                           | 60.0         | 112SRFD SAND Trace clay                             |                         |
|                      |                      |                      |                         | 60.0                           | 70.0         | 112SRFD SAND Silty                                  |                         |
|                      |                      |                      |                         | 70.0                           | 83.0         | 112SRFD SAND Fine                                   |                         |
|                      |                      |                      |                         | 83.0                           | --           | 112SRFD STCL Gray                                   |                         |

B-112

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code                 | Litho-logic code | Description of material |
|----------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|------------------------------|------------------|-------------------------|
| Merrimack County     |                      |                      |                         |                             |                                |                              |                  |                         |
| Hopkinton--Continued |                      |                      |                         |                             |                                |                              |                  |                         |
| HUB 160              | 128.0                | --                   | --                      | 0.0                         | 19.0                           | 112TILL TILL Hardpan         |                  |                         |
|                      |                      |                      |                         | 19.0                        | 30.0                           | 112SRFD CLAY Gray            |                  |                         |
|                      |                      |                      |                         | 30.0                        | 40.0                           | 112SRFD SAND Silty           |                  |                         |
|                      |                      |                      |                         | 40.0                        | 50.0                           | 112SRFD SDST Fine            |                  |                         |
|                      |                      |                      |                         | 50.0                        | 70.0                           | 112SRFD SDCL In layers       |                  |                         |
|                      |                      |                      |                         | 70.0                        | 95.0                           | 112SRFD SDCL Silty, brown    |                  |                         |
|                      |                      |                      |                         | 95.0                        | 107.0                          | 112SRFD SDST Gray            |                  |                         |
|                      |                      |                      |                         | 107.0                       | 122.0                          | 112SRFD CLAY Gray            |                  |                         |
|                      |                      |                      |                         | 122.0                       | --                             | 112TILL SDCL Firm, gray      |                  |                         |
| HUB 162              | 73.0                 | --                   | 73.0                    | 0.0                         | 12.0                           | 112SRFD SDGL                 |                  |                         |
|                      |                      |                      |                         | 12.0                        | 29.0                           | 112SRFD SAND Silty           |                  |                         |
|                      |                      |                      |                         | 29.0                        | 50.0                           | 112SRFD CLAY Gray, silty     |                  |                         |
|                      |                      |                      |                         | 50.0                        | 60.0                           | 112SRFD SDCL Silty, gray     |                  |                         |
|                      |                      |                      |                         | 60.0                        | --                             | 112SRFD CLAY Gray            |                  |                         |
| HUB 163              | 85.0                 | --                   | 85.0                    | 0.0                         | 20.0                           | 112SRFD SDGL Medium          |                  |                         |
|                      |                      |                      |                         | 20.0                        | 30.0                           | 112SRFD SAND Fine, gray      |                  |                         |
|                      |                      |                      |                         | 30.0                        | 48.0                           | 112SRFD SDCL Fine, gray      |                  |                         |
|                      |                      |                      |                         | 48.0                        | 68.0                           | 112SRFD CLAY Blue            |                  |                         |
|                      |                      |                      |                         | 68.0                        | 74.0                           | 112SRFD STCL Blue            |                  |                         |
|                      |                      |                      |                         | 74.0                        | --                             | 112TILL TILL                 |                  |                         |
| HUB 164              | 96.0                 | --                   | 96.0                    | 0.0                         | 20.0                           | 112SRFD SDGL Brown           |                  |                         |
|                      |                      |                      |                         | 20.0                        | 30.0                           | 112SRFD SAND Silty, gray     |                  |                         |
|                      |                      |                      |                         | 30.0                        | 63.0                           | 112SRFD SDST Fine, gray      |                  |                         |
|                      |                      |                      |                         | 63.0                        | 78.0                           | 112SRFD CLAY Gray            |                  |                         |
|                      |                      |                      |                         | 78.0                        | 84.0                           | 112SRFD SDGL Clay, gray      |                  |                         |
|                      |                      |                      |                         | 84.0                        | --                             | 112TILL TILL Hardpan         |                  |                         |
| HUB 165              | 68.0                 | --                   | 68.0                    | 0.0                         | 17.0                           | 112SRFD SDGL Boulders, brown |                  |                         |
|                      |                      |                      |                         | 17.0                        | 25.0                           | 112SRFD SAND Fine            |                  |                         |
|                      |                      |                      |                         | 25.0                        | 40.0                           | 112SRFD SAND Silty, gray     |                  |                         |
|                      |                      |                      |                         | 40.0                        | 52.0                           | 112SRFD CLAY Gray            |                  |                         |
|                      |                      |                      |                         | 52.0                        | 68.0                           | 112TILL TILL Hardpan         |                  |                         |

B-113

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code  | Description of material   |
|----------------------|----------------------|----------------------|-------------------------|--------------------------------|---|---|
| Merrimack County     |                      |                      |                         |                                |   |   |
| Hopkinton--Continued |                      |                      |                         |                                |   |   |
| HUB 166              | 46.0                 | --                   | 46.0                    | 0.0                            | 21.0 112SRFD<br>25.0 112SRFD<br>41.0 112SRFD<br>41.0 -- 112TILL | SDGL Brown<br>SILT Brown<br>SILT Gray<br>TILL Hardpan                         |
| HUB 167              | 57.0                 | --                   | 57.0                    | 0.0                            | 19.0 112SRFD<br>26.0 112SRFD<br>45.0 -- 112TILL                 | SDGL Brown<br>SILT Brown<br>SILT Gray<br>TILL Hardpan                         |
| HUB 168              | 59.0                 | --                   | 59.0                    | 0.0                            | 14.0 112SRFD<br>30.0 112SRFD<br>56.0 -- 112TILL                 | SDGL Brown<br>SILT Brown<br>SILT Very fine, gray<br>TILL Hardpan              |
| HUB 169              | 52.0                 | --                   | 52.0                    | 0.0                            | 3.0 111S01L<br>15.0 112SRFD<br>30.0 112SRFD<br>47.0 -- 112TILL  | MUCK<br>SDGL Brown<br>SAND Silty, brown<br>SDGL Silty, gray<br>TILL Hardpan   |
| HUB 170              | 65.0                 | --                   | 65.0                    | 0.0                            | 20.0 112SRFD<br>40.0 112SRFD<br>60.0 -- 112SRFD                 | SDGL Brown<br>SAND Fine, brown<br>SAND Very fine, brown<br>SAND Silty, brown  |
| HUB 172              | 61.0                 | --                   | 61.0                    | 0.0                            | 20.0 112SRFD<br>35.0 112SRFD<br>50.0 -- 112SRFD                 | SDGL Brown<br>SILT Fine, brown<br>STCL Gray<br>SILT Some angular stones, gray |
| HUB 173              | 65.0                 | --                   | 65.0                    | 0.0                            | 23.0 112SRFD<br>39.0 112SRFD<br>59.0 112SRFD<br>65.0 112SRFD    | SDGL Brown<br>STCL Brown<br>SILT Gray<br>STCL Gray                            |

B-114

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to Aquifer (feet)   | Litho-logic code   | Description of material |
|----------------------|----------------------|----------------------|-------------------------|-----------------------------|---|--|-------------------------|
| Merrimack County     |                      |                      |                         |                             |   |  |                         |
| Hopkinton--Continued |                      |                      |                         |                             |   |  |                         |
| HUB 174              | 57.0                 | --                   | 57.0                    | 0.0                         | 21.0 112SRFD<br>28.0 112SRFD<br>34.0 112SRFD<br>47.0 -- 112SRFD   | SDGL Brown<br>SAND Fine, brown<br>SILT Brown<br>STCL Brown<br>SDST Clay, gray  |                         |
| HUB 178              | 25.5                 | --                   | 25.5                    | 0.0                         | 3.0 110S01L<br>21.0 112SRFD<br>21.0 -- 112TILL  | MUCK<br>CLAY Silty, sandy, brown<br>TILL Hardpan   |                         |
| HUB 179              | 19.0                 | --                   | 19.0                    | 0.0                         | 5.0 112SRFD<br>5.0 -- 112TILL   | SDGL Boulders<br>TILL Hardpan  |                         |
| HUB 181              | 22.0                 | --                   | 22.0                    | 0.0                         | 2.0 110S01L<br>5.6 112SRFD<br>5.6 -- 112TILL  | MUCK<br>SDGL Brown<br>TILL Hardpan and boulders  |                         |
| HUB 182              | 86.0                 | --                   | 86.0                    | 1.0                         | 21.0 112SRFD<br>28.0 112SRFD<br>35.0 112SRFD<br>42.0 112SRFD<br>56.0 112SRFD<br>70.0 112SRFD<br>77.0 -- 112SRFD | SDGL Fine<br>SDGL Medium, silty<br>SDGL Fine sand, medium gravel<br>SDGL Fine sand, medium gravel, trace clay<br>SAND Fine, brown<br>SAND Fine, brown, trace clay<br>SDCL Fine, brown, some silt<br>SAND Fine, some gravel and clay, brown |                         |
| HUB 183              | 19.0                 | --                   | 19.0                    | 0.0                         | 0.0 112SRFD   | SDGL Fine, brown   |                         |
| HUB 185              | 69.0                 | --                   | 69.0                    | 0.0                         | 21.0 112SRFD<br>28.0 112SRFD<br>56.0 112SRFD<br>63.0 -- 112SRFD   | SDGL Fine, brown<br>SAND Fine, brown<br>SDGL Silty, fine, brown<br>SILT Silty and fine gravel<br>STCL Brown  |                         |
| HUB 186              | 53.0                 | --                   | 53.0                    | 0.0                         | 24.0 112SRFD<br>29.0 112SRFD<br>43.0 112SRFD<br>43.0 -- 112SRFD   | SDGL Fine, brown<br>SILT Brown<br>SILT Gray<br>SDST Medium, gray   |                         |

B-115

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| HUB 187           | --                   | --                   | --                          | 5.0                            | 112SRFD          | SAND Silty, fine        |
|                   |                      |                      | 5.0                         | 7.0                            | 112SRFD          | SAND Medium to fine     |
|                   |                      |                      | 7.0                         | 35.0                           | 112SRFD          | SILT Silty, laminated   |
|                   |                      |                      | 35.0                        | 44.0                           | 112SRFD          | SAND Silty, fine        |
|                   |                      |                      | 45.0                        | --                             | BEDROCK          | ROCK                    |
| HUB 3             | --                   | 140.0                | --                          | 80.0                           | BEDROCK          | ROCK --                 |
| HUB 5             | --                   | 204.0                | --                          | 168.0                          | BEDROCK          | ROCK --                 |
| HUB 6             | --                   | 170.0                | --                          | 80.0                           | BEDROCK          | ROCK --                 |
| HUB 7             | --                   | 137.0                | --                          | 17.0                           | BEDROCK          | ROCK --                 |
| HUB 8             | --                   | 100.0                | --                          | 2.0                            | BEDROCK          | ROCK --                 |
| HUB 9             | --                   | 176.0                | --                          | 7.0                            | BEDROCK          | ROCK --                 |
| HUB 10            | --                   | 282.0                | --                          | 25.0                           | BEDROCK          | ROCK --                 |
| HUB 11            | --                   | 192.0                | --                          | 89.0                           | BEDROCK          | ROCK --                 |
| HUB 12            | --                   | 163.0                | --                          | 90.0                           | BEDROCK          | ROCK --                 |
| HUB 13            | --                   | 265.0                | --                          | 172.0                          | BEDROCK          | ROCK --                 |
| HUB 15            | --                   | 75.0                 | --                          | 11.0                           | BEDROCK          | ROCK --                 |
| HUB 16            | --                   | 120.0                | --                          | 22.0                           | BEDROCK          | ROCK --                 |
| HUB 17            | --                   | 235.0                | --                          | 136.0                          | BEDROCK          | ROCK --                 |
| HUB 18            | --                   | 374.0                | --                          | 70.0                           | BEDROCK          | ROCK --                 |
| HUB 19            | --                   | 105.0                | --                          | 3.0                            | BEDROCK          | ROCK --                 |
| HUB 20            | --                   | 130.0                | --                          | 25.0                           | BEDROCK          | ROCK --                 |

Merrimack County

Hopkinton--Continued

|        |      |       |      |      |         |                              |
|--------|------|-------|------|------|---------|------------------------------|
| HUB 21 | --   | 207.0 | --   | 16.0 | BEDROCK | ROCK --                      |
| HUB 22 | --   | 109.0 | --   | 0.0  | BEDROCK | ROCK --                      |
| HUB 23 | --   | 65.0  | --   | 8.0  | BEDROCK | ROCK --                      |
| HUB 24 | --   | 193.0 | --   | 93.0 | BEDROCK | ROCK --                      |
| HUB 25 | --   | 112.0 | --   | 33.0 | BEDROCK | ROCK --                      |
| HUB 26 | --   | 120.0 | --   | 18.0 | BEDROCK | ROCK --                      |
| HUB 27 | 21.5 | --    | 21.5 | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 1.0  | 112SRFD | SDGL Clay                    |
|        |      |       |      | 4.5  | 112SRFD | SDGL Broken rock, trace clay |
| HUB 28 | 47.3 | --    | --   | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 1.5  | 112SRFD | SDGL Boulders                |
|        |      |       |      | 5.5  | 112SRFD | SDGL Boulders                |
|        |      |       |      | 33.5 | 112SRFD | SDGL Boulders                |
|        |      |       |      | 40.0 | 112SRFD | SDGL Some fine sand and silt |
|        |      |       |      | 40.0 | 112SRFD | SDGL Clay layers             |
| HUB 29 | 41.5 | --    | 41.5 | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 0.8  | 112SRFD | SDGL                         |
|        |      |       |      | 24.5 | 112SRFD | SDGL Some fine sand          |
|        |      |       |      | 31.5 | 112SRFD | SDGL Sand, clay, and gravel  |
|        |      |       |      | 31.5 | 112TILL | TILL                         |
| HUB 30 | 53.0 | --    | 53.0 | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 1.5  | 112SRFD | SDGL Some stones             |
|        |      |       |      | 10.7 | 112SRFD | SDGL                         |
|        |      |       |      | 30.5 | 112SRFD | SDGL Trace clay or silt      |
|        |      |       |      | 30.5 | 112SRFD | SDGL Clay and silt layers    |
|        |      |       |      | 44.2 | 112SRFD | SDGL                         |
| HUB 31 | 46.7 | --    | 46.7 | 0.0  | 111SWMP | PEAT and clay                |
|        |      |       |      | 4.0  | 112SRFD | SDGL                         |
|        |      |       |      | 25.8 | 112SRFD | SDGL Clay layers             |
|        |      |       |      | 35.6 | 112SRFD | SDGL                         |
|        |      |       |      | 35.6 | 112SRFD | SDGL                         |
|        |      |       |      | 45.0 | 112SRFD | SAND Some gravel             |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|

Merrimack County

Hopkinton--Continued

|        |      |       |      |      |         |                              |
|--------|------|-------|------|------|---------|------------------------------|
| HUB 21 | --   | 207.0 | --   | 16.0 | BEDROCK | ROCK --                      |
| HUB 22 | --   | 109.0 | --   | 0.0  | BEDROCK | ROCK --                      |
| HUB 23 | --   | 65.0  | --   | 8.0  | BEDROCK | ROCK --                      |
| HUB 24 | --   | 193.0 | --   | 93.0 | BEDROCK | ROCK --                      |
| HUB 25 | --   | 112.0 | --   | 33.0 | BEDROCK | ROCK --                      |
| HUB 26 | --   | 120.0 | --   | 18.0 | BEDROCK | ROCK --                      |
| HUB 27 | 21.5 | --    | 21.5 | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 1.0  | 112SRFD | SDGL Clay                    |
|        |      |       |      | 4.5  | 112SRFD | SDGL Broken rock, trace clay |
| HUB 28 | 47.3 | --    | --   | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 1.5  | 112SRFD | SDGL Boulders                |
|        |      |       |      | 5.5  | 112SRFD | SDGL Boulders                |
|        |      |       |      | 33.5 | 112SRFD | SDGL Boulders                |
|        |      |       |      | 40.0 | 112SRFD | SDGL Some fine sand and silt |
|        |      |       |      | 40.0 | 112SRFD | SDGL Clay layers             |
| HUB 29 | 41.5 | --    | 41.5 | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 0.8  | 112SRFD | SDGL                         |
|        |      |       |      | 24.5 | 112SRFD | SDGL Some fine sand          |
|        |      |       |      | 31.5 | 112SRFD | SDGL Sand, clay, and gravel  |
|        |      |       |      | 31.5 | 112TILL | TILL                         |
| HUB 30 | 53.0 | --    | 53.0 | 0.0  | 111SOIL | SOIL                         |
|        |      |       |      | 1.5  | 112SRFD | SDGL Some stones             |
|        |      |       |      | 10.7 | 112SRFD | SDGL                         |
|        |      |       |      | 30.5 | 112SRFD | SDGL Trace clay or silt      |
|        |      |       |      | 30.5 | 112SRFD | SDGL Clay and silt layers    |
|        |      |       |      | 44.2 | 112SRFD | SDGL                         |
| HUB 31 | 46.7 | --    | 46.7 | 0.0  | 111SWMP | PEAT and clay                |
|        |      |       |      | 4.0  | 112SRFD | SDGL                         |
|        |      |       |      | 25.8 | 112SRFD | SDGL Clay layers             |
|        |      |       |      | 35.6 | 112SRFD | SDGL                         |
|        |      |       |      | 35.6 | 112SRFD | SDGL                         |
|        |      |       |      | 45.0 | 112SRFD | SAND Some gravel             |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material                 |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------|---|
| HUM 32            | 23.0                 | --                   | 23.0                        | 0.0                            | --              | 112SRFD SDGL                            |
| HUM 34            | 9.5                  | --                   | 9.5                         | 0.0                            | 1.0             | 111SOIL SOIL                            |
|                   |                      |                      |                             | 1.0                            | 4.0             | 112SRFD SDGL                            |
|                   |                      |                      |                             | 4.0                            | --              | 112SRFD SDGL Sand, gravel, and boulders |
| HUM 35            | 29.6                 | --                   | 29.6                        | 0.0                            | 1.0             | 111SOIL SOIL                            |
|                   |                      |                      |                             | 1.0                            | 18.3            | 112SRFD SDGL                            |
|                   |                      |                      |                             | 18.3                           | --              | 112SRFD SDGL Sand, gravel, and clay     |
| HUM 39            | --                   | 280.0                | --                          | 0.0                            | 23.0            | 110SDMN                                 |
|                   |                      |                      |                             | 23.0                           | --              | BEDROCK ROCK                            |
| HUM 40            | --                   | 500.0                | --                          | 0.0                            | 6.0             | 110SDMN                                 |
|                   |                      |                      |                             | 6.0                            | --              | BEDROCK ROCK                            |
| HUM 42            | --                   | 215.0                | --                          | 0.0                            | 200.0           | 110SDMN                                 |
|                   |                      |                      |                             | 200.0                          | --              | BEDROCK ROCK                            |
| HUM 43            | --                   | 565.0                | --                          | 0.0                            | 35.0            | 110SDMN                                 |
|                   |                      |                      |                             | 35.0                           | --              | BEDROCK ROCK                            |
| HUM 44            | --                   | 505.0                | --                          | 0.0                            | 35.0            | 110SDMN                                 |
|                   |                      |                      |                             | 35.0                           | --              | BEDROCK ROCK                            |
| HUM 47            | 40.0                 | --                   | --                          | 0.0                            | 15.2            | 112SRFD SAND                            |
|                   |                      |                      |                             | 15.2                           | 34.0            | 112SRFD SDST                            |
|                   |                      |                      |                             | 34.0                           | --              | 112SRFD SAND                            |
|                   |                      |                      |                             |                                |                 | Medium to coarse, some gravel           |
|                   |                      |                      |                             |                                |                 | Fine, trace clay                        |
|                   |                      |                      |                             |                                |                 | Medium to fine, some silt, trace clay   |
| HUM 48            | 26.0                 | --                   | --                          | 0.0                            | 10.0            | 112SRFD SAND                            |
|                   |                      |                      |                             | 10.0                           | 14.0            | 112SRFD SDST                            |
|                   |                      |                      |                             | 14.0                           | 19.0            | 112SRFD SAND                            |
|                   |                      |                      |                             | 19.0                           | --              | 112SRFD SDST                            |
|                   |                      |                      |                             |                                |                 | Medium to coarse, trace silt            |
|                   |                      |                      |                             |                                |                 | Fine, trace clay                        |
|                   |                      |                      |                             |                                |                 | Medium, trace clay                      |
|                   |                      |                      |                             |                                |                 | Medium to fine                          |
| HUM 50            | 60.0                 | --                   | --                          | 0.0                            | 5.0             | 112SRFD SDGL                            |
|                   |                      |                      |                             | 5.0                            | --              | BEDROCK ROCK                            |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------|-------------------------|
| HUM 51            | 25.0                 | --                   | --                          | 0.0                            | 3.0             | 112SRFD SAND            |
|                   |                      |                      |                             | 3.0                            | 7.0             | 112SRFD SAND            |
|                   |                      |                      |                             | 7.0                            | --              | BEDROCK ROCK            |
| HUM 52            | --                   | 340.0                | --                          | 0.0                            | 112.0           | 112TILL TILL            |
|                   |                      |                      |                             | 112.0                          | --              | BEDROCK ROCK            |
| HUM 53            | --                   | 500.0                | --                          | 0.0                            | 52.0            | 112TILL TILL            |
|                   |                      |                      |                             | 52.0                           | --              | BEDROCK ROCK            |
| HUM 54            | --                   | 120.0                | --                          | 0.0                            | 51.0            | 110SDMN SGVC            |
|                   |                      |                      |                             | 51.0                           | --              | BEDROCK ROCK            |
| HUM 55            | --                   | 120.0                | --                          | 0.0                            | 56.0            | 110SDMN SGVC            |
|                   |                      |                      |                             | 56.0                           | --              | BEDROCK ROCK            |
| HUM 56            | --                   | 180.0                | --                          | 0.0                            | 47.0            | 110SDMN SGVC            |
|                   |                      |                      |                             | 47.0                           | --              | BEDROCK ROCK            |
| HUM 57            | --                   | 155.0                | --                          | 68.0                           | --              | BEDROCK ROCK            |
| HUM 62            | --                   | 515.0                | --                          | 0.0                            | 3.0             | 112TILL TILL            |
|                   |                      |                      |                             | 3.0                            | --              | BEDROCK ROCK            |
| HUM 63            | --                   | 375.0                | --                          | 22.0                           | --              | BEDROCK ROCK            |
| HUM 66            | --                   | 260.0                | --                          | 0.0                            | 9.0             | 110SDMN SAND            |
|                   |                      |                      |                             | 9.0                            | --              | BEDROCK ROCK            |
| HUM 67            | --                   | 420.0                | --                          | 0.0                            | --              | 112TILL TILL            |
|                   |                      |                      |                             | --                             | --              | 110SDMN CLAY            |
|                   |                      |                      |                             | 114.0                          | --              | BEDROCK ROCK            |
| HUM 68            | --                   | 420.0                | --                          | 0.0                            | --              | 112TILL TILL            |
|                   |                      |                      |                             | --                             | --              | 110SDMN CLAY            |
|                   |                      |                      |                             | 44.0                           | --              | BEDROCK ROCK            |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| HUM 69            | --                   | 220.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      |                             | --                             | 110SDMN          | CLAY                    |
|                   |                      |                      | 38.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 70            | --                   | 445.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | --                          | --                             | 112TILL          | TILL                    |
|                   |                      |                      | 40.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 72            | --                   | 825.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | 42.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 73            | --                   | 375.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | --                          | --                             | 112TILL          | TILL                    |
|                   |                      |                      | 46.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 74            | --                   | 255.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | 29.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 75            | --                   | 695.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | 36.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 76            | --                   | 535.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 11.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 77            | --                   | 155.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 20.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 80            | --                   | 420.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | --                          | --                             | 110SDMN          | CLAY                    |
|                   |                      |                      | 138.0                       | --                             | BEDROCK          | ROCK                    |
| HUM 81            | --                   | 400.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | --                          | --                             | 110SDMN          | CLAY                    |
|                   |                      |                      | 110.0                       | --                             | BEDROCK          | ROCK                    |
| HUM 82            | --                   | 380.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 3.0                         | --                             | BEDROCK          | ROCK                    |

Merrimack County

Hopkinton--Continued

B-120

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| HUM 84            | --                   | 310.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 118.0                       | --                             | BEDROCK          | ROCK                    |
| HUM 85            | --                   | 145.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | 92.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 86            | --                   | 275.0                | --                          | 0.0                            | 110SDMN          | SAND                    |
|                   |                      |                      | 17.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 87            | --                   | 200.0                | --                          | 0.0                            | 110SDMN          | SAND                    |
|                   |                      |                      | 100.0                       | --                             | BEDROCK          | ROCK                    |
| HUM 88            | --                   | 135.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | 4.0                         | --                             | BEDROCK          | ROCK                    |
| HUM 89            | --                   | 160.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 5.0                         | --                             | BEDROCK          | ROCK                    |
| HUM 90            | --                   | 345.0                | --                          | 0.0                            | 110SDMN          | SAND                    |
|                   |                      |                      | 15.0                        | 63.0                           | 110SDMN          | SDGL                    |
|                   |                      |                      | 63.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 91            | --                   | 378.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 25.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 94            | --                   | 155.0                | --                          | 0.0                            | 110SDMN          | SAND                    |
|                   |                      |                      | 4.0                         | --                             | BEDROCK          | ROCK                    |
| HUM 95            | --                   | 455.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | 63.0                        | --                             | BEDROCK          | ROCK                    |
| HUM 96            | --                   | 485.0                | --                          | 0.0                            | 110SDMN          | SDGL                    |
|                   |                      |                      | 3.0                         | --                             | BEDROCK          | ROCK                    |
| HUM 98            | --                   | 420.0                | --                          | 0.0                            | 112TILL          | TILL                    |
|                   |                      |                      | --                          | 40.0                           | 110SDMN          | CLAY                    |
|                   |                      |                      | 40.0                        | --                             | BEDROCK          | ROCK                    |

Merrimack County

Hopkinton--Continued

B-121

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code                      | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|---------------------------------------|-------------------------|
|                   |                      |                      |                             |                                |                                       |                         |
| HUM 99            | --                   | 420.0                | --                          | 0.0<br>6.0                     | 6.0<br>112TILL<br>BEDROCK             | TILL<br>ROCK            |
| HUM 100           | --                   | 600.0                | --                          | 0.0<br>4.0                     | 4.0<br>110SDMN<br>BEDROCK             | SDGL<br>ROCK            |
| HUM 101           | --                   | 360.0                | --                          | 0.0<br>4.0                     | 4.0<br>110SDMN<br>BEDROCK             | SDGL<br>ROCK            |
| HUM 102           | --                   | 380.0                | --                          | 0.0<br>39.0<br>64.0            | 39.0<br>112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK    |
| HUM 104           | --                   | 412.0                | --                          | 0.0<br>35.0                    | 35.0<br>112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HUM 105           | --                   | 365.0                | --                          | 0.0<br>--<br>165.0             | --<br>112TILL<br>112TILL<br>BEDROCK   | TILL<br>TILL<br>ROCK    |
| HUM 106           | --                   | 325.0                | --                          | 0.0<br>96.0                    | 96.0<br>110SDMN<br>BEDROCK            | SAND<br>ROCK            |
| HUM 107           | --                   | 502.0                | --                          | 0.0<br>60.0                    | 60.0<br>110SDMN<br>BEDROCK            | SAND<br>ROCK            |
| HUM 108           | --                   | 250.0                | --                          | 0.0<br>40.0                    | 40.0<br>112TILL<br>BEDROCK            | TILL<br>ROCK            |
| HUM 109           | --                   | 149.0                | --                          | 0.0<br>7.0                     | 7.0<br>110SDMN<br>BEDROCK             | SDGL<br>ROCK            |
| HUM 110           | --                   | 125.0                | --                          | 0.0<br>7.0                     | 7.0<br>110SDMN<br>BEDROCK             | SDGL<br>ROCK            |
| HUM 111           | --                   | 150.0                | --                          | 0.0<br>8.0                     | 8.0<br>110SDMN<br>BEDROCK             | CLAY<br>ROCK            |

Merrimack County

Hopkinton--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code                              | Description of material      |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|---|------------------------------|
|                   |                      |                      |                             |                                |   |                              |
| HUM 112           | --                   | 875.0                | --                          | 0.0<br>67.0                    | 67.0<br>110SDMN<br>BEDROCK                    | SDGL<br>ROCK                 |
| HUM 113           | --                   | 500.0                | --                          | 0.0<br>95.0                    | 95.0<br>112TILL<br>BEDROCK                    | TILL<br>ROCK                 |
| HUM 114           | --                   | 260.0                | --                          | 6.0                            | --  | BEDROCK<br>ROCK              |
| HUM 115           | --                   | 310.0                | --                          | 0.0<br>5.0                     | 5.0<br>110SDMN<br>BEDROCK                     | SAND<br>ROCK                 |
| HUM 116           | --                   | 345.0                | --                          | 0.0<br>58.0                    | 58.0<br>110SDMN<br>BEDROCK                    | SAND<br>ROCK                 |
| HUM 118           | --                   | 261.0                | --                          | 0.0<br>67.0                    | 67.0<br>110SDMN<br>SAND                       | SAND                         |
| HUM 119           | --                   | 265.0                | --                          | 56.0                           | --  | BEDROCK<br>ROCK              |
| HUM 121           | --                   | 500.0                | --                          | 0.0<br>25.0                    | 25.0<br>112TILL<br>BEDROCK                    | TILL<br>ROCK                 |
| HUM 122           | --                   | 250.0                | --                          | 0.0<br>58.0                    | 58.0<br>110SDMN<br>BEDROCK                    | SDGL<br>ROCK                 |
| HUM 123           | --                   | 400.0                | --                          | 0.0<br>25.0<br>80.0<br>89.0    | 25.0<br>110SDMN<br>112TILL<br>CLAY<br>BEDROCK | SAND<br>TILL<br>CLAY<br>ROCK |
| HUM 125           | --                   | 161.0                | --                          | 0.0<br>75.0                    | 75.0<br>112TILL<br>BEDROCK                    | TILL<br>ROCK                 |
| HUM 126           | --                   | 370.0                | --                          | 0.0<br>60.0                    | 60.0<br>110SDMN<br>BEDROCK                    | SAND<br>ROCK                 |

Merrimack County

Hopkinton--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                         |                             |                        |              |                 |                         |

Merrimack County

| Hopkinton--Continued |    |        |    |       |       |         |      |                 |
|----------------------|----|--------|----|-------|-------|---------|------|-----------------|
| HUM 127              | -- | 184.0  | -- | 0.0   | --    | 112TILL | TILL |                 |
|                      |    |        |    | --    | --    | 112TILL | TILL | Gravel, hardpan |
|                      |    |        |    | 65.0  | --    | BEDROCK | ROCK |                 |
| HUM 128              | -- | 425.0  | -- | 0.0   | 9.0   | 110SDMN | SDGL |                 |
|                      |    |        |    | 9.0   | --    | BEDROCK | ROCK |                 |
| HUM 129              | -- | 175.0  | -- | 0.0   | 48.0  | 110SDMN | SDGL |                 |
|                      |    |        |    | 48.0  | --    | BEDROCK | ROCK |                 |
| HUM 130              | -- | 250.0  | -- | 0.0   | 157.0 | 112TILL | TILL |                 |
|                      |    |        |    | 157.0 | --    | BEDROCK | ROCK |                 |
| HUM 133              | -- | 903.0  | -- | 0.0   | --    | 110SDMN | SDGL |                 |
|                      |    |        |    | --    | --    | 112TILL | TILL |                 |
|                      |    |        |    | 70.0  | --    | BEDROCK | ROCK |                 |
| HUM 134              | -- | 1200.0 | -- | 45.0  | --    | BEDROCK | ROCK |                 |
| HUM 135              | -- | 565.0  | -- | 39.0  | --    | BEDROCK | ROCK |                 |
| HUM 136              | -- | 365.0  | -- | 0.0   | 96.0  | 110SDMN | SAND |                 |
|                      |    |        |    | 96.0  | --    | BEDROCK | ROCK |                 |
| HUM 139              | -- | 323.0  | -- | 0.0   | --    | 110SDMN | SAND |                 |
|                      |    |        |    | --    | --    | 112TILL | TILL | Sand, hardpan   |
|                      |    |        |    | 100.0 | --    | BEDROCK | ROCK |                 |
| HUM 140              | -- | 235.0  | -- | 35.0  | --    | BEDROCK | ROCK |                 |
| HUM 141              | -- | 562.0  | -- | 0.0   | --    | 110SDMN | SDGL |                 |
|                      |    |        |    | --    | --    | 112TILL | TILL | Clay, hardpan   |
|                      |    |        |    | --    | --    | 112TILL | TILL |                 |
|                      |    |        |    | 176.0 | --    | BEDROCK | ROCK |                 |
| HUM 142              | -- | 735.0  | -- | 0.0   | 100.0 | 112TILL | TILL |                 |
|                      |    |        |    | 100.0 | --    | BEDROCK | ROCK |                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                         |                             |                                |              |                 |                         |

Merrimack County

| Hopkinton--Continued |    |       |    |       |      |         |      |               |
|----------------------|----|-------|----|-------|------|---------|------|---------------|
| HUM 143              | -- | 360.0 | -- | 0.0   | 90.0 | 110SDMN | CLAY |               |
|                      |    |       |    | 90.0  | --   | BEDROCK | ROCK |               |
| HUM 144              | -- | 525.0 | -- | 0.0   | 7.0  | 110SDMN | SDGL |               |
|                      |    |       |    | 7.0   | --   | BEDROCK | ROCK |               |
| HUM 145              | -- | 205.0 | -- | 0.0   | 35.0 | 112TILL | TILL |               |
|                      |    |       |    | 35.0  | --   | BEDROCK | ROCK |               |
| HUM 146              | -- | 500.0 | -- | 0.0   | 56.0 | 112TILL | TILL |               |
|                      |    |       |    | 56.0  | --   | BEDROCK | ROCK |               |
| HUM 147              | -- | 743.0 | -- | 0.0   | 85.0 | 110SDMN | SAND |               |
|                      |    |       |    | 85.0  | --   | BEDROCK | ROCK |               |
| HUM 148              | -- | 363.0 | -- | 0.0   | 33.0 | 110SDMN | SAND |               |
|                      |    |       |    | 33.0  | 99.0 | 112TILL | TILL | Clay, hardpan |
|                      |    |       |    | 99.0  | --   | BEDROCK | ROCK |               |
| HUM 152              | -- | 503.0 | -- | 0.0   | --   | 110SDMN | SDGL |               |
|                      |    |       |    | --    | --   | 112TILL | TILL | Sand, hardpan |
|                      |    |       |    | 67.0  | --   | BEDROCK | ROCK |               |
| HUM 153              | -- | 220.0 | -- | 0.0   | 50.0 | 110SDMN | SAND |               |
|                      |    |       |    | 50.0  | --   | BEDROCK | ROCK |               |
| HUM 154              | -- | 500.0 | -- | 0.0   | 3.0  | 110SDMN | SAND |               |
|                      |    |       |    | 3.0   | --   | BEDROCK | ROCK |               |
| HUM 156              | -- | 200.0 | -- | 0.0   | --   | 112TILL | TILL |               |
|                      |    |       |    | --    | --   | 110SDMN | SDGL |               |
|                      |    |       |    | 140.0 | --   | BEDROCK | ROCK |               |
| HUM 157              | -- | 200.0 | -- | 0.0   | 1.0  | 112TILL | TILL |               |
|                      |    |       |    | 1.0   | --   | BEDROCK | ROCK |               |
| HUM 158              | -- | 382.0 | -- | 0.0   | 5.0  | 110SDMN | SAND |               |
|                      |    |       |    | 5.0   | --   | BEDROCK | ROCK |               |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material         |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------|---------------------------------|
| Merrimack County     |                      |                      |                             |                                |                 |                                 |
| Hopkinton--Continued |                      |                      |                             |                                |                 |                                 |
| HUW 159              | 111.0                | 21.0                 | 111.0                       | 0.0                            | 112SRFD SAND    | Medium to coarse                |
|                      |                      |                      | 22.0                        | 22.0                           | 112SRFD STCL    | Silt, clay, and trace fine sand |
|                      |                      |                      | 63.0                        | 63.0                           | 112SRFD CLAY    | Some silt                       |
|                      |                      |                      | 105.0                       | 110.8                          | 112TILL TILL    |                                 |
|                      |                      |                      | 110.8                       | --                             | BEDROCK ROCK    | Bedrock                         |
| HUW 160              | --                   | 372.0                | --                          | 84.0                           | --              | BEDROCK ROCK                    |
| HUW 162              | --                   | 432.0                | --                          | 0.0                            | 110SDMH SDGL    |                                 |
|                      |                      |                      | 40.0                        | --                             | BEDROCK ROCK    |                                 |
| HUW 163              | --                   | 403.0                | --                          | 0.0                            | 110SDMH SDGL    |                                 |
|                      |                      |                      | 10.0                        | 38.0                           | 110SDMH SAND    |                                 |
|                      |                      |                      | 38.0                        | --                             | BEDROCK ROCK    |                                 |
| HUW 164              | --                   | 178.0                | --                          | 0.0                            | 110SDMH SDGL    |                                 |
|                      |                      |                      | 3.0                         | --                             | BEDROCK ROCK    |                                 |
| HUW 165              | --                   | 704.0                | --                          | 0.0                            | 110SDMH SDGL    |                                 |
|                      |                      |                      | 9.0                         | --                             | BEDROCK ROCK    |                                 |
| HUW 166              | --                   | 493.0                | --                          | 0.0                            | 110SDMH SDGL    |                                 |
|                      |                      |                      | 12.0                        | --                             | BEDROCK ROCK    |                                 |
| HUW 167              | --                   | 590.0                | --                          | 9.0                            | --              | BEDROCK ROCK                    |
| HUW 168              | --                   | 180.0                | --                          | 55.0                           | --              | BEDROCK ROCK                    |
| HUW 169              | --                   | 182.0                | --                          | 0.0                            | 112TILL TILL    |                                 |
|                      |                      |                      | 90.0                        | --                             | BEDROCK ROCK    |                                 |
| HUW 170              | --                   | 227.0                | --                          | 0.0                            | 110SDMH SGVC    |                                 |
|                      |                      |                      | 93.0                        | --                             | BEDROCK ROCK    |                                 |
| HUW 172              | --                   | 260.0                | --                          | 0.0                            | 110SDMH SAND    |                                 |
|                      |                      |                      | 70.0                        | --                             | BEDROCK ROCK    |                                 |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|----------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------|-------------------------|
| Merrimack County     |                      |                      |                             |                                |                 |                         |
| Hopkinton--Continued |                      |                      |                             |                                |                 |                         |
| HUW 173              | --                   | 200.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 50.0                        | 100.0                          | 110SDMH CLAY    |                         |
|                      |                      |                      | 100.0                       | 150.0                          | 112TILL TILL    |                         |
|                      |                      |                      | 150.0                       | --                             | BEDROCK ROCK    |                         |
| HUW 174              | --                   | 420.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 130.0                       | --                             | BEDROCK ROCK    |                         |
| HUW 175              | --                   | 295.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 99.0                        | --                             | BEDROCK ROCK    |                         |
| HUW 176              | --                   | 430.0                | --                          | 0.0                            | 110SDMH SAND    |                         |
|                      |                      |                      | 50.0                        | 130.0                          | 112TILL TILL    |                         |
|                      |                      |                      | 130.0                       | --                             | BEDROCK ROCK    |                         |
| HUW 177              | --                   | 200.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 10.0                        | --                             | BEDROCK ROCK    |                         |
| HUW 181              | --                   | 400.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 30.0                        | --                             | BEDROCK ROCK    |                         |
| HUW 182              | --                   | 200.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 104.0                       | --                             | BEDROCK ROCK    |                         |
| HUW 183              | --                   | 420.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 46.0                        | --                             | BEDROCK ROCK    |                         |
| HUW 184              | --                   | 242.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 102.0                       | --                             | BEDROCK ROCK    |                         |
| HUW 185              | --                   | 145.0                | --                          | 0.0                            | 112TILL TILL    |                         |
|                      |                      |                      | 7.0                         | --                             | BEDROCK ROCK    |                         |
| HUW 186              | --                   | 292.0                | --                          | 29.0                           | --              | BEDROCK ROCK            |
| HUW 187              | --                   | 175.0                | --                          | 5.0                            | --              | BEDROCK ROCK            |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Lithologic code                               | Description of material |
|----------------------|----------------------|----------------------|-------------------------|--------------------------------|---|-------------------------|
| Merrimack County     |                      |                      |                         |                                |   |                         |
| Hopkinton--Continued |                      |                      |                         |                                |   |                         |
| HUM 188              | --                   | 492.0                | --                      | 0.0                            | 1105JHM<br>SUGL<br>BEDROCK                    | SUGL<br>ROCK            |
| HUM 189              | --                   | 415.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>BEDROCK                    | SAND<br>ROCK            |
| HUM 190              | --                   | 575.0                | --                      | 202.0                          | --  | BEADROCK                |
| HUM 191              | --                   | 355.0                | --                      | 114.0                          | --  | BEADROCK                |
| HUM 192              | --                   | 505.0                | --                      | 0.0                            | 1127TLL<br>TILL<br>BEDROCK                    | TILL<br>ROCK            |
| HUM 193              | --                   | 392.0                | --                      | 79.0                           | --  | BEADROCK                |
| HUM 194              | --                   | 405.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>1105JHM<br>CLAY<br>BEDROCK | SAND<br>CLAY<br>ROCK    |
| HUM 195              | --                   | 305.0                | --                      | 0.0                            | 1105JHM<br>SUGL<br>1127TLL<br>TILL<br>BEDROCK | SUGL<br>TILL<br>ROCK    |
| HUM 196              | --                   | 365.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>1105JHM<br>SGVC<br>BEDROCK | SAND<br>SGVC<br>ROCK    |
| HUM 197              | --                   | 305.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>BEDROCK                    | SAND<br>ROCK            |
| HUM 198              | --                   | 165.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>BEDROCK                    | SAND<br>ROCK            |
| HUM 199              | --                   | 245.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>BEDROCK                    | SAND<br>ROCK            |
| HUM 200              | --                   | 465.0                | --                      | 0.0                            | 1127TLL<br>TILL<br>BEDROCK                    | TILL<br>ROCK            |

B-128

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Lithologic code   | Description of material   |
|----------------------|----------------------|----------------------|-------------------------|--------------------------------|---|---|
| Merrimack County     |                      |                      |                         |                                |   |   |
| Hopkinton--Continued |                      |                      |                         |                                |   |   |
| HUM 201              | --                   | 220.0                | --                      | 0.0                            | 1127TLL<br>TILL<br>BEDROCK  | TILL<br>ROCK  |
| HUM 202              | --                   | 295.0                | --                      | 0.0                            | 1127TLL<br>TILL<br>BEDROCK  | TILL<br>ROCK  |
| HUM 203              | --                   | 260.0                | --                      | 0.0                            | 1127TLL<br>TILL<br>1127TLL<br>TILL<br>BEDROCK   | TILL<br>Gravel, marlpan<br>TILL<br>ROCK   |
| HUM 204              | --                   | 700.0                | --                      | 0.0                            | 1127TLL<br>TILL<br>BEDROCK  | TILL<br>ROCK  |
| HUM 206              | --                   | 420.0                | --                      | 0.0                            | 1105JHM<br>SAND<br>1127TLL<br>TILL<br>BEDROCK   | SAND<br>TILL<br>ROCK  |
| HUM 212              | 91.0                 | 39.0                 | 91.0                    | 0.0                            | 112SKFD<br>SUST<br>112SKFD<br>CLAY<br>1127TLL<br>TILL<br>BEDROCK  | F-VF sand, silt, some M sand, trace clay<br>CLAY<br>TILL<br>GSSS                      |
| HUM 213              | 16.4                 | --                   | 16.4                    | 0.0                            | 112SKFD<br>SUGL<br>112SKFD<br>SUGL  | Fine to medium, some silt towards bottom<br>SUGL                                      |
| HUM 214              | 90.0                 | 80.0                 | 90.0                    | 0.0                            | 112SKFD<br>SAND<br>112SKFD<br>SAND<br>112SKFD<br>SUGL<br>112SKFD<br>SAND<br>112SKFD<br>SAND<br>112SKFD<br>SUGL<br>1127TLL<br>TILL | Fine<br>Silty<br>Silty<br>Fine<br>Medium<br>Medium, trace clay<br>Silty sand and clay |
| HUM 215              | 135.0                | 74.0                 | 133.0                   | 0.0                            | 112SKFD<br>SUGL<br>1127TLL<br>TILL<br>112SKFD<br>SUGL<br>112SKFD<br>SUGL  | Sand, gravel, and boulders<br>TILL<br>Marlpan in log<br>Silty, gray<br>SUGL<br>SUGL   |

B-129

Appendix B.---Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material               |
|----------------------|----------------------|----------------------|-------------------------|--------------------------------|------------------|---------------------------------------|
| Hopkinton--Continued |                      |                      |                         |                                |                  |                                       |
| HUW 215--Continued   |                      |                      |                         |                                |                  |                                       |
|                      | 56.0                 | 74.0                 | 100.0                   | 132.0                          | 112SRFD SAND     | Gray, some gravel and clay            |
|                      | 74.0                 | 100.0                | 112SRFD CLAY            |                                |                  | Gray                                  |
|                      | 100.0                | 132.0                | 112SRFD CLAY            |                                |                  | Silty, gray                           |
|                      | 132.0                | --                   | 112SRFD SAND            |                                |                  | Angular, gray                         |
| HUW 216              | 121.0                | 18.0                 | 121.0                   | 0.0                            | 112SRFD SDGL     | Fine                                  |
|                      | 28.0                 | 35.0                 | 112SRFD SAND            |                                |                  | Very fine                             |
|                      | 35.0                 | 60.0                 | 112SRFD SAND            |                                |                  | Silty, brown                          |
|                      | 60.0                 | 80.0                 | 112SRFD SAND            |                                |                  | Silty, gray                           |
|                      | 80.0                 | 100.0                | 112SRFD SDCL            |                                |                  | Silty, gray                           |
|                      | 100.0                | 120.5                | 112SRFD CLAY            |                                |                  | Gray                                  |
|                      | 120.5                | --                   | 112SRFD SDCL            |                                |                  | Angular, gray                         |
| HUW 217              | 25.9                 | 25.0                 | 25.9                    | 0.0                            | 112SRFD SAND     | Fine to coarse, trace gravel and silt |
|                      | 13.0                 | --                   | 112SRFD SAND            |                                |                  | Fine to coarse, some silt             |
| HUW 218              | 17.0                 | 14.0                 | 17.0                    | 0.0                            | 112SRFD SDGL     | Fine to medium                        |
| HUW 226              | --                   | 600.0                | --                      | 0.0                            | 110SDMN SAND     |                                       |
|                      |                      |                      |                         | 30.0                           | BEDROCK          | ROCK                                  |
| HUW 227              | --                   | 300.0                | --                      | 0.0                            | 110SDMN SAND     |                                       |
|                      |                      |                      |                         | --                             | 112TILL          | TILL                                  |
|                      |                      |                      |                         | 73.0                           | BEDROCK          | ROCK                                  |
| HUW 228              | --                   | 800.0                | --                      | 0.0                            | 110SDMN SAND     |                                       |
|                      |                      |                      |                         | 120.0                          | BEDROCK          | ROCK                                  |
| HUW 229              | --                   | 280.0                | --                      | 0.0                            | 110SDMN SDGL     |                                       |
|                      |                      |                      |                         | 32.0                           | BEDROCK          | ROCK                                  |
|                      |                      |                      |                         |                                | Newbury          |                                       |
| NDB 1                | 24.0                 | --                   | --                      | 0.0                            | 110SDMN MUCK     |                                       |
|                      |                      |                      |                         | 3.0                            | 110SDMN SAND     | Silty, gravelly                       |
|                      |                      |                      |                         | 8.0                            | 1120TSH GRVL     |                                       |
|                      |                      |                      |                         | 8.0                            | --               |                                       |

Appendix B.---Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|--------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|------------------|-------------------------|
| Merrimack County   |                      |                      |                         |                                |              |                  |                         |
| Newbury--Continued |                      |                      |                         |                                |              |                  |                         |
| NDB 2              | 23.0                 | --                   | --                      | 0.0                            | 110SOIL      | SOIL             |                         |
|                    |                      |                      |                         | 1.0                            | 112SRFD GRVL |                  | Little silty            |
|                    |                      |                      |                         | 15.0                           | 112SRFD SAND |                  | Fine                    |
|                    |                      |                      |                         | 20.0                           | --           | 112TILL          | TILL                    |
|                    |                      |                      |                         | --                             |              |                  | Sandy                   |
| NDB 3              | 5.0                  | --                   | 5.0                     | 0.0                            | 110SDMN SDGL |                  | Boulders                |
| NDB 4              | 19.0                 | --                   | 19.0                    | 0.0                            | 110SDMN SAND |                  | Silty                   |
|                    |                      |                      |                         | 3.2                            | 110SDMN SDGL |                  | Boulders                |
|                    |                      |                      |                         | 5.5                            | --           | 112SRFD SDGL     | Some coarse             |
| NDB 5              | 5.0                  | --                   | 5.0                     | 0.0                            | 110ALVM      | BLDR             |                         |
| NDB 1              | --                   | 142.0                | --                      | 65.0                           | BEDROCK      | ROCK             | --                      |
| NDB 2              | --                   | 110.0                | --                      | 25.0                           | BEDROCK      | ROCK             | --                      |
| NDB 3              | --                   | 192.0                | --                      | 100.0                          | BEDROCK      | ROCK             | --                      |
| NDB 5              | --                   | 120.0                | --                      | 9.0                            | BEDROCK      | ROCK             | --                      |
| NDB 11             | --                   | 207.0                | --                      | 0.0                            | 112TILL      | TILL             |                         |
|                    |                      |                      |                         | 65.0                           | BEDROCK      | ROCK             |                         |
| NDB 19             | --                   | 200.0                | --                      | 0.0                            | 112TILL      | TILL             |                         |
|                    |                      |                      |                         | 40.0                           | BEDROCK      | ROCK             |                         |
| NDB 20             | --                   | 148.0                | --                      | 0.0                            | 110SDMN SAND |                  |                         |
|                    |                      |                      |                         | 50.0                           | 110SDMN CLAY |                  |                         |
|                    |                      |                      |                         | 70.0                           | BEDROCK      | ROCK             |                         |
| NDB 21             | --                   | 138.0                | --                      | 0.0                            | 110SDMN SAND |                  |                         |
|                    |                      |                      |                         | 10.0                           | 112TILL      | TILL             | Clay, hardpan           |
|                    |                      |                      |                         | 50.0                           | BEDROCK      | ROCK             |                         |
| NDB 23             | --                   | 77.0                 | --                      | 0.0                            | 110SDMN SDGL |                  |                         |
|                    |                      |                      |                         | 10.0                           | BEDROCK      | ROCK             |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number  | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|--------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                    |                      |                      |                             |                                |              |                 |                         |
| Merrimack County   |                      |                      |                             |                                |              |                 |                         |
| Newbury--Continued |                      |                      |                             |                                |              |                 |                         |
| NDW 29             | --                   | 305.0                | --                          | 0.0                            | 110SDMN      | SAND            |                         |
|                    |                      |                      |                             | 100.0                          | BEADROCK     | ROCK            |                         |
| NDW 30             | --                   | 325.0                | --                          | 54.0                           | BEADROCK     | ROCK            |                         |
| NDW 44             | --                   | 405.0                | --                          | 0.0                            | 110SDMN      | SDGL            |                         |
|                    |                      |                      |                             | 82.0                           | BEADROCK     | ROCK            |                         |
| NDW 47             | --                   | 415.0                | --                          | 0.0                            | 110SDMN      | SDGL            |                         |
|                    |                      |                      |                             | 59.0                           | BEADROCK     | ROCK            |                         |
| NDW 51             | --                   | 185.0                | --                          | 0.0                            | 112TILL      | TILL            |                         |
|                    |                      |                      |                             | 26.0                           | BEADROCK     | ROCK            |                         |
| NDW 55             | --                   | 305.0                | --                          | 0.0                            | 112TILL      | TILL            |                         |
|                    |                      |                      |                             | 9.0                            | BEADROCK     | ROCK            |                         |
| NDW 57             | --                   | 205.0                | --                          | 0.0                            | 110SDMN      | SDGL            |                         |
|                    |                      |                      |                             | 3.0                            | BEADROCK     | ROCK            |                         |
| NDW 78             | 32.0                 | 24.0                 | 32.0                        | 0.0                            | 112SRFD      | SAND            | Coarse                  |
|                    |                      |                      |                             | 17.0                           | 1120TSH      | GRVL            | Gravel and cobbles      |
|                    |                      |                      |                             | 25.0                           | 112TILL      | TILL            | Gravelly, sandy         |
| NDW 88             | --                   | 525.0                | --                          | 0.0                            | 110SDMN      | SDGL            |                         |
|                    |                      |                      |                             | 18.0                           | BEADROCK     | ROCK            |                         |
| New London         |                      |                      |                             |                                |              |                 |                         |
| MLA 10             | --                   | 28.0                 | --                          | 9.0                            | BEADROCK     | ROCK            | --                      |
| MLB 1              | 18.0                 | --                   | --                          | 0.0                            | 112TILL      | TILL            | Gravelly                |
|                    |                      |                      |                             | 4.0                            | BEADROCK     | ROCK            |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-----------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                       |                      |                      |                             |                                |              |                 |                         |
| Merrimack County      |                      |                      |                             |                                |              |                 |                         |
| New London--Continued |                      |                      |                             |                                |              |                 |                         |
| NLB 2                 | 15.0                 | --                   | 15.0                        | 0.0                            | 110SDMN      | MUCK            |                         |
|                       |                      |                      |                             | 2.0                            | 110SDMN      | SAND            | Silt                    |
|                       |                      |                      |                             | 8.0                            | 112TILL      | TILL            | Sandy                   |
| NLB 3                 | 17.0                 | --                   | --                          | 0.0                            | 110SOIL      | SOIL            |                         |
|                       |                      |                      |                             | 1.0                            | 112TILL      | TILL            | Sandy                   |
|                       |                      |                      |                             | 6.0                            | BEADROCK     | ROCK            |                         |
| NLB 4                 | 4.0                  | --                   | 4.0                         | 0.0                            | 112TILL      | TILL            | Sandy                   |
| NLB 5                 | 24.0                 | --                   | 24.0                        | 0.0                            | 110SOIL      | SOIL            |                         |
|                       |                      |                      |                             | 1.0                            | 112TILL      | TILL            | Sandy                   |
| NLB 6                 | 35.0                 | --                   | --                          | 0.0                            | 112TILL      | TILL            |                         |
| NLB 7                 | 22.0                 | --                   | 22.0                        | 0.0                            | 112TILL      | GRCL            |                         |
| NLB 9                 | 31.0                 | --                   | 31.0                        | 0.0                            | 112SRFD      | SDCL            | Fine                    |
| NLB 10                | 28.0                 | --                   | 28.0                        | 0.0                            | 112SRFD      | SDGL            | Coarse                  |
|                       |                      |                      |                             | 21.0                           | 112SRFD      | SDGL            | Fine-coarse, trace clay |
| NLB 11                | 15.0                 | --                   | 15.0                        | 0.0                            | 112TILL      | TILL            |                         |
| NLB 12                | 16.0                 | --                   | 16.0                        | 0.0                            | 112TILL      | TILL            |                         |
| NLW 2                 | --                   | 85.0                 | --                          | 2.0                            | BEADROCK     | ROCK            | --                      |
| NLW 3                 | --                   | 120.0                | --                          | 20.0                           | BEADROCK     | ROCK            | --                      |
| NLW 4                 | --                   | 70.0                 | --                          | 12.0                           | BEADROCK     | ROCK            | --                      |
| NLW 5                 | --                   | 95.0                 | --                          | 23.0                           | BEADROCK     | ROCK            | --                      |
| NLW 6                 | --                   | 135.0                | --                          | 25.0                           | BEADROCK     | ROCK            | --                      |
| NLW 7                 | --                   | 102.0                | --                          | 92.0                           | BEADROCK     | ROCK            | --                      |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material                    |
|-------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|-----------------|--|
|                   |                      |                      |                         |                                |              |                 |  |
| NIW 8             | --                   | 165.0                | --                      | 23.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 11            | --                   | 75.0                 | --                      | 8.0                            | --           | BEAROCK         | ROCK --                                    |
| NIW 12            | --                   | 115.0                | --                      | 10.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 13            | --                   | 143.0                | --                      | 5.0                            | --           | BEAROCK         | ROCK --                                    |
| NIW 14            | --                   | 190.0                | --                      | 91.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 15            | --                   | 150.0                | --                      | 55.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 16            | --                   | 100.0                | --                      | 5.0                            | --           | BEAROCK         | ROCK --                                    |
| NIW 17            | --                   | 150.0                | --                      | 58.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 18            | --                   | 140.0                | --                      | 37.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 19            | --                   | 145.0                | --                      | 42.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 21            | --                   | 150.0                | --                      | 46.0                           | --           | BEAROCK         | ROCK --                                    |
| NIW 22            | 38.2                 | --                   | --                      | 0.0                            | 9.4          | 112SRFD         | SDGL Fine-medium, silty, trace coarse sand |
|                   |                      |                      |                         | 9.4                            | 17.5         | 112SRFD         | SAND Dense, gravelly, silty, fine-coarse   |
|                   |                      |                      |                         | 17.5                           | 24.5         | 112SRFD         | SAND Fine-coarse, trace silt and gravel    |
|                   |                      |                      |                         | 24.5                           | 33.8         | 112TILL         | SAND Silty, gravelly, fine-coarse          |
|                   |                      |                      |                         | 33.8                           | --           | BEAROCK         | ROCK                                       |
| NIW 23            | 58.7                 | 55.0                 | --                      | 0.0                            | 19.0         | 112SRFD         | SAND Silty, fine-medium                    |
|                   |                      |                      |                         | 19.0                           | 27.5         | 112SRFD         | SAND Fine-medium, trace silt               |
|                   |                      |                      |                         | 27.5                           | 33.5         | 112SRFD         | SAND Fine-coarse, trace silt and gravel    |
|                   |                      |                      |                         | 33.5                           | 40.0         | 112SRFD         | SAND Fine-coarse, gravelly, trace silt     |
|                   |                      |                      |                         | 40.0                           | 41.4         | 112SRFD         | SAND Fine-medium, trace silt               |
|                   |                      |                      |                         | 41.4                           | 55.4         | 112TILL         | SAND Silty, gravelly                       |
|                   |                      |                      |                         | 55.4                           | --           | BEAROCK         | ROCK                                       |
| NIW 24            | 46.5                 | --                   | --                      | 0.0                            | 37.0         | 111FILL         | SAND Silty, fine-medium                    |
|                   |                      |                      |                         | 37.0                           | --           | 112SRFD         | SAND                                       |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Aquifer code | Lithologic code | Description of material                 |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------|-----------------|---|
|                   |                      |                      |                         |                             |              |                 |   |
| NIW 25            | 56.6                 | --                   | --                      | 0.0                         | 6.2          | 111SUMP         | PFAT                                    |
|                   |                      |                      |                         | 6.2                         | 12.0         | 112SRFD         | SAND Fine-coarse, silty                 |
|                   |                      |                      |                         | 12.0                        | 18.3         | 112SRFD         | SAND Fine-coarse, trace silt and gravel |
|                   |                      |                      |                         | 18.3                        | 38.6         | 112TILL         | SAND Gravel, silt, trace cobbles        |
|                   |                      |                      |                         | 38.6                        | --           | BEAROCK         | ROCK                                    |
| NIW 26            | --                   | 460.0                | --                      | 26.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 27            | --                   | 110.0                | --                      | 0.0                         | 12.0         | 110SDM          | SAND                                    |
|                   |                      |                      |                         | 12.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 31            | --                   | 320.0                | --                      | 10.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 32            | --                   | 395.0                | --                      | 8.0                         | --           | BEAROCK         | ROCK                                    |
| NIW 33            | --                   | 220.0                | --                      | 45.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 34            | --                   | 208.5                | --                      | 0.0                         | --           | 112TILL         | TILL                                    |
|                   |                      |                      |                         | --                          | --           | 110SDM          | SDGL                                    |
|                   |                      |                      |                         | 11.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 36            | --                   | 220.0                | --                      | 0.0                         | 12.0         | 110SDM          | SDGL                                    |
|                   |                      |                      |                         | 12.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 37            | --                   | 205.0                | --                      | 0.0                         | 20.0         | 110SDM          | SDGL                                    |
|                   |                      |                      |                         | 20.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 41            | --                   | 332.0                | --                      | 0.0                         | 3.0          | 110SDM          | SDGL                                    |
|                   |                      |                      |                         | 3.0                         | --           | BEAROCK         | ROCK                                    |
| NIW 42            | --                   | 300.0                | --                      | 0.0                         | 19.0         | 110SDM          | SDGL                                    |
|                   |                      |                      |                         | 19.0                        | --           | BEAROCK         | ROCK                                    |
| NIW 43            | --                   | 200.0                | --                      | 0.0                         | 7.0          | 112TILL         | TILL                                    |
|                   |                      |                      |                         | 7.0                         | --           | BEAROCK         | ROCK                                    |
| NIW 45            | --                   | 131.0                | --                      | 0.0                         | 18.0         | 110SDM          | SDGL                                    |
|                   |                      |                      |                         | 18.0                        | --           | BEAROCK         | ROCK                                    |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Lithologic code      | Description of material |
|-----------------------|----------------------|----------------------|-------------------------|--------------------------------|-----------------------|----------------------|-------------------------|
| Merrimack County      |                      |                      |                         |                                |                       |                      |                         |
| New London--Continued |                      |                      |                         |                                |                       |                      |                         |
| NIW 50                | --                   | 605.0                | --                      | 0.0                            | 5.0                   | 110SDMN SAND BEDROCK |                         |
| NIW 51                | --                   | 306.0                | --                      | 0.0                            | 8.0                   | 112TILL TILL BEDROCK |                         |
| NIW 52                | --                   | 260.0                | --                      | 0.0                            | 25.0                  | 112TILL TILL BEDROCK |                         |
| NIW 58                | --                   | 705.0                | --                      | 0.0                            | 10.0                  | 110SDMN SAND BEDROCK |                         |
| NIW 60                | --                   | 605.0                | --                      | 0.0                            | 7.0                   | 110SDMN SDGL BEDROCK |                         |
| NIW 64                | --                   | 600.0                | --                      | 0.0                            | 10.0                  | 112TILL TILL BEDROCK |                         |
| NIW 65                | --                   | 305.0                | --                      | 1.0                            | --                    | BEDROCK              |                         |
| NIW 67                | --                   | 405.0                | --                      | 2.0                            | --                    | BEDROCK              |                         |
| NIW 69                | --                   | 765.0                | --                      | 0.0                            | 9.0                   | 112TILL TILL BEDROCK |                         |
| NIW 71                | --                   | 400.0                | --                      | 0.0                            | 9.0                   | 110SDMN SDGL BEDROCK |                         |
| NIW 73                | --                   | 705.0                | --                      | 0.0                            | 3.0                   | 110SDMN SAND BEDROCK |                         |
| NIW 76                | --                   | 805.0                | --                      | 0.0                            | 3.0                   | 112TILL TILL BEDROCK |                         |
| NIW 79                | --                   | 280.0                | --                      | 0.0                            | 8.0                   | 110SDMN SAND BEDROCK |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Lithologic code      | Description of material    |
|-----------------------|----------------------|----------------------|-------------------------|--------------------------------|-----------------------|----------------------|----------------------------|
| Merrimack County      |                      |                      |                         |                                |                       |                      |                            |
| New London--Continued |                      |                      |                         |                                |                       |                      |                            |
| NIW 80                | --                   | 275.0                | --                      | 0.0                            | 13.0                  | 110SDMN SDGL BEDROCK |                            |
| NIW 81                | --                   | 285.0                | --                      | 0.0                            | 1.0                   | 110SDMN SAND BEDROCK |                            |
| NIW 82                | --                   | 320.0                | --                      | 0.0                            | 15.0                  | 112TILL TILL BEDROCK |                            |
| NIW 83                | --                   | 505.0                | --                      | 0.0                            | 10.0                  | 112TILL TILL BEDROCK |                            |
| NIW 84                | --                   | 420.0                | --                      | 0.0                            | 12.0                  | 112TILL TILL BEDROCK |                            |
| NIW 85                | --                   | 340.0                | --                      | 0.0                            | 6.0                   | 112TILL TILL BEDROCK |                            |
| NIW 86                | --                   | 420.0                | --                      | 0.0                            | 12.0                  | 112TILL TILL BEDROCK |                            |
| NIW 87                | --                   | 605.0                | --                      | 0.0                            | 5.0                   | 110SDMN SAND BEDROCK |                            |
| NIW 90                | --                   | 325.0                | --                      | 0.0                            | 8.0                   | 110SDMN SAND BEDROCK |                            |
| NIW 92                | --                   | 330.0                | --                      | 0.0                            | 2.0                   | 110SDMN SDGL BEDROCK |                            |
| NIW 94                | 32.0                 | 32.0                 | --                      | 0.0                            | 10.0                  | 112SRFD SAND         | Fine                       |
|                       |                      |                      |                         | 10.0                           | 15.0                  | 112SRFD SAND         | Fine. Little silt (layers) |
|                       |                      |                      |                         | 15.0                           | 24.0                  | 112SRFD SAND         | Fine                       |
|                       |                      |                      |                         | 24.0                           | 28.0                  | 112SRFD SDGL         | Coarse-fine                |
|                       |                      |                      |                         | 28.0                           | 30.0                  | 112SRFD SAND         | Fine                       |
|                       |                      |                      |                         | 30.0                           | --                    | 112SRFD SILT         | Trace sand and gravel      |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                      | Depth                 |                          |
|-----------------------|----------------------|----------------------|-------------------------|--------------------------------|------------------|--|-----------------------|--------------------------|
|                       |                      |                      |                         |                                |                  |  | to top of unit (feet) | to bottom of unit (feet) |
| Merrimack County      |                      |                      |                         |                                |                  |  |                       |                          |
| New London--Continued |                      |                      |                         |                                |                  |  |                       |                          |
| NLW 95                | 51.0                 | 47.0                 | --                      | 0.0                            | 47.0             | 112SRFD SAND Fine                            |                       |                          |
|                       |                      |                      |                         | 47.0                           | 49.0             | 112SRFD SDGL Coarse-fine                     |                       |                          |
|                       |                      |                      |                         | 49.0                           | --               | 112SRFD SILT Trace sand and gravel           |                       |                          |
| NLW 96                | --                   | 385.0                | --                      | 0.0                            | 68.0             | 110SDMN SAND                                 |                       |                          |
|                       |                      |                      |                         | 68.0                           | --               | BEDROCK ROCK                                 |                       |                          |
| NLW 97                | --                   | 145.0                | --                      | 0.0                            | 43.0             | 110SDMN SAND                                 |                       |                          |
|                       |                      |                      |                         | 43.0                           | --               | BEDROCK ROCK                                 |                       |                          |
| NLW 98                | --                   | 385.0                | --                      | 0.0                            | 30.0             | 110SDMN SDGL                                 |                       |                          |
|                       |                      |                      |                         | 30.0                           | --               | BEDROCK ROCK                                 |                       |                          |
| NLW 105               | --                   | 278.0                | --                      | 0.0                            | 53.0             | 110SDMN SAND                                 |                       |                          |
|                       |                      |                      |                         | 53.0                           | --               | BEDROCK ROCK                                 |                       |                          |
| NLW 106               | --                   | 325.0                | --                      | 0.0                            | 30.0             | 110SDMN SDGL                                 |                       |                          |
|                       |                      |                      |                         | 30.0                           | --               | BEDROCK ROCK                                 |                       |                          |
| NLW 107               | --                   | 280.0                | --                      | 0.0                            | --               | 110SDMN SDGL                                 |                       |                          |
|                       |                      |                      |                         | --                             | --               | 112TILL TILL                                 |                       |                          |
|                       |                      |                      |                         | --                             | --               | 110SDMN SAND                                 |                       |                          |
|                       |                      |                      |                         | 15.0                           | --               | BEDROCK ROCK                                 |                       |                          |
| Salisbury             |                      |                      |                         |                                |                  |  |                       |                          |
| SBA 1                 | 26.0                 | --                   | 26.0                    | 0.0                            | 12.0             | 110SOIL SOIL Top soil                        |                       |                          |
|                       |                      |                      |                         | 12.0                           | 24.0             | 112SRFD SAND Coarse to very coarse sand      |                       |                          |
|                       |                      |                      |                         | 24.0                           | 26.0             | 112TILL TILL Clayey till, refusal at 26 feet |                       |                          |
| SBA 2                 | 50.0                 | --                   | --                      | 0.0                            | 2.0              | 111SOIL SOIL Top soil                        |                       |                          |
|                       |                      |                      |                         | 2.0                            | 16.0             | 112SRFD SAND Coarse to medium sand           |                       |                          |
|                       |                      |                      |                         | 16.0                           | 50.0             | 112SRFD STCL Silt, clay, very fine sand      |                       |                          |
| SBB 1                 | 75.0                 | 16.0                 | --                      | 0.0                            | 16.0             | 110SDMN SAND Medium to fine sand             |                       |                          |
|                       |                      |                      |                         | 16.0                           | 73.0             | 112SRFD STCL                                 |                       |                          |
|                       |                      |                      |                         | 73.0                           | --               | 112TILL TILL                                 |                       |                          |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number    | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Litho-logic code | Description of material                    | Depth                    |                       |
|----------------------|----------------------|----------------------|-------------------------|-----------------------------|------------------|--|--------------------------|-----------------------|
|                      |                      |                      |                         |                             |                  |  | to bottom of unit (feet) | to top of unit (feet) |
| Merrimack County     |                      |                      |                         |                             |                  |  |                          |                       |
| Salisbury--Continued |                      |                      |                         |                             |                  |  |                          |                       |
| SBB 3                | 37.0                 | --                   | 37.0                    | 0.0                         | 22.0             | 112SRFD SAND Medium to coarse              |                          |                       |
|                      |                      |                      |                         | 22.0                        | 27.0             | 112SRFD SAND Medium to coarse, some gravel |                          |                       |
|                      |                      |                      |                         | 27.0                        | 30.5             | 112SRFD SAND Coarse to fine sand           |                          |                       |
|                      |                      |                      |                         | 30.5                        | --               | 112TILL TILL                               |                          |                       |
| SBW 1                | --                   | 126.0                | --                      | 34.0                        | 0.0              | 8BEDROCK ROCK --                           |                          |                       |
| SBW 2                | --                   | 148.0                | --                      | 8.0                         | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 3                | --                   | 145.0                | --                      | 12.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 4                | --                   | 123.0                | --                      | 45.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 5                | --                   | 40.0                 | --                      | 14.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 7                | --                   | 143.0                | --                      | 15.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 8                | --                   | 195.0                | --                      | 34.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 9                | --                   | 98.0                 | --                      | 25.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 10               | --                   | 125.0                | --                      | 65.0                        | --               | BEDROCK ROCK --                            |                          |                       |
| SBW 11               | --                   | 598.0                | --                      | 0.0                         | 28.0             | 110SDMN BEDROCK ROCK                       |                          |                       |
| SBW 12               | --                   | 385.0                | --                      | 0.0                         | 30.0             | 110SDMN BEDROCK ROCK                       |                          |                       |
| SBW 13               | 79.0                 | 16.0                 | --                      | 0.0                         | 17.0             | 112SRFD SAND Coarse to fine                |                          |                       |
|                      |                      |                      |                         | 17.0                        | 47.0             | 112SRFD SAND Fine to very fine             |                          |                       |
|                      |                      |                      |                         | 47.0                        | 77.0             | 112SRFD STCL                               |                          |                       |
|                      |                      |                      |                         | 77.0                        | --               | 112TILL TILL                               |                          |                       |
| SBW 15               | --                   | 409.0                | --                      | 0.0                         | 45.0             | 112TILL TILL                               |                          |                       |
|                      |                      |                      |                         | 45.0                        | --               | BEDROCK ROCK                               |                          |                       |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| SBW 16            | --                   | 208.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      | --                          | --                             | 110SDMN CLAY     |                         |
|                   |                      |                      | 50.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 17            | --                   | 385.0                | --                          | 160.0                          | BEDROCK ROCK     |                         |
| SBW 19            | --                   | 175.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      | 15.0                        | 50.0                           | 112TILL TILL     |                         |
|                   |                      |                      | 50.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 20            | --                   | 404.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | 25.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 21            | --                   | 605.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      | 60.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 22            | --                   | 303.0                | --                          | 0.0                            | 112TILL TILL     | Gravel, hardpan         |
|                   |                      |                      | --                          | --                             | 112TILL TILL     |                         |
|                   |                      |                      | 106.0                       | --                             | BEDROCK ROCK     |                         |
| SBW 23            | --                   | 700.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      | 4.0                         | --                             | BEDROCK ROCK     |                         |
| SBW 24            | --                   | 405.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      | 50.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 25            | --                   | 245.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      | 10.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 26            | --                   | 465.0                | --                          | 72.0                           | BEDROCK ROCK     |                         |
| SBW 27            | --                   | 22.0                 | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      | 14.0                        | --                             | 112TILL TILL     |                         |
| SBW 28            | --                   | 720.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | --                          | --                             | 110SDMN CLAY     |                         |
|                   |                      |                      | 105.0                       | --                             | BEDROCK ROCK     |                         |

B-140

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
| SBW 29            | --                   | 150.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | --                          | --                             | 110SDMN SDGL     |                         |
|                   |                      |                      | 63.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 33            | --                   | 140.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | --                          | --                             | 110SDMN CLAY     |                         |
|                   |                      |                      | 80.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 34            | --                   | 495.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      | 1.0                         | --                             | BEDROCK ROCK     |                         |
| SBW 35            | --                   | 715.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | 4.0                         | --                             | BEDROCK ROCK     |                         |
| SBW 36            | --                   | 475.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | 62.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 37            | --                   | 155.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | 10.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 38            | --                   | 305.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | 24.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 40            | --                   | 345.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      | 5.0                         | --                             | BEDROCK ROCK     |                         |
| SBW 43            | --                   | 282.0                | --                          | 0.0                            | 110SDMN OTHR     |                         |
|                   |                      |                      | 98.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 44            | --                   | 800.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      | 10.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 45            | --                   | 150.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      | 60.0                        | --                             | BEDROCK ROCK     |                         |
| SBW 46            | --                   | 155.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      | 7.0                         | --                             | BEDROCK ROCK     |                         |

B-141

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Litho-logic code   | Description of material       |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------------|--|-------------------------------|
| SW 64             | --                   | 300.0                | --                          | 0.0                            | --                    | 11ZLILL<br>11USJMN<br>11USJMN<br>CLAY<br>BEDROCK<br>ROCK | 11LL<br>SOIL<br>CLAY<br>ROCK  |
| Merrimack County  |                      |                      |                             |                                |                       |  |                               |
| SW 1              | 15.0                 | --                   | --                          | 0.0                            | --                    | 11USJMN  | GRVL                          |
| SW 2              | 26.0                 | --                   | --                          | 0.0                            | 7.0                   | 11ZLILL<br>BEDROCK<br>ROCK                               | 11LL<br>Sandy<br>ROCK         |
| SW 3              | 18.5                 | --                   | 18.5                        | 0.0                            | --                    | 11ZLILL  | 11LL<br>Sandy                 |
| SW 4              | 15.0                 | --                   | 15.0                        | 0.0                            | 1.0                   | 11USJMN  | SOIL                          |
| SW 5              | 17.0                 | --                   | 17.0                        | 0.0                            | 2.0                   | 11USJMN<br>11ZLILL                                       | SOIL<br>11LL<br>Sandy         |
| SW 6              | 21.0                 | --                   | --                          | 0.0                            | 1.0                   | 11USJMN<br>11ZLILL<br>BEDROCK<br>ROCK                    | SOIL<br>11LL<br>Sandy<br>ROCK |
| SW 7              | 15.0                 | --                   | --                          | 0.0                            | 2.0                   | 11USJMN<br>11ZLILL<br>BEDROCK<br>ROCK                    | SOIL<br>11LL<br>Sandy<br>ROCK |
| SW 8              | 20.0                 | --                   | --                          | 0.0                            | 2.0                   | 11USJMN<br>11ZLILL<br>BEDROCK<br>ROCK                    | SOIL<br>11LL<br>Sandy<br>ROCK |
| SW 9              | 26.0                 | --                   | --                          | 0.0                            | 1.0                   | 11USJMN<br>11ZLILL<br>BEDROCK<br>ROCK                    | SOIL<br>11LL<br>Sandy<br>ROCK |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Depth to Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|-----------------------|------------------|-------------------------|
| Merrimack County  |                      |                      |                             |                                |                       |                  |                         |
| Sutton--Continued |                      |                      |                             |                                |                       |                  |                         |
| SW 10             | --                   | --                   | --                          | 5.0                            | 11Z01SH               | GRVL             |                         |
| SW 1              | --                   | 70.0                 | --                          | 6.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 2              | --                   | 115.0                | --                          | 16.0                           | --                    | BEDROCK<br>ROCK  | --                      |
| SW 4              | --                   | 498.0                | --                          | 20.0                           | --                    | BEDROCK<br>ROCK  | --                      |
| SW 6              | --                   | 280.0                | --                          | 104.0                          | --                    | BEDROCK<br>ROCK  | --                      |
| SW 7              | --                   | 150.0                | --                          | 5.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 8              | --                   | 185.0                | --                          | 3.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 9              | --                   | 500.0                | --                          | 37.0                           | --                    | BEDROCK<br>ROCK  | --                      |
| SW 10             | --                   | 172.0                | --                          | 25.0                           | --                    | BEDROCK<br>ROCK  | --                      |
| SW 11             | --                   | 47.0                 | --                          | 5.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 12             | --                   | 115.0                | --                          | 4.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 14             | --                   | 112.0                | --                          | 2.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 15             | --                   | 235.0                | --                          | 5.0                            | --                    | BEDROCK<br>ROCK  | --                      |
| SW 16             | 32.0                 | 20.0                 | 32.0                        | 0.0                            | 11ZSKFD               | SOIL             | Medium to fine          |
| SW 18             | --                   | 800.0                | --                          | 0.0                            | 11USJMN               | SOIL             | Some fine sand          |
| SW 19             | --                   | 320.0                | --                          | 0.0                            | 11ZLILL               | 11LL             | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code                   | Description of material |
|-------------------|----------------------|----------------------|-------------------------|---------------------|--------------------------------|------------------------------------|-------------------------|
|                   |                      |                      |                         |                     |                                |                                    |                         |
| SYW 20            | --                   | 415.0                | --                      | 0.0                 | 13.0                           | 110SDMH SAND<br>BEDROCK            |                         |
| SYW 21            | --                   | 555.0                | --                      | 60.0                | --                             | BEDROCK                            |                         |
| SYW 23            | --                   | 115.0                | --                      | 2.0                 | --                             | BEDROCK                            |                         |
| SYW 24            | --                   | 620.0                | --                      | 58.0                | --                             | BEDROCK                            |                         |
| SYW 25            | --                   | 300.0                | --                      | 0.0                 | 6.0                            | 112TILL<br>BEDROCK                 |                         |
| SYW 26            | --                   | 145.0                | --                      | 0.0                 | 43.0                           | 110SDMH SDGL<br>BEDROCK            |                         |
| SYW 28            | --                   | 162.0                | --                      | 0.0                 | 16.0                           | 112TILL<br>BEDROCK                 |                         |
| SYW 29            | --                   | 14.0                 | --                      | 0.0                 | --                             | 110SDMH SDGL<br>112TILL<br>BEDROCK |                         |
| SYW 30            | --                   | 127.0                | --                      | 0.0                 | 23.0                           | 110SDMH SDGL<br>BEDROCK            |                         |
| SYW 31            | --                   | 285.0                | --                      | 0.0                 | 53.5                           | 110SDMH SAND<br>BEDROCK            |                         |
| SYW 32            | --                   | 280.0                | --                      | 0.0                 | --                             | 112TILL<br>110SDMH SAND<br>BEDROCK |                         |
| SYW 33            | --                   | 200.0                | --                      | 0.0                 | 22.0                           | 112TILL<br>BEDROCK                 |                         |
| SYW 34            | --                   | 300.0                | --                      | 20.0                | --                             | BEDROCK                            |                         |
| SYW 35            | --                   | 220.0                | --                      | 20.0                | --                             | BEDROCK                            |                         |

Merrimack County

Sutton--Continued

B-144

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code        | Description of material |
|-------------------|----------------------|----------------------|-------------------------|---------------------|--------------------------------|-------------------------|-------------------------|
|                   |                      |                      |                         |                     |                                |                         |                         |
| SYW 36            | --                   | 335.0                | --                      | 23.0                | --                             | BEDROCK                 |                         |
| SYW 37            | --                   | 375.0                | --                      | 0.0                 | 11.0                           | 110SDMH SDGL<br>BEDROCK |                         |
| SYW 38            | --                   | 14.0                 | --                      | 0.0                 | --                             | 110SDMH SAND            |                         |
| SYW 40            | --                   | 703.0                | --                      | 8.0                 | --                             | BEDROCK                 |                         |
| SYW 41            | --                   | 604.0                | --                      | 0.0                 | 80.0                           | 110SDMH SDGL<br>BEDROCK |                         |
| SYW 42            | --                   | 19.0                 | --                      | 0.0                 | --                             | 110SDMH SAND<br>112TILL |                         |
| SYW 43            | --                   | 160.0                | --                      | 0.0                 | 68.0                           | 112TILL<br>BEDROCK      |                         |
| SYW 44            | --                   | 232.0                | --                      | 94.0                | --                             | BEDROCK                 |                         |
| SYW 45            | --                   | 365.0                | --                      | 0.0                 | 8.0                            | 112TILL<br>BEDROCK      |                         |
| SYW 46            | --                   | 11.0                 | --                      | 0.0                 | --                             | 110SDMH SAND<br>SDGL    |                         |
| SYW 47            | --                   | 325.0                | --                      | 0.0                 | 30.0                           | 110SDMH SDGL<br>BEDROCK |                         |
| SYW 48            | --                   | 585.0                | --                      | 0.0                 | 11.0                           | 112TILL<br>BEDROCK      |                         |
| SYW 49            | --                   | 400.0                | --                      | 0.0                 | 8.0                            | 112TILL<br>BEDROCK      |                         |

Merrimack County

Sutton--Continued

B-145

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Lithologic code    | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|--------------------|-------------------------|
|                   |                      |                      |                         |                             |                                |                    |                         |
| Merrimack County  |                      |                      |                         |                             |                                |                    |                         |
| Sutton--Continued |                      |                      |                         |                             |                                |                    |                         |
| SYW 50            | --                   | 325.0                | --                      | 0.0                         | 74.0                           | 112TILL<br>BEDROCK | TILL<br>ROCK            |
| SYW 51            | --                   | 520.0                | --                      | 0.0                         | 3.0                            | 112TILL<br>BEDROCK | TILL<br>ROCK            |
| SYW 52            | --                   | 147.0                | --                      | 0.0                         | 104.0                          | 110SDMN<br>BEDROCK | SAND<br>ROCK            |
| SYW 53            | --                   | 205.0                | --                      | 0.0                         | 40.0                           | 110SDMN<br>BEDROCK | SDGL<br>ROCK            |
| SYW 54            | --                   | 300.0                | --                      | 0.0                         | 18.0                           | 112TILL<br>BEDROCK | TILL<br>ROCK            |
| SYW 55            | --                   | 720.0                | --                      | 0.0                         | 27.0                           | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |
| SYW 56            | --                   | 705.0                | --                      | 0.0                         | 22.0                           | 110SDMN<br>BEDROCK | SAND<br>ROCK            |
| SYW 57            | --                   | 305.0                | --                      | 0.0                         | 18.0                           | 110SDMN<br>BEDROCK | SAND<br>ROCK            |
| SYW 58            | --                   | 415.0                | --                      | 0.0                         | 71.0                           | 112TILL<br>BEDROCK | TILL<br>ROCK            |
| SYW 59            | --                   | 294.0                | --                      | 0.0                         | 13.0                           | 112TILL<br>BEDROCK | TILL<br>ROCK            |
| SYW 60            | --                   | 385.0                | --                      | 0.0                         | 20.0                           | 110SDMN<br>BEDROCK | SAND<br>ROCK            |
| SYW 61            | --                   | 430.0                | --                      | 0.0                         | 3.0                            | 110SDMN<br>BEDROCK | SAND<br>ROCK            |
| SYW 62            | --                   | 415.0                | --                      | 0.0                         | 40.0                           | 110SDMN<br>BEDROCK | CLAY<br>ROCK            |

B-146

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Lithologic code               | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|-------------------------------|-------------------------|
|                   |                      |                      |                         |                             |                                |                               |                         |
| Merrimack County  |                      |                      |                         |                             |                                |                               |                         |
| Sutton--Continued |                      |                      |                         |                             |                                |                               |                         |
| SYW 63            | --                   | 485.0                | --                      | 68.0                        | --                             | BEDROCK                       | ROCK                    |
| SYW 64            | --                   | 285.0                | --                      | 0.0                         | 15.0                           | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 65            | --                   | 395.0                | --                      | 0.0                         | --                             | 112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK    |
| SYW 66            | --                   | 545.0                | --                      | 0.0                         | 9.0                            | 110SDMN<br>BEDROCK            | SDGL<br>ROCK            |
| SYW 67            | --                   | 163.0                | --                      | 0.0                         | 6.0                            | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 68            | --                   | 227.0                | --                      | 0.0                         | 25.0                           | 110SDMN<br>BEDROCK            | SAND<br>ROCK            |
| SYW 69            | --                   | 160.0                | --                      | 0.0                         | 50.0                           | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 70            | --                   | 310.0                | --                      | 0.0                         | 32.0                           | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 71            | --                   | 420.0                | --                      | 0.0                         | 25.0                           | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 72            | --                   | 240.0                | --                      | 0.0                         | 25.0                           | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 73            | --                   | 340.0                | --                      | 0.0                         | 15.0                           | 112TILL<br>BEDROCK            | TILL<br>ROCK            |
| SYW 74            | --                   | 300.0                | --                      | 0.0                         | 10.0                           | 110SDMN<br>BEDROCK            | CLAY<br>ROCK            |
| SYW 75            | --                   | 285.0                | --                      | 0.0                         | 15.0                           | 110SDMN<br>BEDROCK            | SDGL<br>ROCK            |

B-147

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                             |                                |              |                 |                         |

Merrimack County

Sutton--Continued

|        |    |       |    |      |      |              |  |
|--------|----|-------|----|------|------|--------------|--|
| SYW 76 | -- | 305.0 | -- | 0.0  | --   | 110SDMN SAND |  |
|        |    |       |    | --   | --   | 112TILL TILL |  |
|        |    |       |    | 31.0 | --   | BEDROCK ROCK |  |
| SYW 77 | -- | 405.0 | -- | 0.0  | 5.0  | 110SDMN SAND |  |
|        |    |       |    | 5.0  | --   | BEDROCK ROCK |  |
| SYW 78 | -- | 600.0 | -- | 0.0  | 10.0 | 110SDMN SDGL |  |
|        |    |       |    | 10.0 | --   | BEDROCK ROCK |  |
| SYW 79 | -- | 305.0 | -- | 0.0  | 5.0  | 110SDMN CLAY |  |
|        |    |       |    | 5.0  | --   | BEDROCK ROCK |  |
| SYW 80 | -- | 12.0  | -- | 0.0  | 14.0 | 110SDMN SAND |  |
|        |    |       |    | 14.0 | --   | 110SDMN CLAY |  |
| SYW 81 | -- | 285.0 | -- | 0.0  | 4.0  | 110SDMN SDGL |  |
|        |    |       |    | 4.0  | --   | BEDROCK ROCK |  |
| SYW 82 | -- | 405.0 | -- | 0.0  | 9.0  | 110SDMN SDGL |  |
|        |    |       |    | 9.0  | --   | BEDROCK ROCK |  |
| SYW 83 | -- | 365.0 | -- | 0.0  | --   | 112TILL TILL |  |
|        |    |       |    | --   | --   | 110SDMN CLAY |  |
|        |    |       |    | 29.0 | --   | BEDROCK ROCK |  |
| SYW 84 | -- | 255.0 | -- | 0.0  | 30.0 | 112TILL TILL |  |
|        |    |       |    | 30.0 | --   | BEDROCK ROCK |  |
| SYW 85 | -- | 305.0 | -- | 0.0  | 6.0  | 110SDMN SDGL |  |
|        |    |       |    | 6.0  | --   | BEDROCK ROCK |  |
| SYW 86 | -- | 705.0 | -- | 0.0  | 16.0 | 112TILL TILL |  |
|        |    |       |    | 16.0 | --   | BEDROCK ROCK |  |
| SYW 87 | -- | 500.0 | -- | 0.0  | 4.0  | 110SDMN SDGL |  |
|        |    |       |    | 4.0  | --   | BEDROCK ROCK |  |

B-148

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                             |                                |              |                 |                         |

Merrimack County

Sutton--Continued

|         |    |       |    |       |      |              |  |
|---------|----|-------|----|-------|------|--------------|--|
| SYW 88  | -- | 280.0 | -- | 0.0   | 12.0 | 110SDMN SDGL |  |
|         |    |       |    | 12.0  | --   | BEDROCK ROCK |  |
| SYW 89  | -- | 365.0 | -- | 0.0   | --   | 112TILL TILL |  |
|         |    |       |    | --    | --   | 110SDMN SDGL |  |
|         |    |       |    | 65.0  | --   | BEDROCK ROCK |  |
| SYW 90  | -- | 305.0 | -- | 0.0   | --   | 110SDMN SDGL |  |
|         |    |       |    | --    | --   | 112TILL TILL |  |
|         |    |       |    | 18.0  | --   | BEDROCK ROCK |  |
| SYW 91  | -- | 365.0 | -- | 0.0   | 9.0  | 110SDMN SDGL |  |
|         |    |       |    | 9.0   | --   | BEDROCK ROCK |  |
| SYW 92  | -- | 125.0 | -- | 0.0   | 15.0 | 112TILL TILL |  |
|         |    |       |    | 15.0  | --   | BEDROCK ROCK |  |
| SYW 93  | -- | 300.0 | -- | 3.5   | --   | BEDROCK ROCK |  |
| SYW 94  | -- | 310.0 | -- | 0.0   | 6.0  | 112TILL TILL |  |
|         |    |       |    | 6.0   | --   | BEDROCK ROCK |  |
| SYW 95  | -- | 220.0 | -- | 0.0   | 15.0 | 110SDMN SDGL |  |
|         |    |       |    | 15.0  | --   | BEDROCK ROCK |  |
| SYW 96  | -- | 520.0 | -- | 0.0   | 78.0 | 112TILL TILL |  |
|         |    |       |    | 78.0  | --   | BEDROCK ROCK |  |
| SYW 97  | -- | 440.0 | -- | 0.0   | 46.0 | 112TILL TILL |  |
|         |    |       |    | 46.0  | --   | BEDROCK ROCK |  |
| SYW 98  | -- | 500.0 | -- | 180.0 | --   | BEDROCK ROCK |  |
| SYW 99  | -- | 400.0 | -- | 0.0   | 10.0 | 110SDMN SDGL |  |
|         |    |       |    | 10.0  | --   | BEDROCK ROCK |  |
| SYW 100 | -- | 400.0 | -- | 0.0   | 3.0  | 112TILL TILL |  |
|         |    |       |    | 3.0   | --   | BEDROCK ROCK |  |

B-149

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| SYW 101           | --                   | 27.0                 | 27                          | 0.0                            | 110SDMN      | SOVC             |                         |
|                   |                      |                      | 18.0                        | 18.0                           | --           | 112TILL          | TILL                    |
| SYW 102           | --                   | 24.0                 | 24                          | 0.0                            | 110SDMN      | SOVC             |                         |
|                   |                      |                      | 20.0                        | 20.0                           | --           | 112TILL          | TILL                    |
| SYW 103           | --                   | 41.0                 | 41                          | 0.0                            | 110SDMN      | SOVC             |                         |
|                   |                      |                      | 16.0                        | 16.0                           | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 33.0                        | 33.0                           | --           | 110SDMN          | SDCL                    |
| SYW 104           | --                   | 27.0                 | 27                          | 0.0                            | 110SDMN      | SOVC             |                         |
|                   |                      |                      | 9.0                         | 9.0                            | 110SDMN      | CLAY             |                         |
|                   |                      |                      | 21.0                        | 21.0                           | --           | 112TILL          | TILL                    |
| SYW 105           | 440                  | 120.0                | 85                          | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      | 85.0                        | 85.0                           | --           | BEDROCK          | ROCK                    |
| SYW 106           | 460                  | 200.0                | 185                         | 0.0                            | 110SDMN      | SDGL             |                         |
|                   |                      |                      | 185.0                       | 185.0                          | --           | BEDROCK          | ROCK                    |
| WCB 2             | 41.0                 | --                   | --                          | 0.0                            | 5.0          | 110SDMN          | MUCK Sand               |
|                   |                      |                      |                             | 5.0                            | 15.0         | 112SRFD          | SAND Coarse             |
|                   |                      |                      |                             | 29.0                           | 112SRFD      | SAND Fine        |                         |
|                   |                      |                      |                             | 34.0                           | 112SRFD      | SAND Fine, silt  |                         |
|                   |                      |                      |                             | 34.0                           | --           | 112SRFD          | SAND Gravelly           |
| WCB 3             | 100.0                | --                   | 100.0                       | 0.0                            | 4.0          | 110SDMN          | LOAM Sand               |
|                   |                      |                      |                             | 4.0                            | 55.0         | 112SRFD          | SAND Medium, coarse     |
|                   |                      |                      |                             | 55.0                           | 82.0         | 112SRFD          | SAND Fine               |
|                   |                      |                      |                             | 82.0                           | --           | 112TILL          | TILL Sandy              |
| WCB 4             | 22.0                 | --                   | 22.0                        | 0.0                            | 1.0          | 110SOIL          | SOIL                    |
|                   |                      |                      |                             | 1.0                            | --           | 112TILL          | TILL Sandy              |

Merrimack County

Sutton--Continued

B-150

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|------------------|-------------------------|
| WCB 5             | 14.0                 | --                   | 14.0                        | 0.0                            | 4.5          | 110SDMN          | SDGL Boulders           |
|                   |                      |                      |                             | 4.5                            | 11.2         | 110SDMN          | SDGL                    |
|                   |                      |                      |                             | 11.2                           | --           | 110SDMN          | SDGL Little clay        |
| WCB 6             | 25.8                 | --                   | 25.8                        | 0.0                            | 6.0          | 110SDMN          | SAND Silty              |
|                   |                      |                      |                             | 6.0                            | 7.8          | 110SDMN          | SAND Fine               |
|                   |                      |                      |                             | 7.8                            | --           | 112SRFD          | SDGL Coarse             |
| WCB 7             | 37.5                 | --                   | 37.5                        | 0.0                            | 3.5          | 110SDMN          | SAND Silty              |
|                   |                      |                      |                             | 3.5                            | 5.0          | 110SDMN          | SDGL Silt               |
|                   |                      |                      |                             | 5.0                            | 13.2         | 112SRFD          | SAND Fine               |
|                   |                      |                      |                             | 13.2                           | 30.0         | 112SRFD          | SAND Medium, coarse     |
|                   |                      |                      |                             | 30.0                           | --           | 112SRFD          | SDGL Coarse             |
| WCB 8             | 25.0                 | --                   | 25.0                        | 0.0                            | --           | 112SRFD          | GRVL                    |
| WCB 9             | 36.5                 | --                   | 37.0                        | 0.0                            | 4.0          | 111FILL          | SAND                    |
|                   |                      |                      |                             | 4.0                            | 12.0         | 110SDMN          | SAND                    |
|                   |                      |                      |                             | 12.0                           | 30.0         | 112SRFD          | GRVL                    |
|                   |                      |                      |                             | 30.0                           | --           | 112SRFD          | SDST Fine               |
| WCB 10            | 34.0                 | --                   | 34.0                        | 0.0                            | 3.0          | 110SDMN          | LOAM Sandy              |
|                   |                      |                      |                             | 3.0                            | 31.0         | 112SRFD          | GRVL                    |
|                   |                      |                      |                             | 31.0                           | --           | 112TILL          | TILL Sandy              |
| WCB 11            | 37.0                 | --                   | --                          | 0.0                            | 5.0          | 110SDMN          | SAND Fine               |
|                   |                      |                      |                             | 5.0                            | 15.0         | 112SRFD          | GRVL                    |
|                   |                      |                      |                             | 15.0                           | 32.0         | 112SRFD          | SAND Fine               |
|                   |                      |                      |                             | 32.0                           | --           | 112TILL          | TILL Sandy              |
| WCB 12            | 14.0                 | --                   | 14.0                        | 0.0                            | 1.0          | 110SOIL          | SOIL                    |
|                   |                      |                      |                             | 1.0                            | 4.0          | 110SDMN          | SAND Coarse             |
|                   |                      |                      |                             | 4.0                            | --           | 112TILL          | TILL Sandy              |
| WCB 13            | 18.5                 | --                   | 18.5                        | 0.0                            | 1.0          | 110SOIL          | SOIL                    |
|                   |                      |                      |                             | 1.0                            | --           | 112TILL          | TILL Sandy              |

Merrimack County

Warner--Continued

B-151



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Merrimack County

Warner--Continued

|        |      |    |      |      |      |         |                   |
|--------|------|----|------|------|------|---------|-------------------|
| MCB 14 | 76.0 | -- | 76.0 | 0.0  | 5.0  | 110SDMN | MUCK Sand         |
|        |      |    |      | 5.0  | 9.0  | 110SDMN | GRVL              |
|        |      |    |      | 9.0  | 27.0 | 112SRFD | SAND Silt, fine   |
|        |      |    |      | 27.0 | 69.0 | 112SRFD | SAND Fine         |
|        |      |    |      | 69.0 | --   | 112TILL | TILL Sandy        |
| MCB 15 | 41.0 | -- | --   | 0.0  | 5.0  | 110SDMN | MUCK Sand         |
|        |      |    |      | 5.0  | 10.0 | 110SDMN | SAND Coarse       |
|        |      |    |      | 10.0 | 14.0 | 110SDMN | MUCK              |
|        |      |    |      | 14.0 | 20.0 | 112SRFD | SAND Fine         |
|        |      |    |      | 20.0 | 30.0 | 112SRFD | SILT Sand, fine   |
|        |      |    |      | 30.0 | --   | 112SRFD | SAND Gravelly     |
| MCB 16 | 36.0 | -- | 36.0 | 0.0  | 1.5  | 110SOIL | SOIL              |
|        |      |    |      | 1.5  | 33.0 | 112SRFD | GRVL Sandy        |
|        |      |    |      | 33.0 | --   | 112TILL | TILL Sandy        |
| MCB 17 | 45.0 | -- | 45.0 | 0.0  | 1.0  | 110SOIL | SOIL              |
|        |      |    |      | 1.0  | 35.0 | 112SRFD | GRVL Sandy        |
|        |      |    |      | 35.0 | --   | 112TILL | TILL Sandy        |
| MCB 18 | 37.0 | -- | 37.0 | 0.0  | 1.0  | 110SOIL | SOIL              |
|        |      |    |      | 1.0  | 7.0  | 110SDMN | SAND Fine         |
|        |      |    |      | 7.0  | 25.0 | 112SRFD | GRVL Sandy        |
|        |      |    |      | 25.0 | --   | 112TILL | TILL Sandy        |
| MCB 19 | 51.0 | -- | 51.0 | 0.0  | 1.0  | 110SOIL | SOIL              |
|        |      |    |      | 1.0  | 5.0  | 110SDMN | LOAM Sandy        |
|        |      |    |      | 5.0  | 40.0 | 112SRFD | GRVL              |
|        |      |    |      | 40.0 | --   | 112SRFD | SAND Fine, coarse |
| MCB 20 | 32.0 | -- | 32.0 | 0.0  | 4.0  | 110SDMN | SAND Muck         |
|        |      |    |      | 4.0  | 26.0 | 112SRFD | GRVL Sandy        |
|        |      |    |      | 26.0 | --   | 112TILL | TILL Sandy        |
| MCB 21 | 45.0 | -- | 45.0 | 0.0  | 1.0  | 110SOIL | SOIL              |
|        |      |    |      | 1.0  | --   | 112SRFD | GRVL Sandy        |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Merrimack County

Warner--Continued

|        |      |       |      |       |      |         |               |
|--------|------|-------|------|-------|------|---------|---------------|
| MCB 22 | 27.0 | --    | 27.0 | 0.0   | 1.0  | 110SOIL | SOIL          |
|        |      |       |      | 1.0   | 20.0 | 112SRFD | GRVL          |
|        |      |       |      | 20.0  | --   | 112TILL | TILL Sandy    |
| MCB 23 | 13.0 | --    | 13.0 | 0.0   | --   | 112SRFD | GRVL Sandy    |
| MCB 24 | 7.5  | --    | 7.5  | 0.0   | --   | 112TILL | TILL          |
| MCB 25 | 28.0 | --    | 28.0 | 0.0   | 23.0 | 112SRFD | GRVL          |
|        |      |       |      | 23.0  | --   | 112TILL | TILL Gravelly |
| MCB 26 | 32.0 | --    | 32.0 | 0.0   | --   | 112SRFD | GRVL          |
| MCB 27 | 36.0 | --    | 36.0 | 0.0   | --   | 112SRFD | GRVL          |
| MCB 28 | 33.0 | --    | 33.0 | 0.0   | --   | 112SRFD | GRVL          |
| MCW 6  | --   | 93.0  | --   | 12.0  | --   | BEDROCK | ROCK --       |
| MCW 7  | --   | 160.0 | --   | 33.0  | --   | BEDROCK | ROCK --       |
| MCW 9  | --   | 170.0 | --   | 10.0  | --   | BEDROCK | ROCK --       |
| MCW 10 | --   | 105.0 | --   | 8.0   | --   | BEDROCK | ROCK --       |
| MCW 11 | --   | 109.0 | --   | 16.0  | --   | BEDROCK | ROCK --       |
| MCW 13 | --   | 170.0 | --   | 14.0  | --   | BEDROCK | ROCK --       |
| MCW 14 | --   | 281.0 | --   | 40.0  | --   | BEDROCK | ROCK --       |
| MCW 15 | --   | 100.0 | --   | 3.0   | --   | BEDROCK | ROCK --       |
| MCW 16 | --   | 115.0 | --   | 11.0  | --   | BEDROCK | ROCK --       |
| MCW 17 | --   | 346.0 | --   | 20.0  | --   | BEDROCK | ROCK --       |
| MCW 18 | --   | 200.0 | --   | 104.0 | --   | BEDROCK | ROCK --       |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                            |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|--|
| WCW 19            | --                   | 110.0                | --                          | 24.0                           | WATER            | Water  |
| WCW 20            | 38.0                 | 38.0                 | --                          | 0.0                            | 110SOIL          | Top soil   |
|                   |                      |                      |                             | 2.0                            | 112SRFD          | Fine-medium sand, medium-coarse gravel             |
|                   |                      |                      |                             | 12.0                           | 112SRFD          | Medium sand  |
|                   |                      |                      |                             | 17.0                           | 112SRFD          | Coarse sand, fine-medium gravel                    |
|                   |                      |                      |                             | 26.0                           | 112SRFD          | Fine to medium                                     |
|                   |                      |                      |                             | 31.0                           | 112SRFD          | Medium-coarse sand, fine-medium gravel             |
|                   |                      |                      |                             | 32.0                           | 112SRFD          | Medium-coarse sand, medium-coarse gravel           |
| WCW 21            | 43.0                 | 43.0                 | --                          | 0.0                            | 110SOIL          | Top soil   |
|                   |                      |                      |                             | 2.0                            | 112SRFD          | Fine-medium sand, medium gravel                    |
|                   |                      |                      |                             | 19.0                           | 112SRFD          | Fine sand  |
|                   |                      |                      |                             | 26.0                           | 112SRFD          | Coarse sand, fine gravel                           |
|                   |                      |                      |                             | 27.0                           | 112SRFD          | Fine-medium sand, medium gravel                    |
|                   |                      |                      |                             | 28.0                           | 112SRFD          | Fine-coarse sand, medium gravel, trace silt        |
|                   |                      |                      |                             | 35.0                           | 112SRFD          | Fine-coarse sand, medium gravel, trace silt        |
| WCW 22            | 18.0                 | 18.0                 | 0.0                         | --                             | 112SRFD          | Gravel with silt, boulders                         |
| WCW 23            | 40.0                 | --                   | 40.0                        | 0.0                            | 110SOIL          | SOIL   |
|                   |                      |                      |                             | 2.0                            | 112SRFD          | Fine to medium                                     |
|                   |                      |                      |                             | 21.0                           | 112SRFD          | Medium-coarse sand, fine-medium gravel, trace silt |
| WCW 24            | 38.0                 | --                   | 38.0                        | 0.0                            | 110SOIL          | SOIL   |
|                   |                      |                      |                             | 2.0                            | 112SRFD          | Fine-coarse sand, fine-medium gravel               |
|                   |                      |                      |                             | 21.0                           | 112SRFD          | Fine-coarse sand, medium-coarse gravel             |
|                   |                      |                      |                             | 28.0                           | 112SRFD          | Fine-coarse sand, fine-medium gravel, trace silt   |
| WCW 25            | 54.0                 | 54.0                 | 54.0                        | 0.0                            | 110SOIL          | SOIL   |
|                   |                      |                      |                             | 2.0                            | 112SRFD          | Fine-medium sand, coarse gravel                    |
|                   |                      |                      |                             | 12.0                           | 112SRFD          | CLAY   |
|                   |                      |                      |                             | 16.0                           | 112SRFD          | Sand, gravel, and silt                             |
|                   |                      |                      |                             | 19.0                           | 112SRFD          | Fine to medium                                     |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                            |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|--|
| WCW 25            | 25                   | 25                   | 25                          | 26.0                           | 112SRFD          | SAND   |
|                   |                      |                      |                             | 36.0                           | 112SRFD          | Fine-medium, some coarse                           |
|                   |                      |                      |                             | 40.0                           | 112SRFD          | Fine-medium sand, fine-coarse gravel               |
|                   |                      |                      |                             | 47.0                           | 112SRFD          | Medium sand, fine gravel                           |
|                   |                      |                      |                             | 47.0                           | 112SRFD          | Medium-coarse sand, medium gravel                  |
| WCW 27            | 44.0                 | 44.0                 | --                          | 0.0                            | 110SOIL          | SOIL   |
|                   |                      |                      |                             | 1.0                            | 112SRFD          | SILT   |
|                   |                      |                      |                             | 18.0                           | 112SRFD          | SILT   |
|                   |                      |                      |                             | 18.0                           | 112SRFD          | Hard, little gravel, trace sand and clay           |
| WCW 28            | 41.5                 | 41.5                 | --                          | 0.0                            | 112SRFD          | SILT   |
|                   |                      |                      |                             | 40.0                           | 112SRFD          | Hard, little gravel, trace sand, clay, and cobbles |
|                   |                      |                      |                             | 40.0                           | 112SRFD          | ROCK   |
|                   |                      |                      |                             | 40.0                           | 112SRFD          | Rock or boulder                                    |
| WCW 29            | 52.4                 | 52.4                 | --                          | 0.0                            | 112SRFD          | SILT   |
|                   |                      |                      |                             | 9.0                            | 112SRFD          | Dense, little sand, trace gravel and clay          |
|                   |                      |                      |                             | 14.0                           | 112SRFD          | Dense, little gravel, trace sand and clay          |
|                   |                      |                      |                             | 51.9                           | 112SRFD          | Trace clay, gravel, and sand                       |
|                   |                      |                      |                             | 51.9                           | 112SRFD          | ROCK   |
|                   |                      |                      |                             | 51.9                           | 112SRFD          | Rock or boulder                                    |
| WCW 30            | 21.5                 | 21.5                 | --                          | 0.0                            | 112SRFD          | SDGL   |
|                   |                      |                      |                             | 8.0                            | 112SRFD          | Dense, fine, trace silt and cobbles                |
|                   |                      |                      |                             | 8.0                            | 112SRFD          | Dense, fine-coarse, some gravel, trace-little silt |
|                   |                      |                      |                             | 19.5                           | 112SRFD          | Little sand, trace gravel and cobbles              |
| WCW 31            | 10.6                 | --                   | 10.6                        | 0.0                            | 110SDMN          | FILL   |
|                   |                      |                      |                             | 1.4                            | 112SRFD          | SAND   |
|                   |                      |                      |                             | 7.0                            | 112SRFD          | Fine to medium, some silt                          |
|                   |                      |                      |                             | 7.0                            | 112SRFD          | Fine to coarse, trace silt, some cobbles           |
| WCW 32            | --                   | 12.0                 | --                          | 0.0                            | 112TILL          | TILL   |
| WCW 33            | --                   | 140.0                | --                          | 0.0                            | 110SDMN          | SAND   |
|                   |                      |                      |                             | --                             | 112TILL          | TILL   |
|                   |                      |                      |                             | 30.0                           | 112TILL          | ROCK   |
| WCW 34            | --                   | 141.0                | --                          | 0.0                            | 112TILL          | TILL   |
|                   |                      |                      |                             | 74.0                           | 112TILL          | ROCK   |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                             |                                |              |                 |                         |

Merrimack County

| Warner--Continued |    |       |    |      |      |              |               |
|-------------------|----|-------|----|------|------|--------------|---------------|
| MCW 35            | -- | 145.0 | -- | 0.0  | --   | 110SDMN SAND |               |
|                   |    |       |    | --   | --   | 112TILL TILL |               |
|                   |    |       |    | 15.0 | --   | BEDROCK ROCK |               |
| MCW 36            | -- | 295.0 | -- | 0.0  | 12.0 | 112TILL TILL |               |
|                   |    |       |    | --   | --   | BEDROCK ROCK |               |
| MCW 37            | -- | 205.0 | -- | 0.0  | 10.0 | 110SDMN SOGL |               |
|                   |    |       |    | --   | --   | BEDROCK ROCK |               |
| MCW 38            | -- | 180.0 | -- | 0.0  | 29.0 | 110SDMN SOGL |               |
|                   |    |       |    | --   | --   | BEDROCK ROCK |               |
| MCW 39            | -- | 24.0  | -- | 0.0  | --   | 110SDMN SOGL |               |
| MCW 41            | -- | 205.0 | -- | 64.0 | --   | BEDROCK ROCK |               |
| MCW 42            | -- | 420.0 | -- | 0.0  | --   | 112TILL TILL |               |
|                   |    |       |    | --   | --   | 110SDMN CLAY |               |
|                   |    |       |    | 90.0 | --   | BEDROCK ROCK |               |
| MCW 43            | -- | 340.0 | -- | 0.0  | 10.0 | 110SDMN SOGL |               |
|                   |    |       |    | --   | --   | BEDROCK ROCK |               |
| MCW 44            | -- | 295.0 | -- | 0.0  | --   | 112TILL TILL | Sand, hardpan |
|                   |    |       |    | --   | --   | 112TILL TILL |               |
|                   |    |       |    | --   | --   | 110SDMN SOGL |               |
|                   |    |       |    | 90.0 | --   | BEDROCK ROCK |               |
| MCW 45            | -- | 252.0 | -- | 0.0  | 55.0 | 112TILL TILL |               |
|                   |    |       |    | --   | --   | BEDROCK ROCK |               |
| MCW 46            | -- | 203.0 | -- | 0.0  | --   | 112TILL TILL | Sand, hardpan |
|                   |    |       |    | --   | --   | 110SDMN SOGL |               |
|                   |    |       |    | 72.0 | --   | BEDROCK ROCK |               |

B-156

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                             |                     |                                |              |                 |                         |

Merrimack County

| Warner--Continued |    |       |    |       |      |              |               |  |
|-------------------|----|-------|----|-------|------|--------------|---------------|--|
| MCW 47            | -- | 343.0 | -- | 0.0   | --   | 112TILL TILL | Sand, hardpan |  |
|                   |    |       |    | --    | --   | 112TILL TILL | Clay, hardpan |  |
|                   |    |       |    | 180.0 | --   | BEDROCK ROCK |               |  |
| MCW 48            | -- | 27.0  | -- | 0.0   | --   | 112TILL TILL |               |  |
| MCW 49            | -- | 85.0  | -- | 0.0   | 12.0 | 112TILL TILL |               |  |
|                   |    |       |    | --    | --   | BEDROCK ROCK |               |  |
| MCW 50            | -- | 255.0 | -- | 106.0 | --   | BEDROCK ROCK |               |  |
| MCW 51            | -- | 235.0 | -- | 7.0   | --   | BEDROCK ROCK |               |  |
| MCW 52            | -- | 402.0 | -- | 0.0   | 25.0 | 112TILL TILL |               |  |
|                   |    |       |    | --    | --   | BEDROCK ROCK |               |  |
| MCW 53            | -- | 235.0 | -- | 0.0   | 60.0 | 112TILL TILL |               |  |
|                   |    |       |    | --    | --   | BEDROCK ROCK |               |  |
| MCW 54            | -- | 165.0 | -- | 0.0   | --   | 112TILL TILL |               |  |
|                   |    |       |    | 6.0   | --   | BEDROCK ROCK |               |  |
| MCW 55            | -- | 100.0 | -- | 0.0   | 20.0 | 110SDMN SAND |               |  |
|                   |    |       |    | 20.0  | 55.0 | 112TILL TILL |               |  |
|                   |    |       |    | --    | --   | BEDROCK ROCK |               |  |
| MCW 56            | -- | 204.0 | -- | 0.0   | 18.0 | 112TILL TILL |               |  |
|                   |    |       |    | --    | --   | BEDROCK ROCK |               |  |
| MCW 57            | -- | 872.0 | -- | 0.0   | 26.0 | 112TILL TILL |               |  |
|                   |    |       |    | --    | --   | BEDROCK ROCK |               |  |
| MCW 58            | -- | 325.0 | -- | 0.0   | --   | 110SDMN SOGL |               |  |
|                   |    |       |    | --    | --   | 110SDMN CLAY |               |  |
|                   |    |       |    | 90.0  | --   | BEDROCK ROCK |               |  |
| MCW 59            | -- | 345.0 | -- | 0.0   | 50.0 | 110SDMN SOGL |               |  |
|                   |    |       |    | 50.0  | --   | BEDROCK ROCK |               |  |

B-157

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                             |                                |                  |                         |
| Merrimack County  |                      |                      |                             |                                |                  |                         |
| Warner--Continued |                      |                      |                             |                                |                  |                         |
| MCW 60            | --                   | 160.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 100.0                          | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 115.0                          | BEDROCK          |                         |
| MCW 61            | --                   | 580.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | --                             | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 151.0                          | BEDROCK          |                         |
| MCW 62            | --                   | 340.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 89.0                           | BEDROCK          |                         |
| MCW 63            | --                   | 435.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 9.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 35.0                           | 112TILL TILL     |                         |
|                   |                      |                      |                             | 97.0                           | BEDROCK          |                         |
| MCW 64            | --                   | 475.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 11.0                           | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 40.0                           | 112TILL TILL     |                         |
|                   |                      |                      |                             | 83.0                           | BEDROCK          |                         |
| MCW 65            | --                   | 535.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 21.0                           | BEDROCK          |                         |
| MCW 66            | --                   | 230.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 12.0                           | BEDROCK          |                         |
| MCW 67            | --                   | 325.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 12.0                           | BEDROCK          |                         |
| MCW 68            | --                   | 305.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 16.0                           | BEDROCK          |                         |
| MCW 69            | --                   | 440.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 20.0                           | BEDROCK          |                         |
| MCW 70            | --                   | 185.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 35.0                           | BEDROCK          |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                             |                                |                  |                         |
| Merrimack County  |                      |                      |                             |                                |                  |                         |
| Warner--Continued |                      |                      |                             |                                |                  |                         |
| MCW 71            | --                   | 365.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 65.0                           | BEDROCK          |                         |
| MCW 72            | --                   | 365.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 11.0                           | BEDROCK          |                         |
| MCW 73            | --                   | 365.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 4.0                            | BEDROCK          |                         |
| MCW 74            | --                   | 625.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 20.0                           | BEDROCK          |                         |
| MCW 75            | --                   | 345.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | --                             | 112TILL TILL     | Clay, hardpan           |
|                   |                      |                      |                             | 30.0                           | BEDROCK          |                         |
| MCW 76            | --                   | 285.0                | --                          | 0.0                            | 112TILL TILL     |                         |
|                   |                      |                      |                             | 9.0                            | BEDROCK          |                         |
| MCW 77            | --                   | 315.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 30.0                           | BEDROCK          |                         |
| MCW 78            | --                   | 180.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 45.0                           | BEDROCK          |                         |
| MCW 79            | --                   | 720.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 32.0                           | BEDROCK          |                         |
| MCW 80            | --                   | 675.0                | --                          | 0.0                            | 110SDMN CLAY     |                         |
|                   |                      |                      |                             | 30.0                           | BEDROCK          |                         |
| MCW 81            | --                   | 340.0                | --                          | 0.0                            | 110SDMN SAND     |                         |
|                   |                      |                      |                             | 5.0                            | BEDROCK          |                         |
| MCW 82            | --                   | 605.0                | --                          | 0.0                            | 110SDMN SDGL     |                         |
|                   |                      |                      |                             | 33.0                           | BEDROCK          |                         |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                         |                             |                                |              |                 |                         |

Merrimack County

Warner--Continued

|        |    |       |    |      |       |                    |              |  |
|--------|----|-------|----|------|-------|--------------------|--------------|--|
| MCW 83 | -- | 405.0 | -- | 0.0  | 10.0  | 110SDMN<br>BEDROCK | SAND<br>ROCK |  |
| MCW 84 | -- | 145.0 | -- | 0.0  | 2.0   | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |
| MCW 85 | -- | 625.0 | -- | 0.0  | 10.0  | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |
| MCW 86 | -- | 272.0 | -- | 87.0 | --    | BEDROCK            | ROCK         |  |
| MCW 87 | -- | 610.0 | -- | 0.0  | --    | 112TILL<br>110SDMN | TILL<br>CLAY |  |
| MCW 88 | -- | 210.0 | -- | 0.0  | 12.0  | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |
| MCW 89 | -- | 120.0 | -- | 0.0  | 18.0  | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |
| MCW 90 | -- | 310.0 | -- | 0.0  | 2.0   | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |
| MCW 91 | -- | 126.0 | -- | 0.0  | 124.0 | 110SDMN<br>110SDMN | SAND<br>SDGL |  |
| MCW 92 | -- | 428.0 | -- | 0.0  | 10.0  | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |
| MCW 93 | -- | 302.0 | -- | 0.0  | 9.0   | 112TILL<br>BEDROCK | TILL<br>ROCK |  |
| MCW 94 | -- | 255.0 | -- | 0.0  | 11.0  | 112TILL<br>BEDROCK | TILL<br>ROCK |  |
| MCW 96 | -- | 240.0 | -- | 0.0  | 32.0  | 110SDMN<br>BEDROCK | SDGL<br>ROCK |  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|                   |                      |                      |                         |                             |                                |              |                 |                         |

Merrimack County

Warner--Continued

|        |      |       |    |      |      |                    |                      |                                       |
|--------|------|-------|----|------|------|--------------------|----------------------|---------------------------------------|
| MCW 97 | --   | 280.0 | -- | 0.0  | 22.0 | 110SDMN<br>BEDROCK | SAND<br>ROCK         |                                       |
| MCW 98 | --   | 280.0 | -- | 0.0  | --   | 110SDMN<br>BEDROCK | SAND<br>SDGL<br>ROCK |                                       |
| MCW 99 | --   | 320.0 | -- | 0.0  | 21.0 | 110SDMN<br>BEDROCK | SDGL<br>ROCK         |                                       |
| WHB 1  | 76.5 | --    | -- | 0.0  | 4.2  | 112SKFD<br>112SKFD | SDGL<br>SAND         |                                       |
|        |      |       |    | 4.2  | 27.2 | 112SKFD<br>112SKFD | SAND<br>SAND         | medium, little gravel                 |
|        |      |       |    | 52.6 | 59.0 | 112SKFD<br>112SKFD | SAND<br>SDGL         | Coarse                                |
| WHB 2  | 51.2 | --    | -- | 0.0  | 1.2  | 112SKFD<br>BEDROCK | SDGL<br>ROCK         | Fine-course, and cobbles              |
| WHB 3  | 37.2 | --    | -- | 0.0  | 17.2 | 112SKFD<br>BEDROCK | SAND<br>ROCK         | Fine-course, some gravel, little silt |
| WHB 4  | 31.6 | --    | -- | 0.0  | 0.5  | 110SOIL<br>112SKFD | SOIL<br>SAND         | Fine-medium, little silt              |
|        |      |       |    | 2.5  | 6.8  | 112SKFD<br>BEDROCK | SDST<br>ROCK         | Fine, with boulders                   |
| WHB 5  | 57.2 | --    | -- | 0.0  | 0.5  | 110SOIL<br>112SKFD | SOIL<br>SAND         | Fine-course, little silt and gravel   |
|        |      |       |    | 7.2  | --   | BEDROCK            | ROCK                 |                                       |
| WHB 7  | 99.0 | --    | -- | 0.0  | 25.0 | 112SKFD<br>112SKFD | SAND<br>CLAY         | Fine to coarse<br>Gray                |
|        |      |       |    | 25.0 | 93.0 | 112SKFD<br>112TILL | CLAY<br>TILL         |                                       |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|-------------------|----------------------|------------------------------|-----------------------------|--------------------------------|-----------------|-------------------------|
| WHW 1             | --                   | 220.0                        | --                          | 161.0                          | --              | BEDROCK ROCK --         |
| WHW 2             | --                   | 325.0                        | --                          | 140.0                          | --              | BEDROCK ROCK --         |
| WHW 3             | --                   | 130.0                        | --                          | 32.0                           | --              | BEDROCK ROCK --         |
| WHW 4             | --                   | 109.0                        | --                          | 6.0                            | --              | BEDROCK ROCK --         |
| WHW 5             | --                   | 100.0                        | --                          | 2.0                            | --              | BEDROCK ROCK --         |
| WHW 6             | --                   | 195.0                        | --                          | 48.0                           | --              | BEDROCK ROCK --         |
| WHW 7             | --                   | 215.0                        | --                          | 60.0                           | --              | BEDROCK ROCK --         |
| WHW 9             | 53.0                 | 25.0                         | 53.0                        | 0.0                            | 112SRFD         | SAND Medium to coarse   |
|                   |                      |                              |                             | 18.0                           | 112SRFD         | COBB                    |
|                   |                      |                              |                             | 20.0                           | 112SRFD         | SDGL                    |
|                   |                      |                              |                             | 30.0                           | 112SRFD         | CLAY                    |
|                   |                      |                              |                             | 44.0                           | --              | 112TILL TILL            |
| WHW 10            | --                   | 130.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 50.0                           | --              | BEDROCK ROCK            |
| WHW 11            | --                   | 164.0                        | --                          | 0.0                            | 110SDMN         | SAND                    |
|                   |                      |                              |                             | 61.0                           | --              | BEDROCK ROCK            |
| WHW 12            | --                   | 200.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 14.0                           | --              | BEDROCK ROCK            |
| WHW 13            | --                   | 147.0                        | --                          | 37.0                           | --              | BEDROCK ROCK            |
| WHW 14            | --                   | 185.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 8.0                            | --              | BEDROCK ROCK            |
| WHW 15            | --                   | 303.0                        | --                          | 25.0                           | --              | BEDROCK ROCK            |
| WHW 16            | --                   | 12.0                         | --                          | 0.0                            | --              | 110SDMN SAND            |

Merrimack County

Webster--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well refusal (feet) | Depth to top of unit (feet) | Depth to bottom of unit (feet) | Lithologic code | Description of material |
|-------------------|----------------------|------------------------------|-----------------------------|--------------------------------|-----------------|-------------------------|
| WHW 17            | --                   | 202.0                        | --                          | 100.0                          | --              | BEDROCK ROCK            |
| WHW 18            | --                   | 240.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 2.0                            | --              | BEDROCK ROCK            |
| WHW 19            | --                   | 140.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 35.0                           | --              | BEDROCK ROCK            |
| WHW 20            | --                   | 375.0                        | --                          | 78.0                           | --              | BEDROCK ROCK            |
| WHW 21            | --                   | 253.0                        | --                          | 148.0                          | --              | BEDROCK ROCK            |
| WHW 22            | --                   | 150.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 28.0                           | --              | BEDROCK ROCK            |
| WHW 23            | --                   | 500.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 90.0                           | --              | BEDROCK ROCK            |
| WHW 24            | --                   | 143.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 11.0                           | --              | BEDROCK ROCK            |
| WHW 25            | --                   | 158.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 60.0                           | --              | BEDROCK ROCK            |
| WHW 26            | --                   | 204.0                        | --                          | 0.0                            | 110SDMN         | SDGL                    |
|                   |                      |                              |                             | 10.0                           | --              | BEDROCK ROCK            |
| WHW 27            | --                   | 282.0                        | --                          | 0.0                            | 110SDMN         | SDGL                    |
|                   |                      |                              |                             | 73.0                           | --              | BEDROCK ROCK            |
| WHW 28            | --                   | 130.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 6.0                            | --              | BEDROCK ROCK            |
| WHW 29            | --                   | 185.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 14.0                           | --              | BEDROCK ROCK            |
| WHW 30            | --                   | 140.0                        | --                          | 0.0                            | 112TILL         | TILL                    |
|                   |                      |                              |                             | 17.0                           | --              | BEDROCK ROCK            |

Merrimack County

Webster--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Merrimack County

Webster--Continued

|        |    |       |    |       |      |         |      |
|--------|----|-------|----|-------|------|---------|------|
| WHW 31 | -- | 365.0 | -- | 30.0  | --   | BEDROCK | ROCK |
| WHW 32 | -- | 205.0 | -- | 0.0   | 10.0 | 110SDMN | SAND |
|        |    |       |    | 10.0  | 90.0 | 112TILL | TILL |
|        |    |       |    | 102.0 | 90.0 | 110SDMN | CLAY |
|        |    |       |    | 102.0 | --   | BEDROCK | ROCK |
| WHW 33 | -- | 550.0 | -- | 0.0   | 20.0 | 112TILL | TILL |
|        |    |       |    | 20.0  | --   | BEDROCK | ROCK |
| WHW 34 | -- | 515.0 | -- | 0.0   | 6.0  | 110SDMN | SAND |
|        |    |       |    | 6.0   | --   | BEDROCK | ROCK |
| WHW 35 | -- | 235.0 | -- | 0.0   | 50.0 | 110SDMN | CLAY |
|        |    |       |    | 50.0  | --   | BEDROCK | ROCK |
| WHW 36 | -- | 175.0 | -- | 0.0   | 18.0 | 112TILL | TILL |
|        |    |       |    | 18.0  | --   | BEDROCK | ROCK |
| WHW 37 | -- | 200.0 | -- | 0.0   | 1.5  | 112TILL | TILL |
|        |    |       |    | 1.5   | --   | BEDROCK | ROCK |
| WHW 38 | -- | 65.0  | -- | 0.0   | --   | 110SDMN | CLAY |
|        |    |       |    | --    | --   | 112TILL | TILL |
| WHW 39 | -- | 200.0 | -- | 0.0   | 19.0 | 110SDMN | CLAY |
|        |    |       |    | 19.0  | --   | BEDROCK | ROCK |
| WHW 40 | -- | 240.0 | -- | 0.0   | 28.0 | 110SDMN | SAND |
|        |    |       |    | 28.0  | 32.0 | 110SDMN | CLAY |
|        |    |       |    | 32.0  | --   | BEDROCK | ROCK |
| WHW 41 | -- | 180.0 | -- | 70.0  | --   | BEDROCK | ROCK |
| WHW 42 | -- | 650.0 | -- | 0.0   | 4.0  | 110SDMN | SAND |
|        |    |       |    | 4.0   | --   | BEDROCK | ROCK |

B-164

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal top (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code | Description of material |
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|
|-------------------|----------------------|----------------------|-----------------------------|--------------------------------|--------------|-----------------|-------------------------|

Merrimack County

Webster--Continued

|        |      |       |      |       |       |         |   |
|--------|------|-------|------|-------|-------|---------|---|
| WHW 43 | --   | 350.0 | --   | 0.0   | 9.0   | 110SDMN | SDGL  |
|        |      |       |      | 9.0   | --    | BEDROCK | ROCK  |
| WHW 44 | --   | 474.0 | --   | 0.0   | 12.0  | 110SDMN | SAND  |
|        |      |       |      | 12.0  | --    | BEDROCK | ROCK  |
| WHW 45 | --   | 285.0 | --   | 0.0   | 6.0   | 110SDMN | SDGL  |
|        |      |       |      | 6.0   | --    | BEDROCK | ROCK  |
| WHW 46 | --   | 305.0 | --   | 0.0   | 9.0   | 110SDMN | SAND  |
|        |      |       |      | 9.0   | --    | BEDROCK | ROCK  |
| WHW 47 | --   | 155.0 | --   | 0.0   | 34.0  | 110SDMN | CLAY  |
|        |      |       |      | 34.0  | --    | BEDROCK | ROCK  |
| WHW 49 | 86.0 | 39.0  | 86.0 | 0.0   | 63.0  | 112SRFD | SAND  |
|        |      |       |      |       |       |         | Very fine to medium sand, coarse to fine gravel |
|        |      |       |      | 63.0  | 79.0  | 112SRFD | STCL  |
|        |      |       |      | 79.0  | 86.0  | 112TILL | TILL  |
|        |      |       |      | 86.0  | --    | BEDROCK | ROCK  |
| WHW 50 | --   | 305.0 | --   | 0.0   | 148.0 | 110SDMN | SAND  |
|        |      |       |      | 148.0 | --    | BEDROCK | ROCK  |
| WHW 51 | --   | 300.0 | --   | 0.0   | --    | 110SDMN | SAND  |
|        |      |       |      | --    | --    | 112TILL | TILL  |
|        |      |       |      | 125.0 | --    | BEDROCK | ROCK  |
| WHW 52 | --   | 195.0 | --   | 0.0   | 60.0  | 110SDMN | SAND  |
|        |      |       |      | 60.0  | --    | BEDROCK | ROCK  |
| WHW 53 | --   | 210.0 | --   | 0.0   | 31.0  | 110SDMN | SDGL  |
|        |      |       |      | 31.0  | --    | BEDROCK | ROCK  |

B-165

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|------------------|-------------------------|
| Merrimack County  |                      |                      |                         |                                |              |                  |                         |
| Wilmington        |                      |                      |                         |                                |              |                  |                         |
| WMB 1             | 26.5                 | --                   | 77.7                    | 0.0                            | 7.0          | 110SPMN MUCK     | MUCK                    |
|                   |                      |                      |                         | 7.0                            | 9.1          | 110SPMN SAND     | MUCK                    |
|                   |                      |                      |                         | 9.1                            | 11.7         | 112SRFD SAND     |                         |
|                   |                      |                      |                         | 11.7                           | 23.1         | 112SRFD SILT     |                         |
|                   |                      |                      |                         | 23.1                           | --           | 112SRFD SAND     | Boulders                |
| WMB 2             | --                   | 191.0                | --                      | 98.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 3             | 209.0                | 25.0                 | --                      | 25.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 4             | --                   | 101.0                | --                      | 10.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 5             | --                   | 96.0                 | --                      | 12.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 6             | --                   | 483.0                | --                      | 45.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 7             | --                   | 118.0                | --                      | 35.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 8             | --                   | 95.0                 | --                      | 18.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 9             | --                   | 271.0                | --                      | 37.0                           | --           | BEDROCK          | ROCK --                 |
| WMB 10            | --                   | 204.0                | --                      | 0.0                            | 7.0          | 112TILL TILL     |                         |
|                   |                      |                      |                         | 7.0                            | --           | BEDROCK          | ROCK                    |
| WMB 11            | --                   | 191.0                | --                      | 0.0                            | 4.5          | 110SPMN SAND     |                         |
|                   |                      |                      |                         | 4.5                            | --           | BEDROCK          | ROCK                    |
| WMB 12            | --                   | 207.5                | --                      | 0.0                            | --           | 112TILL TILL     |                         |
|                   |                      |                      |                         | --                             | --           | 110SPMN CLAY     |                         |
|                   |                      |                      |                         | --                             | --           | 110SPMN SAND     |                         |
|                   |                      |                      |                         | 128.0                          | --           | BEDROCK          | ROCK                    |
| WMB 13            | --                   | 356.0                | --                      | 14.0                           | --           | BEDROCK          | ROCK                    |
| WMB 14            | --                   | 225.0                | --                      | 0.3                            | --           | BEDROCK          | ROCK                    |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|------------------|-------------------------|
| Merrimack County  |                      |                      |                         |                                |              |                  |                         |
| Wilmington        |                      |                      |                         |                                |              |                  |                         |
| WMB 15            | --                   | 280.0                | --                      | 0.0                            | 33.0         | 112TILL TILL     |                         |
|                   |                      |                      |                         | 33.0                           | --           | BEDROCK          | ROCK                    |
| WMB 16            | --                   | 245.0                | --                      | 0.0                            | 42.0         | 110SPMN SAND     |                         |
|                   |                      |                      |                         | 42.0                           | --           | BEDROCK          | ROCK                    |
| WMB 17            | --                   | 230.0                | --                      | 0.0                            | 8.0          | 112TILL TILL     |                         |
|                   |                      |                      |                         | 8.0                            | --           | BEDROCK          | ROCK                    |
| WMB 18            | --                   | 202.0                | --                      | 0.0                            | 6.5          | 112TILL TILL     |                         |
|                   |                      |                      |                         | 6.5                            | --           | BEDROCK          | ROCK                    |
| WMB 19            | --                   | 170.0                | --                      | 0.0                            | 1.0          | 110SPMN SDGL     |                         |
|                   |                      |                      |                         | 1.0                            | --           | BEDROCK          | ROCK                    |
| WMB 20            | --                   | 83.0                 | --                      | 0.0                            | 10.0         | 110SPMN SDGL     |                         |
|                   |                      |                      |                         | 10.0                           | 29.0         | 110SPMN SAND     |                         |
|                   |                      |                      |                         | 29.0                           | 60.0         | 110SPMN CLAY     |                         |
|                   |                      |                      |                         | 60.0                           | --           | 110SPMN SDGL     |                         |
| WMB 21            | --                   | 310.0                | --                      | 0.0                            | 100.0        | 112SRFD STCL     |                         |
|                   |                      |                      |                         | 100.0                          | --           | BEDROCK          | ROCK                    |
| WMB 22            | --                   | 345.0                | --                      | 0.0                            | 55.0         | 110SPMN SAND     |                         |
|                   |                      |                      |                         | 55.0                           | --           | BEDROCK          | ROCK                    |
| WMB 23            | --                   | 365.0                | --                      | 0.0                            | --           | 110SPMN SDGL     |                         |
|                   |                      |                      |                         | --                             | --           | 110SPMN CLAY     |                         |
|                   |                      |                      |                         | --                             | --           | 110SPMN SDGL     |                         |
|                   |                      |                      |                         | 92.0                           | --           | BEDROCK          | ROCK                    |
| WMB 24            | --                   | 445.0                | --                      | 0.0                            | 23.0         | 110SPMN SDGL     |                         |
|                   |                      |                      |                         | 23.0                           | --           | BEDROCK          | ROCK                    |
| WMB 25            | --                   | 285.0                | --                      | 0.0                            | 71.0         | 112TILL TILL     |                         |
|                   |                      |                      |                         | 71.0                           | --           | BEDROCK          | ROCK                    |
| WMB 26            | --                   | 365.0                | --                      | 100.0                          | --           | BEDROCK          | ROCK                    |



Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material                      |
|-------------------|----------------------|----------------------|-------------------------|--------------------------------|------------------|--|
| WNY 27            | --                   | 465.0                | --                      | 0.0                            | 140.0            | 112TILL TILL<br>BEDROCK ROCK                 |
| WNY 28            | --                   | 240.0                | --                      | 0.0                            | 5.0              | 112TILL TILL<br>BEDROCK ROCK                 |
| WNY 29            | --                   | 505.0                | --                      | 0.0                            | 8.0              | 110SDMN SAND<br>BEDROCK ROCK                 |
| WNY 30            | --                   | 252.0                | --                      | 0.0                            | 14.0             | 110SDMN SDGL<br>BEDROCK ROCK                 |
| WNY 31            | --                   | 305.0                | --                      | 0.0                            | 18.0             | 110SDMN SAND<br>BEDROCK ROCK                 |
| WNY 32            | --                   | 205.0                | --                      | 0.0                            | 28.0             | 110SDMN SDGL<br>BEDROCK ROCK                 |
| WNY 33            | --                   | 475.0                | --                      | 0.0                            | 5.0              | 110SDMN SAND<br>112TILL TILL                 |
| WNY 34            | --                   | 300.0                | --                      | 0.0                            | 8.0              | 110SDMN SDGL<br>BEDROCK ROCK                 |
| WNY 35            | --                   | 365.0                | --                      | 0.0                            | 24.0             | 110SDMN CLAY<br>BEDROCK ROCK                 |
| WNY 36            | --                   | 265.0                | --                      | 0.0                            | 219.0            | 110SDMN SDGL<br>BEDROCK ROCK                 |
| WNY 37            | --                   | 285.0                | --                      | 0.0                            | 23.0             | 110SDMN CLAY<br>BEDROCK ROCK                 |
| WNY 38            | --                   | 485.0                | --                      | 0.0                            | --               | 112TILL TILL<br>110SDMN CLAY<br>BEDROCK ROCK |

Merrimack County

Wilmot--Continued

B-168

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material      |
|-------------------|----------------------|----------------------|-------------------------|--------------------------------|------------------|------------------------------|
| WNY 39            | --                   | 385.0                | --                      | 0.0                            | 26.0             | 110SDMN SAND<br>BEDROCK ROCK |
| WNY 40            | --                   | 365.0                | --                      | 0.0                            | 2.0              | 110SDMN SAND<br>BEDROCK ROCK |
| WNY 41            | --                   | 295.0                | --                      | 0.0                            | 28.0             | 110SDMN SDGL<br>BEDROCK ROCK |
| WNY 42            | --                   | 352.0                | --                      | 0.0                            | 8.0              | 112TILL TILL<br>BEDROCK ROCK |
| WNY 43            | --                   | 425.0                | --                      | 0.0                            | 8.0              | 112TILL TILL<br>BEDROCK ROCK |
| WNY 44            | --                   | 460.0                | --                      | 0.0                            | 87.0             | 112TILL TILL<br>BEDROCK ROCK |
| WNY 45            | --                   | 240.0                | --                      | 0.0                            | 12.0             | 112TILL TILL<br>BEDROCK ROCK |
| WNY 46            | --                   | 300.0                | --                      | 0.0                            | 75.0             | 110SDMN CLAY<br>BEDROCK ROCK |
| WNY 47            | --                   | 365.0                | --                      | 0.0                            | 4.0              | 110SDMN SDGL<br>BEDROCK ROCK |
| WNY 48            | --                   | 365.0                | --                      | 0.0                            | 7.0              | 112TILL TILL<br>BEDROCK ROCK |
| WNY 49            | --                   | 405.0                | --                      | 0.0                            | 20.0             | 112TILL TILL<br>BEDROCK ROCK |
| WNY 50            | --                   | 425.0                | --                      | 0.0                            | 80.0             | 110SDMN SDGL<br>BEDROCK ROCK |
| WNY 51            | --                   | 340.0                | --                      | 0.0                            | 30.0             | 110SDMN SAND<br>BEDROCK ROCK |

Merrimack County

Wilmot--Continued

B-169

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|---------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                         |                     |                                |                  |                         |
| WEW 5             | --                   | 160.0                | --                      | 10.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 7             | --                   | 80.0                 | --                      | 14.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 8             | --                   | 160.0                | --                      | 103.0               | --                             | BEDROCK          | ROCK --                 |
| WEW 9             | --                   | 116.0                | --                      | 65.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 10            | --                   | 194.0                | --                      | 75.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 11            | --                   | 216.0                | --                      | 16.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 12            | --                   | 310.0                | --                      | 40.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 13            | --                   | 176.0                | --                      | 76.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 16            | --                   | 200.0                | --                      | 5.0                 | --                             | BEDROCK          | ROCK --                 |
| WEW 18            | --                   | 125.0                | --                      | 77.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 19            | --                   | 380.0                | --                      | 48.0                | --                             | BEDROCK          | ROCK --                 |
| WEW 20            | --                   | 197.0                | --                      | 5.0                 | --                             | BEDROCK          | ROCK --                 |
| WEW 21            | --                   | 110.0                | --                      | 0.0                 | 40.0                           | 110SDMN          | ROCK                    |
| WEW 22            | --                   | 220.0                | --                      | 1.0                 | --                             | BEDROCK          | ROCK                    |
| WEW 24            | --                   | 108.0                | --                      | 0.0                 | 6.0                            | 112TILL          | TILL                    |
| WEW 25            | --                   | 175.0                | --                      | 0.0                 | 90.0                           | 112TILL          | TILL                    |
| WEW 26            | --                   | 118.0                | --                      | 8.0                 | --                             | BEDROCK          | ROCK                    |

Sullivan County

Washington

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Litho-logic code | Description of material |
|-------------------|----------------------|----------------------|-------------------------|---------------------|--------------------------------|------------------|-------------------------|
|                   |                      |                      |                         |                     |                                |                  |                         |
| WEW 27            | --                   | 152.0                | --                      | 0.0                 | --                             | 112TILL          | TILL                    |
| WEW 30            | --                   | 205.0                | --                      | 0.0                 | 3.0                            | 110SDMN          | SDGL                    |
| WEW 32            | --                   | 149.0                | --                      | 4.0                 | --                             | BEDROCK          | ROCK                    |
| WEW 38            | --                   | 205.0                | --                      | 0.0                 | --                             | 110SDMN          | SAND                    |
| WEW 39            | --                   | 230.0                | --                      | 0.0                 | 30.0                           | 112TILL          | TILL                    |
| WEW 40            | --                   | 213.0                | --                      | 0.0                 | 3.0                            | 110SDMN          | SAND                    |
| WEW 41            | --                   | 150.0                | --                      | 0.0                 | 12.0                           | 112TILL          | TILL                    |
| WEW 42            | --                   | 170.0                | --                      | 0.0                 | 9.0                            | 110SDMN          | SDGL                    |
| WEW 45            | --                   | 170.0                | --                      | 0.0                 | 18.0                           | 110SDMN          | CLAY                    |
| WEW 47            | --                   | 465.0                | --                      | 0.0                 | 25.0                           | 112TILL          | TILL                    |
| WEW 48            | --                   | 144.0                | --                      | 28.0                | --                             | BEDROCK          | ROCK                    |
| WEW 49            | --                   | 120.0                | --                      | 0.0                 | 30.0                           | 110SDMN          | CLAY                    |
| WEW 57            | --                   | 100.0                | --                      | 0.0                 | 3.0                            | 110SDMN          | SDGL                    |

Sullivan County

Washington--Continued

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to bottom of unit (feet) | Aquifer code | Lithologic code                                     | Description of material              | Depth         |                  |  |
|-----------------------|----------------------|----------------------|-------------------------|--------------------------------|--------------|---|--------------------------------------|---------------|------------------|--|
|                       |                      |                      |                         |                                |              |   |                                      | to top (feet) | to bottom (feet) |  |
| Sullivan County       |                      |                      |                         |                                |              |   |                                      |               |                  |  |
| Washington--Continued |                      |                      |                         |                                |              |   |                                      |               |                  |  |
| NEW 58                | --                   | 205.0                | --                      | 0.0                            | 10.0         | 110SDMN<br>BEDROCK                                  | SOGL<br>ROCK                         | 0.0           | 10.0             |  |
| NEW 59                | --                   | 395.0                | --                      | 0.0                            | --           | 110SDMN<br>110SDMN<br>112TILL<br>110SDMN<br>BEDROCK | SOGL<br>CLAY<br>TILL<br>SOGL<br>ROCK | 0.0           | --               |  |
| NEW 60                | --                   | 100.0                | --                      | 0.0                            | --           | 110SDMN<br>112TILL<br>110SDMN<br>BEDROCK            | SOGL<br>TILL<br>CLAY<br>ROCK         | 0.0           | --               |  |
| NEW 62                | --                   | 205.0                | --                      | 0.0                            | 30.0         | 110SDMN<br>BEDROCK                                  | SAND<br>ROCK                         | 0.0           | 30.0             |  |
| NEW 64                | --                   | 145.0                | --                      | 0.0                            | 17.0         | 112TILL<br>BEDROCK                                  | TILL<br>ROCK                         | 0.0           | 17.0             |  |
| NEW 65                | --                   | 300.0                | --                      | 0.0                            | 19.0         | 110SDMN<br>BEDROCK                                  | SOGL<br>ROCK                         | 0.0           | 19.0             |  |
| NEW 66                | --                   | 300.0                | --                      | 0.0                            | 2.0          | 110SDMN<br>BEDROCK                                  | SOGL<br>ROCK                         | 0.0           | 2.0              |  |
| NEW 67                | --                   | 200.0                | --                      | 0.0                            | --           | 112TILL<br>110SDMN<br>BEDROCK                       | TILL<br>CLAY<br>ROCK                 | 0.0           | --               |  |
| NEW 68                | --                   | 305.0                | --                      | 0.0                            | --           | 110SDMN<br>110SDMN<br>BEDROCK                       | SOGL<br>CLAY<br>ROCK                 | 0.0           | --               |  |
| NEW 69                | --                   | 150.0                | --                      | 0.0                            | --           | 110SDMN<br>112TILL<br>110SDMN<br>BEDROCK            | SOGL<br>TILL<br>CLAY<br>ROCK         | 0.0           | --               |  |

Appendix B.--Stratigraphic logs of selected wells and borings--Continued

| Local site number     | Depth drilled (feet) | Depth of well (feet) | Depth to refusal (feet) | Depth to top (feet) | Depth to bottom of unit (feet) | Aquifer code                  | Lithologic code      | Description of material | Depth         |                       |
|-----------------------|----------------------|----------------------|-------------------------|---------------------|--------------------------------|-------------------------------|----------------------|-------------------------|---------------|-----------------------|
|                       |                      |                      |                         |                     |                                |                               |                      |                         | to top (feet) | to bottom (feet)      |
| Sullivan County       |                      |                      |                         |                     |                                |                               |                      |                         |               |                       |
| Washington--Continued |                      |                      |                         |                     |                                |                               |                      |                         |               |                       |
| NEW 70                | --                   | 275.0                | --                      | 0.0                 | 1.0                            | 110SDMN<br>BEDROCK            | CLAY<br>ROCK         | 0.0                     | 1.0           |                       |
| NEW 71                | --                   | 300.0                | --                      | 0.0                 | 15.0                           | 110SDMN<br>BEDROCK            | CLAY<br>ROCK         | 0.0                     | 15.0          |                       |
| NEW 72                | --                   | 162.0                | --                      | 0.0                 | --                             | 112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK | 0.0                     | --            |                       |
| NEW 73                | --                   | 225.0                | --                      | 5.0                 | --                             | BEDROCK                       | ROCK                 | 5.0                     | --            |                       |
| NEW 74                | --                   | 300.0                | --                      | 0.0                 | --                             | 112TILL<br>110SDMN<br>BEDROCK | TILL<br>CLAY<br>ROCK | 0.0                     | --            |                       |
| NEW 75                | --                   | 176.0                | --                      | 0.0                 | 35.0                           | 110SDMN<br>BEDROCK            | SAND<br>ROCK         | 0.0                     | 35.0          |                       |
| NEW 76                | --                   | 10.0                 | --                      | 0.0                 | --                             | 112TILL<br>110SDMN            | TILL<br>SOGL         | 0.0                     | --            | Clay, hardpan         |
| NEW 77                | --                   | 12.0                 | --                      | 0.0                 | --                             | 112TILL                       | TILL                 | 0.0                     | --            |                       |
| NEW 78                | --                   | 12.0                 | --                      | 0.0                 | 2.0                            | 110SDMN                       | SGVC                 | 0.0                     | 2.0           | Gravel, clay, hardpan |
| NEW 79                | --                   | 275.0                | --                      | 0.0                 | 9.0                            | 110SDMN<br>BEDROCK            | SOGL<br>ROCK         | 0.0                     | 9.0           |                       |
| NEW 87                | --                   | 320.0                | --                      | 0.0                 | 3.0                            | 112TILL<br>BEDROCK            | TILL<br>ROCK         | 0.0                     | 3.0           |                       |
| NEW 89                | --                   | 120.0                | --                      | 0.0                 | 100.0                          | 110SDMN<br>BEDROCK            | CLAY<br>ROCK         | 0.0                     | 100.0         |                       |

## **Appendix C**

**Chemical analyses of ground-water samples from U.S. Geological Survey observation wells  
in the Contoocook River basin**

Appendix C.--Chemical analyses of ground-water samples from U.S. Geological Survey  
observation wells in the Contoocook River basin

[°C, degrees Celsius; mm, millimeters; Hg, mercury; µS/cm, microsiemens per centimeter at 25 degrees Celsius;  
mg/L, milligrams per liter; µg/L, micrograms per liter; NGVD, National Geodetic Vertical Datum]

| Station name | Date     | Time | Temperature,<br>water<br>(°C) | Barometric<br>pressure<br>(mm of Hg) | Specific<br>conductance<br>(µS/cm) | Oxygen,<br>dissolved<br>(µg/L) | pH<br>field<br>(standard units) | pH<br>lab<br>(standard units) | Solids<br>residue at<br>180°C<br>dissolved<br>(mg/L) |
|--------------|----------|------|-------------------------------|--------------------------------------|------------------------------------|--------------------------------|---------------------------------|-------------------------------|--|
| ANW 19       | 09-25-89 | 1430 | 10.4                          | 775                                  | 138                                | 3.7                            | 6.1                             | 6.5                           | 82.0   |
| DEW 59       | 10-10-89 | 1400 | 8.7                           | 774                                  | 23                                 | 9.5                            | 5.9                             | 6.3                           | 16.0   |
| DKW 103      | 10-10-89 | 1600 | 10.9                          | 774                                  | 25                                 | 8.8                            | 6.3                             | 6.9                           | 27.0   |
| GSH 30       | 10-13-89 | 1620 | 9.5                           | 736                                  | 59                                 | 9.1                            | 5.4                             | 6.2                           | 27.0   |
| GSH 75       | 10-13-89 | 1140 | 9.2                           | 735                                  | 125                                | 8.8                            | 5.9                             | 6.7                           | 71.0   |
| HMW 167      | 10-10-89 | 1300 | 8.6                           | 774                                  | 237                                | 3.4                            | 6.0                             | 6.3                           | 151.0  |
| RGW 107      | 10-04-89 | 1100 | 7.9                           | --                                   | 158                                | --                             | 5.4                             | 6.9                           | 72.0   |
| NDW 78       | 10-03-89 | 1520 | 9.9                           | --                                   | 211                                | 2.5                            | 5.5                             | 6.0                           | 123.0  |
| SIW 10       | 10-13-89 | 1500 | --                            | 735                                  | 57                                 | --                             | 5.6                             | 6.3                           | 26.0   |
| SYW 16       | 10-03-89 | 1330 | 8.2                           | --                                   | 44                                 | 8.2                            | 5.5                             | 5.8                           | 27.0   |
| WHW 49       | 09-25-89 | 1200 | 9.9                           | 774                                  | 56                                 | 1.5                            | 5.5                             | 5.7                           | 25.0   |

Appendix C--Chemical analyses of ground-water samples from U.S. Geological Survey  
 observation wells in the Contoocook River basin--Continued

| Station name | Date     | Alka-<br>linity<br>field<br>(mg/L<br>as<br>CaCO <sub>3</sub> ) | Nitrogen<br>ammonia,<br>dis-<br>solved<br>(mg/L<br>as N) | Nitrogen<br>nitrite,<br>dis-<br>solved<br>(mg/L<br>as N) | Nitrogen<br>ammonia +<br>organic,<br>dissolved<br>(mg/L<br>as N) | Nitrogen<br>NO <sub>2</sub> + NO <sub>3</sub> ,<br>dis-<br>solved<br>(mg/L<br>as N) | Phosphorus,<br>dis-<br>solved<br>(mg/L<br>as P) | Carbon<br>organic,<br>dis-<br>solved<br>(mg/L<br>as C) | Calcium,<br>dis-<br>solved<br>(mg/L<br>as Ca) | Magnesium,<br>dis-<br>solved<br>(mg/L<br>as Mg) |
|--------------|----------|--|--|--|--|---|---|--|---|---|
| ANW 19       | 09-25-89 | 65.0   | <0.01  | <0.01  | <0.2   | 1.90  | <0.01   | 0.4  | 12.0  | 2.10  |
| DEW 59       | 10-10-89 | 7.0  | <.01   | <.01   | <.2  | <.10  | <.01  | .4   | 2.2   | .41   |
| DKW 103      | 10-10-89 | 6.0  | <.01   | <.01   | <.2  | .28   | <.01  | .4   | 1.8   | .51   |
| GSH 30       | 10-13-89 | 9.0  | <.01   | <.01   | .4   | 2.40  | <.01  | .4   | 6.5   | .92   |
| GSW 75       | 10-13-89 | 8.0  | <.01   | <.01   | <.2  | <.10  | <.01  | .3   | 2.4   | .35   |
| HMW 167      | 10-10-89 | 34.0   | <.01   | <.01   | .2   | .39   | <.01  | .4   | 18.0  | 3.70  |
| RGW 107      | 10-04-89 | 5.0  | <.01   | <.01   | .4   | <.10  | <.01  | .6   | 2.6   | .50   |
| NDW 78       | 10-03-89 | 30.0   | .26  | <.01   | .5   | <.10  | <.01  | 4.6  | 10.0  | 2.10  |
| SIW 10       | 10-13-89 | 14.0   | .01  | <.01   | <.2  | <.10  | <.01  | .7   | 5.1   | .87   |
| SYW 16       | 10-03-89 | 11.0   | <.01   | <.01   | .3   | <.10  | <.01  | .2   | 1.0   | .54   |
| WHW 49       | 09-25-89 | 20.0   | .01  | <.01   | <.2  | <.10  | <.01  | 1.0  | 3.4   | .56   |

Appendix C--Chemical analyses of ground-water samples from U.S. Geological Survey observation wells in the Contoocook River basin--Continued

| Station name | Date     | Sodium, dis- solved (mg/L as Na) | Potas- sium, dis- solved (mg/L as K) | Chlo- ride, dis- solved (mg/L as Cl) | Sul- fate, dis- solved (mg/L as SO <sub>4</sub> ) | Fluo- ride, dis- solved (mg/L as F) | Silica, dis- solved (mg/L as SiO <sub>2</sub> ) | Aluminum, dis- solved (μg/L as Al) | Arsenic, dis- solved (μg/L as As) | Barium, dis- solved (μg/L as Ba) | Beryl- lium, dis- solved (μg/L as Be) | Cadmium, dis- solved (μg/L as Cd) | Cobalt, dis- solved (μg/L as Co) |
|--------------|----------|----------------------------------|--------------------------------------|--------------------------------------|---|-------------------------------------|---|------------------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------------|----------------------------------|
| ANW 19       | 09-25-89 | 11.0                             | 3.9                                  | 12.0                                 | 9.0   | <0.10                               | 18.00   | 20.0                               | <1.0                              | 12.0                             | <0.5                                  | <1.0                              | <3.0                             |
| DEW 59       | 10-10-89 | 1.5                              | .7                                   | 1.0                                  | 4.0   | <.10                                | 10.00   | <10.0                              | <1.0                              | <2.0                             | <.5                                   | <1.0                              | <3.0                             |
| DKW 103      | 10-10-89 | 1.4                              | 1.5                                  | .5                                   | 5.0   | .10                                 | 12.00   | <10.0                              | <1.0                              | <2.0                             | <.5                                   | <1.0                              | <3.0                             |
| GSW 30       | 10-13-89 | 2.7                              | .9                                   | 1.8                                  | 7.0   | <.10                                | 11.00   | <10.0                              | <1.0                              | <2.0                             | <.5                                   | <1.0                              | <3.0                             |
| GSW 75       | 10-13-89 | 23.0                             | .8                                   | 30.0                                 | 6.0   | <.10                                | 10.00   | <10.0                              | <1.0                              | 2.0                              | <.5                                   | <1.0                              | <3.0                             |
| HMW 167      | 10-10-89 | 20.0                             | 2.0                                  | 31.0                                 | 26.0  | <.10                                | 17.00   | <10.0                              | <1.0                              | 12.0                             | <.5                                   | <1.0                              | <3.0                             |
| RGW 107      | 10-04-89 | 25.0                             | 1.0                                  | 43.0                                 | <1.0  | <.10                                | 9.10  | 30.0                               | <1.0                              | 22.0                             | <.5                                   | <1.0                              | <3.0                             |
| NDW 78       | 10-03-89 | 25.0                             | 6.4                                  | 46.0                                 | 5.0   | .10                                 | 7.30  | 90.0                               | 2.0                               | 74.0                             | <.5                                   | <1.0                              | 8.0                              |
| SIW 10       | 10-13-89 | 3.8                              | 1.3                                  | 6.1                                  | 3.0   | <.10                                | 16.00   | <10.0                              | <1.0                              | 3.0                              | <.5                                   | <1.0                              | <3.0                             |
| SYW 16       | 10-03-89 | 2.0                              | .8                                   | 3.6                                  | 3.0   | <.10                                | .16   | 20.0                               | <1.0                              | <2.0                             | 1.7                                   | <1.0                              | <3.0                             |
| WHW 49       | 09-25-89 | 4.0                              | .9                                   | 6.9                                  | 4.0   | <.10                                | 12.00   | 20.0                               | <1.0                              | 8.0                              | <0.5                                  | <1.0                              | <3.0                             |

Appendix C--Chemical analyses of ground-water samples from U.S. Geological Survey observation wells in the Contoocook River basin--Continued

| Station name | Date     | Copper, dissolved ( $\mu\text{g/L}$ as Cu) | Iron, total recoverable ( $\mu\text{g/L}$ as Fe) | Iron, dissolved ( $\mu\text{g/L}$ as Fe) | Lead, dissolved ( $\mu\text{g/L}$ as Pb) | Lithium, dissolved ( $\mu\text{g/L}$ as Li) | Manganese, dissolved ( $\mu\text{g/L}$ as Mn) | Molybdenum, dissolved ( $\mu\text{g/L}$ as Mo) | Nickel, dissolved ( $\mu\text{g/L}$ as Ni) | Strontium, dissolved ( $\mu\text{g/L}$ as Sr) | Vanadium, dissolved ( $\mu\text{g/L}$ as V) | Zinc, dissolved ( $\mu\text{g/L}$ as Zn) |
|--------------|----------|--|--|--|--|---|---|--|--|---|---|--|
| ANW 19       | 09-25-89 | <10.0                                      | 390.0  | 4.0                                      | <10.0                                    | <4.0  | 270.0   | <10.0  | 1.0  | 120.0   | <6.0  | 7.0                                      |
| DEW 59       | 10-10-89 | <10.0                                      | 40.0   | 5.0                                      | <10.0                                    | <4.0  | 67.0  | <10.0  | 1.0  | 14.0  | <6.0  | 3.0                                      |
| DKW 103      | 10-10-89 | <10.0                                      | 60.0   | 9.0                                      | <10.0                                    | <4.0  | 26.0  | <10.0  | 1.0  | 10.0  | <6.0  | <3.0                                     |
| GSW 30       | 10-13-89 | <10.0                                      | 20.0   | 11.0                                     | <10.0                                    | <4.0  | 11.0  | <10.0  | 1.0  | 31.0  | <6.0  | 5.0                                      |
| GSW 75       | 10-13-89 | <10.0                                      | 160.0  | 19.0                                     | <10.0                                    | <4.0  | 33.0  | <10.0  | <1.0                                       | 36.0  | <6.0  | 3.0                                      |
| HMW 167      | 10-10-89 | <10.0                                      | 40.0   | 9.0                                      | 20.0                                     | <4.0  | 3.0   | 20.0   | 1.0  | 120.0   | <6.0  | 6.0                                      |
| RGW 107      | 10-04-89 | <10.0                                      | 90.0   | 5.0                                      | <10.0                                    | <4.0  | 110.0   | <10.0  | <1.0                                       | 89.0  | <6.0  | <3.0                                     |
| NDW 78       | 10-03-89 | <10.0                                      | 3,900.0  | 3,600.0                                  | <10.0                                    | <4.0  | 280.0   | <10.0  | 2.0  | 76.0  | <6.0  | 23.0                                     |
| SIW 10       | 10-13-89 | <10.0                                      | 7,100.0  | 24.0                                     | <10.0                                    | <4.0  | 240.0   | <10.0  | 2.0  | 39.0  | <6.0  | 24.0                                     |
| SYW 16       | 10-03-89 | <10.0                                      | 50.0   | <3.0                                     | <10.0                                    | 30.0  | 2.0   | <10.0  | <1.0                                       | 14.0  | <6.0  | <3.0                                     |
| WHW 49       | 09-25-89 | <10.0                                      | 1,500.0  | 1,600.0                                  | <10.0                                    | <4.0  | 74.0  | <10.0  | 3.0  | 35.0  | <6.0  | 8.0                                      |



## **Appendix D**

**Chemical analyses of ground-water samples from municipal wells  
in the Contoocook River basin**

Appendix D.--Chemical analyses of ground-water samples from municipal wells in the Contoocook River basin

[USGS, U.S. Geological Survey;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter at 25 degrees Celsius;  $\text{mg}/\text{L}$ , milligrams per liter; --, no data;  $\mu\text{g}/\text{L}$ , micrograms per liter; <, less than]

| USGS station name | State of New Hampshire station name    | Date sampled | Specific conductance ( $\mu\text{S}/\text{cm}$ ) | pH (units) | Alkalinity ( $\text{mg}/\text{L}$ $\text{CaCO}_3$ ) | Nitrogen $\text{NO}_2 + \text{NO}_3$ | Total hardness ( $\text{mg}/\text{L}$ $\text{CaCO}_3$ ) | Hardness as $\text{CaCO}_3$ |
|-------------------|--|--------------|--|------------|---|--------------------------------------|---|-----------------------------|
| BNW-10            | Bennington Water Dept. - GRW1          | 08/29/84     | 57.0   | 6.4        | 14.0  | <0.2500                              | 12.00   | 10.00                       |
| HMW-12            | Cogswell Spring Water Works - GPW1     | 04/26/85     | 74.9   | 6.6        | 13.0  | .2600                                | 37.20   | 1.20                        |
| HMW-20            | Cogswell Spring Water Works - GPW2     | 04/26/85     | 59.5   | 6.4        | 7.5   | .3000                                | 16.40   | 1.20                        |
| HMW-21            | Cogswell Spring Water Works - GPW3     | 07/06/82     | 8.0  | 7.2        | --  | <.2500                               | 52.00   | --                          |
| DEW-67            | Johnson City MHP - Gravel 145 feet     | 04/27/82     | --   | 7.5        | 23.0  | <.2500                               | 16.00   | --                          |
| JBW-43            | Jaffrey Water Works - GPW1             | 07/24/86     | 137.0  | 7.0        | 12.0  | <.2500                               | 6.05  | 12.50                       |
| JBW-44            | Jaffrey Water Works - GPW2             | 05/04/84     | 43.1   | 5.9        | 9.0   | <.2500                               | 8.00  | 4.75                        |
| PCW-66            | Peterborough Water Works - GPW North   | 09/02/86     | 126.0  | 6.8        | 20.0  | .2900                                | 33.00   | 15.00                       |
| PCW-71            | Peterborough Water Works - GPW South   | 08/27/80     | --   | 6.6        | 18.0  | .3000                                | 50.00   | --                          |
| PCW-126           | Peterborough Water Works - GPW Sum St. | 09/02/86     | 170.0  | 9.7        | 41.0  | <.2500                               | 34.00   | 32.50                       |

Appendix D--Chemical analyses of ground-water samples from municipal wells in the Contoocook River basin--Continued

| USGS station name | State of New Hampshire station name    | Date sampled | Sodium (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Fluoride (µg/L) | Arsenic (µg/L) | Barium (µg/L) |
|-------------------|--|--------------|---------------|-----------------|----------------|-----------------|----------------|---------------|
| BNW-10            | Bennington Water Dept. - GRW1          | 08/29/84     | 3.0           | <10.0           | 5.00           | 0.09            | <5.0           | --            |
| HMW-12            | Cogswell Spring Water Works - GPW1     | 04/26/85     | 5.0           | 11.0            | 2.90           | <.10            | <5.0           | <500.0        |
| HMW-20            | Cogswell Spring Water Works - GPW2     | 04/26/85     | 4.0           | 10.0            | 2.60           | <.10            | <5.0           | <500.0        |
| HMW-21            | Cogswell Spring Water Works - GPW3     | 07/06/82     | 8.0           | 13.0            | --             | <.10            | <5.0           | <500.0        |
| DEW-67            | Johnson City MHP - Gravel 145 feet     | 04/27/82     | 6.0           | <10.0           | --             | .14             | <5.0           | <500.0        |
| JBW-43            | Jaffrey Water Works - GPW1             | 07/24/86     | 13.0          | 30.0            | 6.20           | <.10            | <5.0           | <500.0        |
| JBW-44            | Jaffrey Water Works - GPW2             | 05/04/84     | 5.0           | <10.0           | 6.72           | .09             | <5.0           | <500.0        |
| PCW-66            | Peterborough Water Works - GPW North   | 09/02/86     | 10.0          | 22.0            | 5.40           | <.10            | <5.0           | <500.0        |
| PCW-71            | Peterborough Water Works - GPW South   | 08/27/80     | 10.0          | 13.0            | --             | <.10            | <5.0           | <100.0        |
| PCW-126           | Peterborough Water Works - GPW Sum St. | 09/02/86     | 14.0          | 22.0            | 7.80           | <.10            | <5.0           | <500.0        |

Appendix D--Chemical analyses of ground-water samples from municipal wells in the Contoocook River basin--Continued

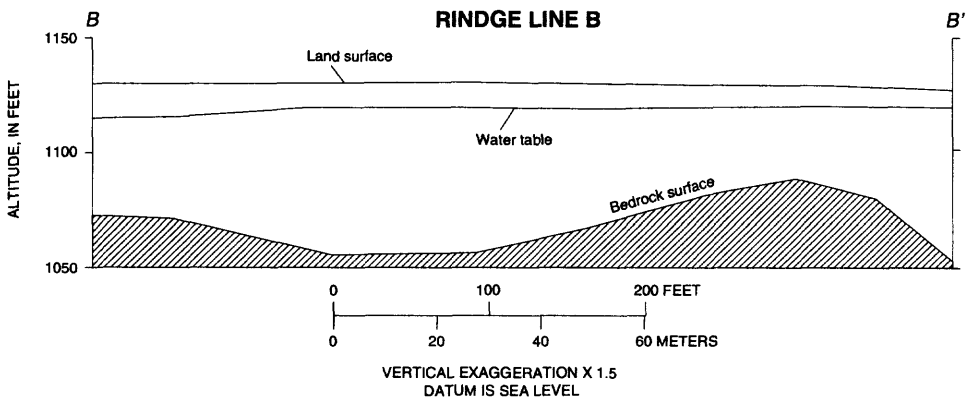
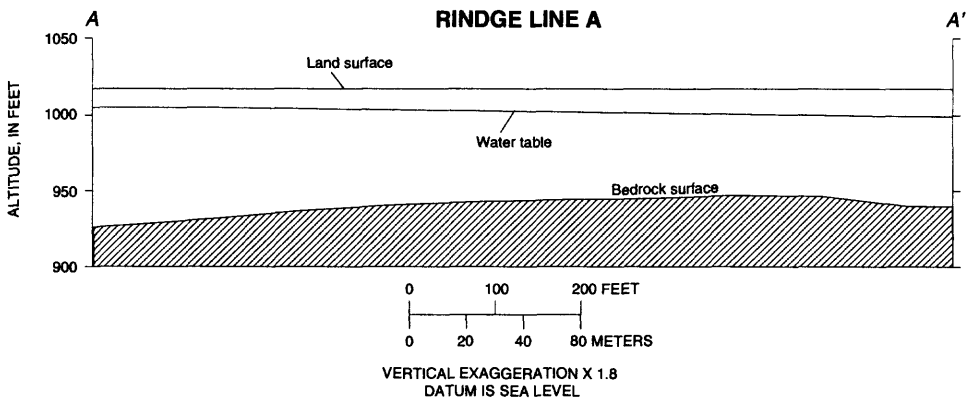
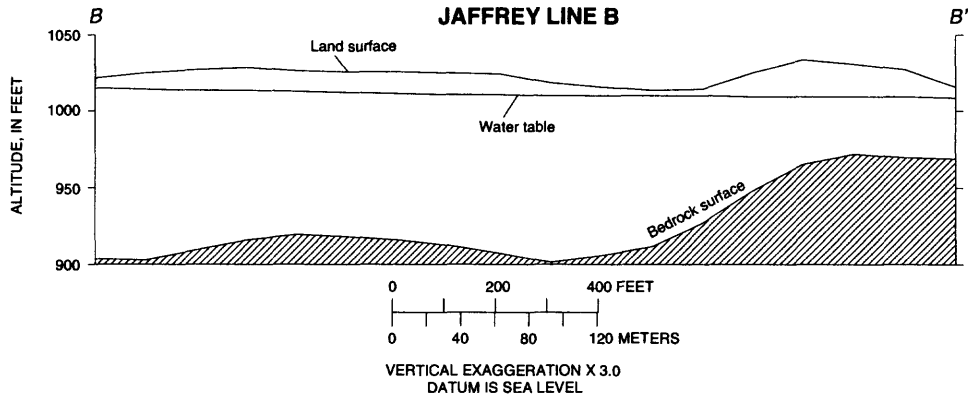
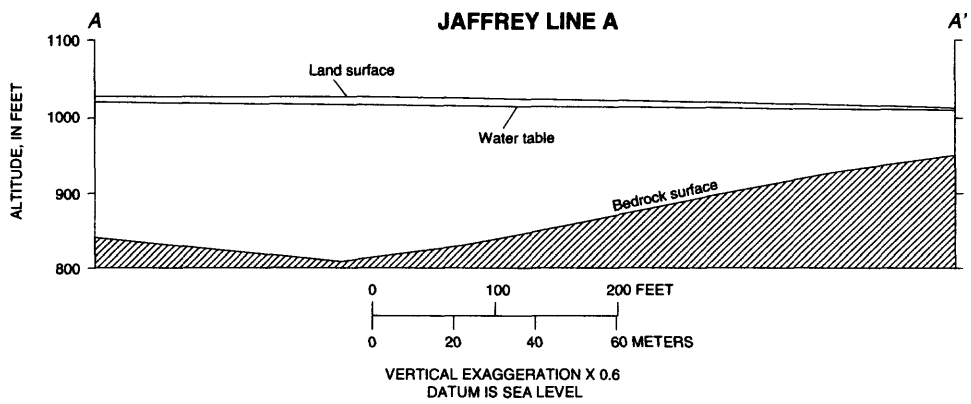
| USGS station name | State of New Hampshire station name    | Date sampled | Cadmium (µg/L) | Chromium (µg/L) | Copper (µg/L) | Iron (µg/L) | Lead (µg/L) | Manganese (µg/L) |
|-------------------|--|--------------|----------------|-----------------|---------------|-------------|-------------|------------------|
| BNW-10            | Bennington Water Dept. - GRW1          | 08/29/84     | --             | --              | --            | <100.0      | 40.0        | <30.0            |
| HMW-12            | Cogswell Spring Water Works - GPW1     | 04/26/85     | <1.0           | <30.0           | 200.0         | <100.0      | <10.0       | <30.0            |
| HMW-20            | Cogswell Spring Water Works - GPW2     | 04/26/85     | <1.0           | <30.0           | <100.0        | 100.0       | 20.0        | <30.0            |
| HMW-21            | Cogswell Spring Water Works - GPW3     | 07/06/82     | <5.0           | <30.0           | <100.0        | 300.0       | 55.0        | 60.0             |
| DEW-67            | Johnson City MHP - Gravel 145 feet     | 04/27/82     | <5.0           | <10.0           | <100.0        | <100.0      | <10.0       | <10.0            |
| JBW-43            | Jaffrey Water Works - GPW1             | 07/24/86     | <1.0           | <30.0           | <100.0        | <100.0      | <5.0        | <30.0            |
| JBW-44            | Jaffrey Water Works - GPW2             | 05/04/84     | <2.0           | <30.0           | <100.0        | <100.0      | 20.0        | <30.0            |
| PCW-66            | Peterborough Water Works - GPW North   | 09/02/86     | <5.0           | <30.0           | 200.0         | <100.0      | <5.0        | <30.0            |
| PCW-71            | Peterborough Water Works - GPW South   | 08/27/80     | <5.0           | <10.0           | 100.0         | 100.0       | <10.0       | 130.0            |
| PCW-126           | Peterborough Water Works - GPW Sum St. | 09/02/86     | <5.0           | <30.0           | <100.0        | <100.0      | <5.0        | <30.0            |

Appendix D--Chemical analyses of ground-water samples from municipal wells in the Contoocook River basin--Continued

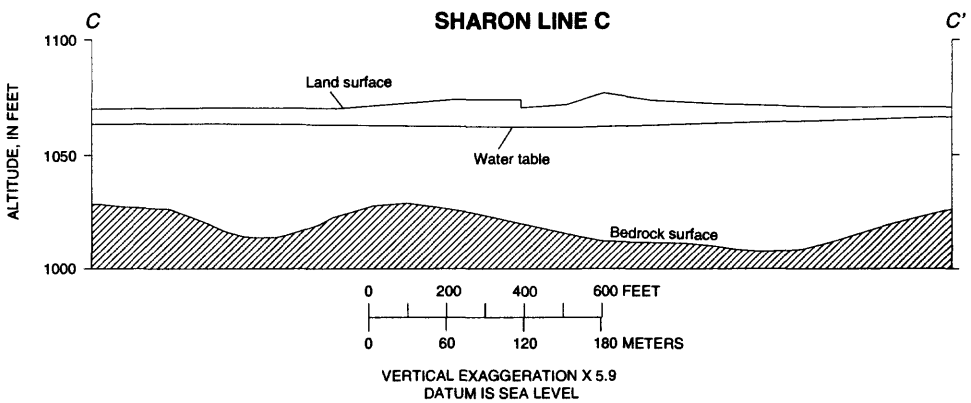
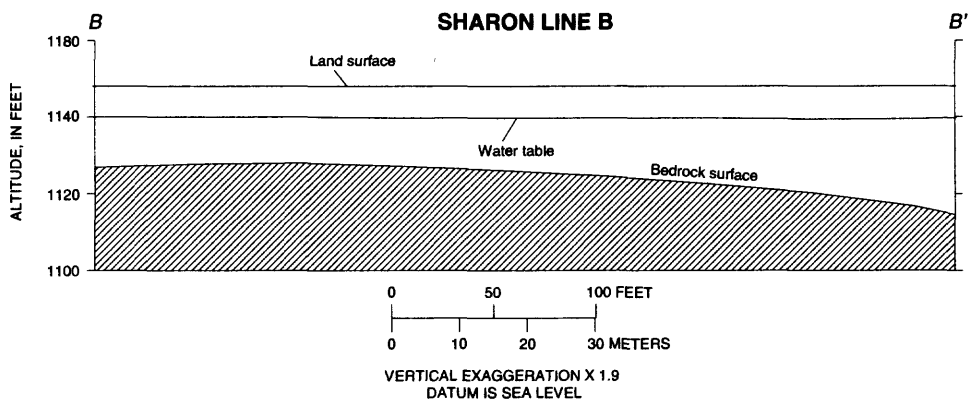
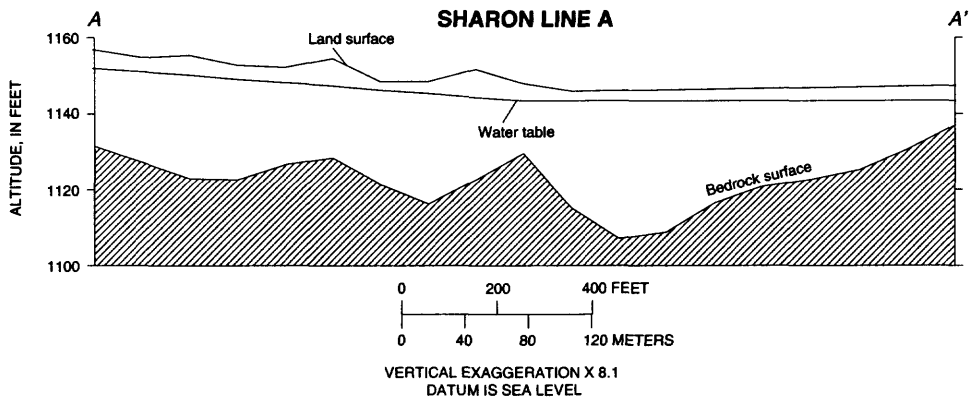
| USGS station name | State of New Hampshire station name    | Date sampled | Mercury (µg/L) | Nickel (µg/L) | Selenium (µg/L) | Silver (µg/L) | Zinc (µg/L) | Aluminum (µg/L) |
|-------------------|--|--------------|----------------|---------------|-----------------|---------------|-------------|-----------------|
| BNW-10            | Bennington Water Dept. - GRW1          | 08/29/84     | --             | <30.0         | <5.0            | --            | 140.0       | 60.0            |
| HMW-12            | Cogswell Spring Water Works - GPW1     | 04/26/85     | <1.0           | <50.0         | <5.0            | <30.0         | 30.0        | 30.0            |
| HMW-20            | Cogswell Spring Water Works - GPW2     | 04/26/85     | <1.0           | <50.0         | <5.0            | <30.0         | 30.0        | 90.0            |
| HMW-21            | Cogswell Spring Water Works - GPW3     | 07/06/82     | <1.0           | --            | 5.0             | <5.0          | --          | --              |
| DEW-67            | Johnson City MHP - Gravel 145 feet     | 04/27/82     | <1.0           | --            | <5.0            | <5.0          | --          | --              |
| JBW-43            | Jaffrey Water Works - GPW1             | 07/24/86     | <1.0           | <30.0         | <5.0            | <30.0         | <30.0       | <70.0           |
| JBW-44            | Jaffrey Water Works - GPW2             | 05/04/84     | <1.0           | <30.0         | <5.0            | <1.0          | <30.0       | 35.0            |
| PCW-66            | Peterborough Water Works - GPW North   | 09/02/86     | <1.0           | <100.0        | <5.0            | <30.0         | <30.0       | 32.0            |
| PCW-71            | Peterborough Water Works - GPW South   | 08/27/80     | <1.0           | --            | <5.0            | <10.0         | --          | --              |
| PCW-126           | Peterborough Water Works - GPW Sum St. | 09/02/86     | <1.0           | <100.0        | <5.0            | <30.0         | <30.0       | 52.0            |

## **Appendix E**

**Geohydrologic sections interpreted from seismic-refraction, well, and boring data**

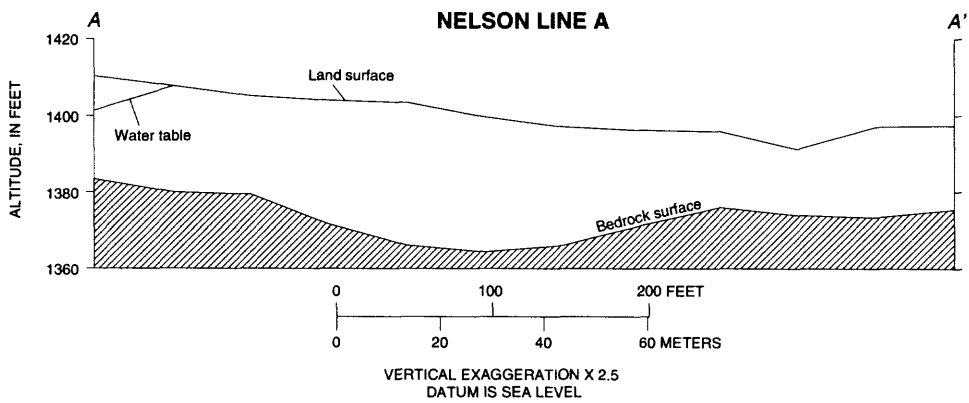
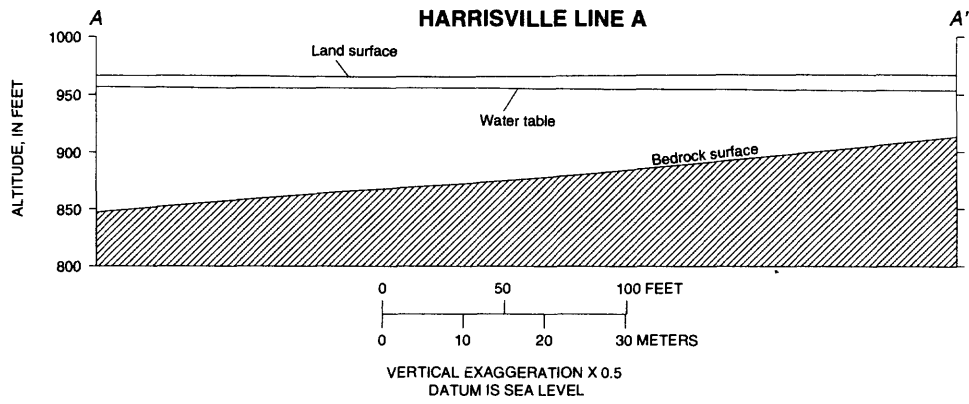
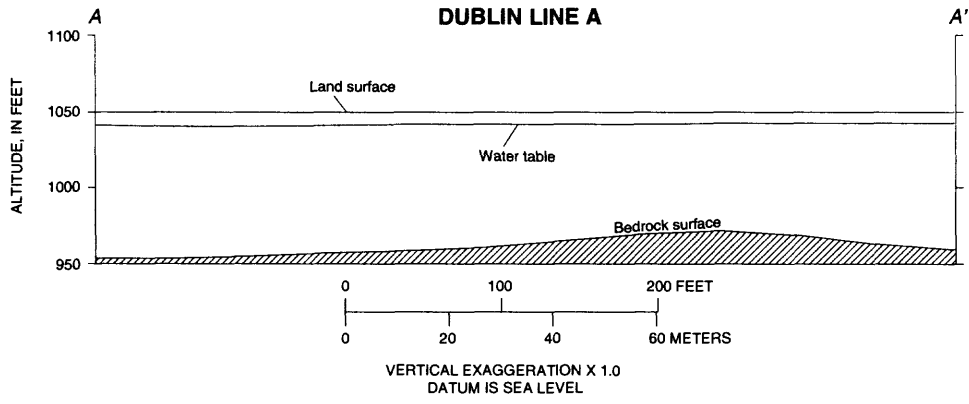


Appendix E1.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Jaffrey A-A' and B-B', and Rindge A-A' and B-B'. Lines of section are shown on plate 2.

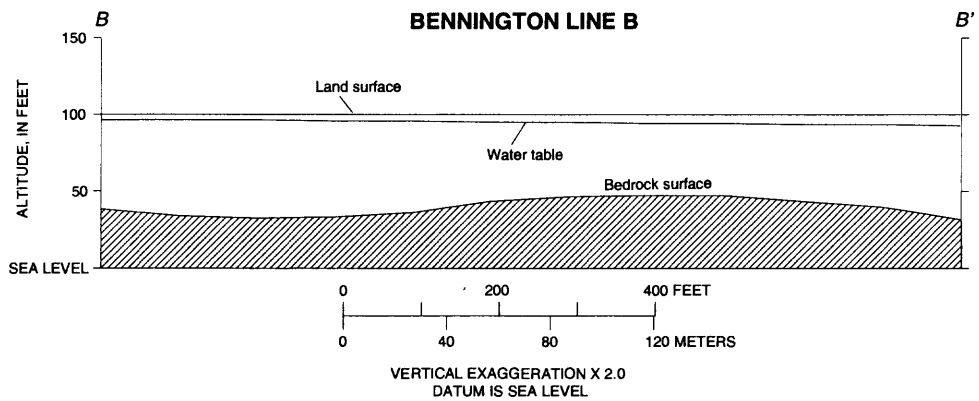
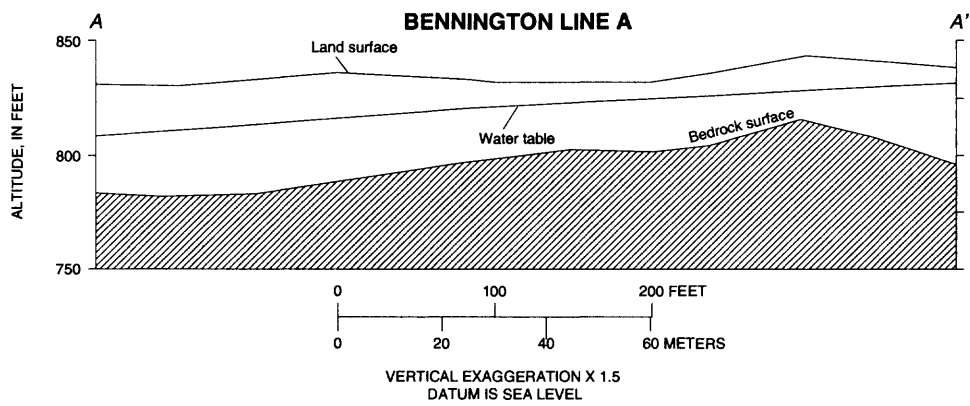
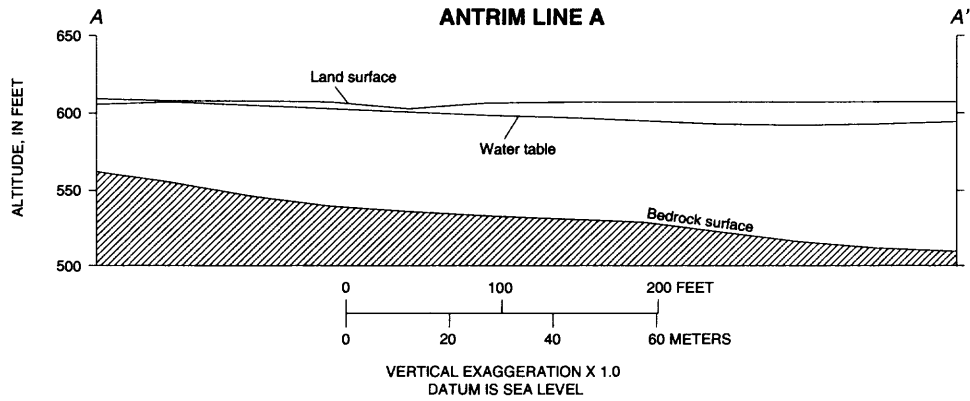


Appendix E2.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Sharon A-A', B-B', and C-C'. Lines of section are shown on plate 2.

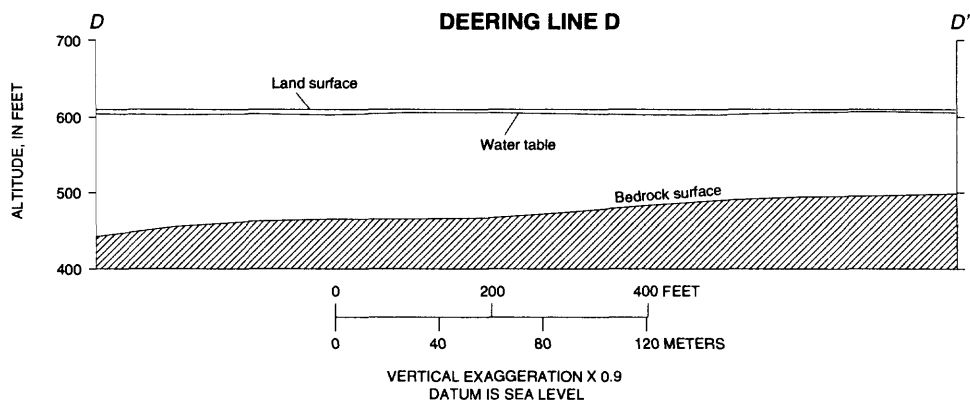
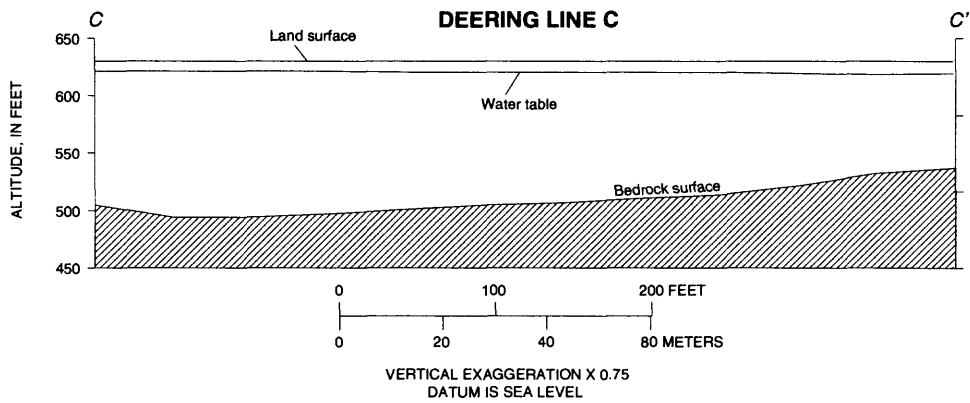
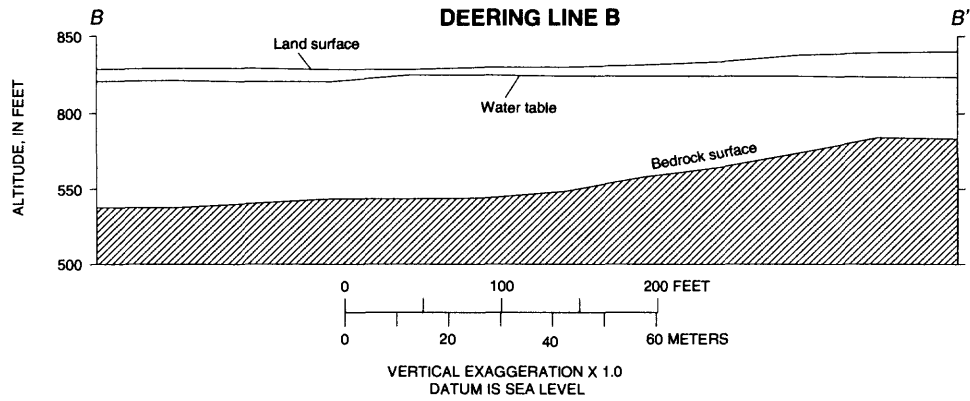
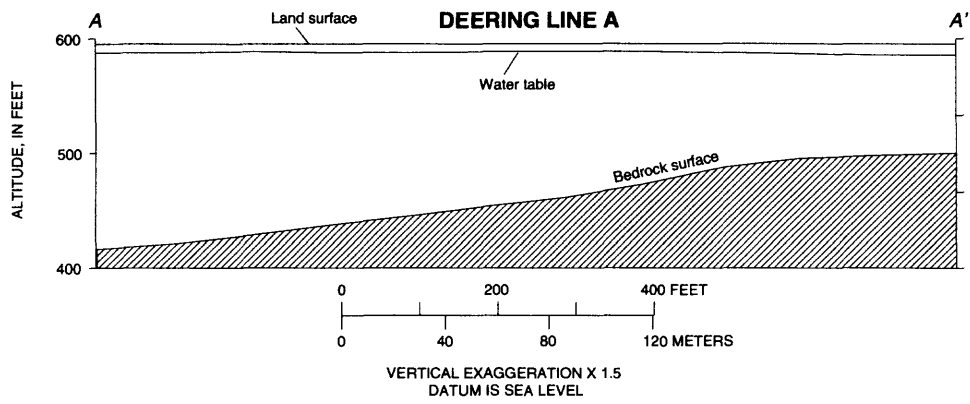




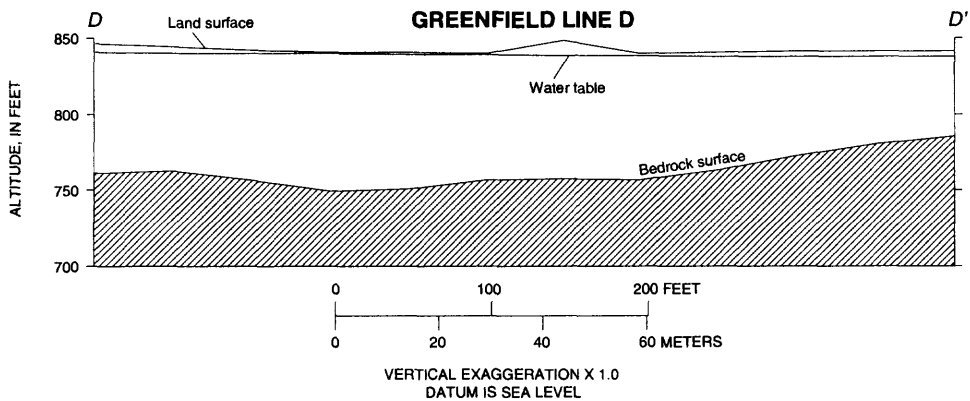
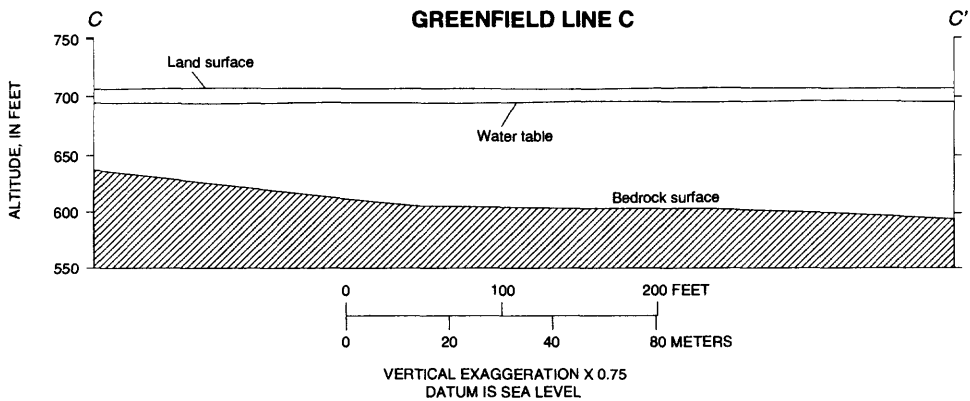
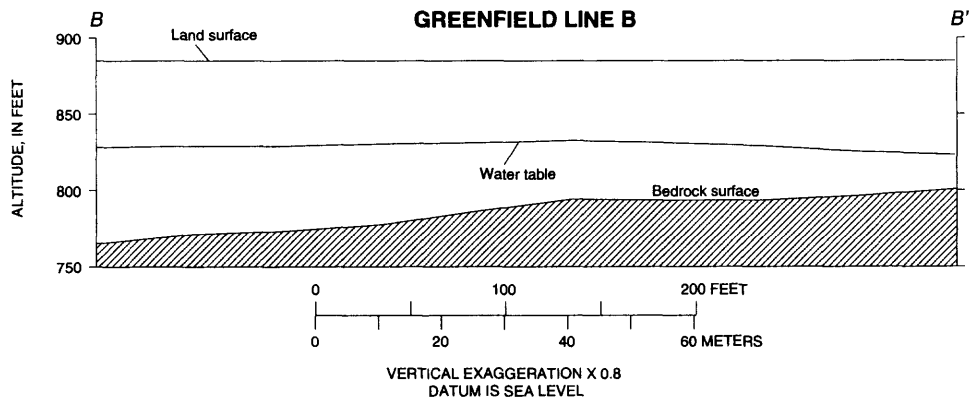
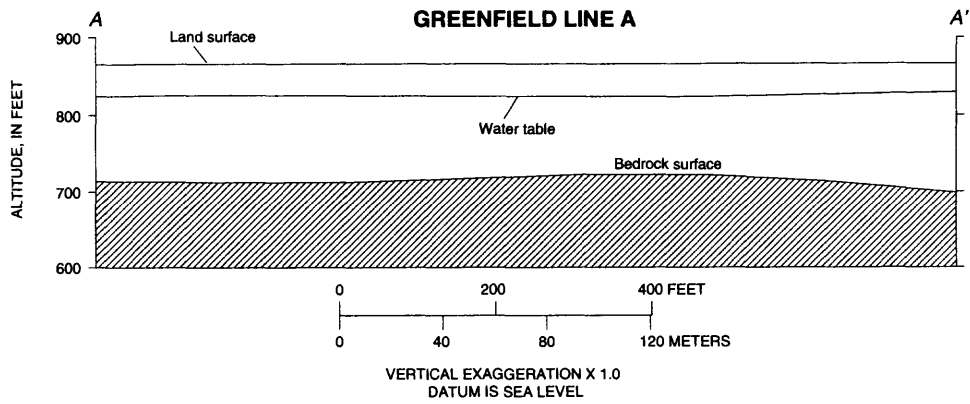
Appendix E3.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Dublin A-A', Harrisville A-A', and Nelson A-A'. Lines of section are shown on plate 2.



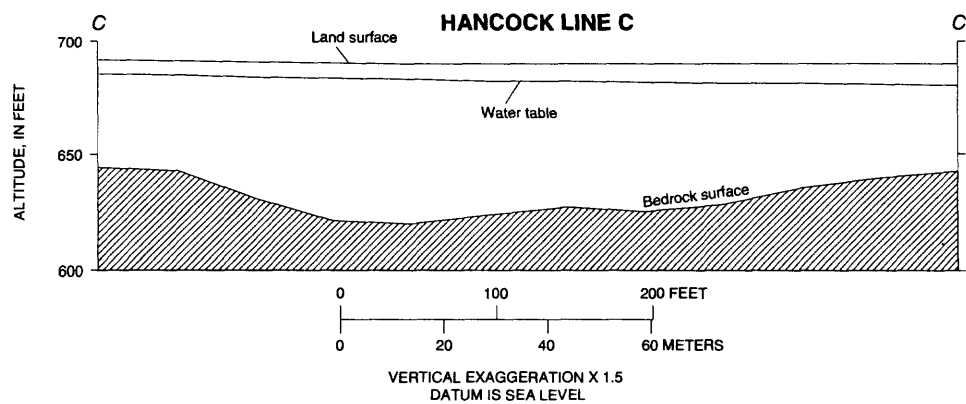
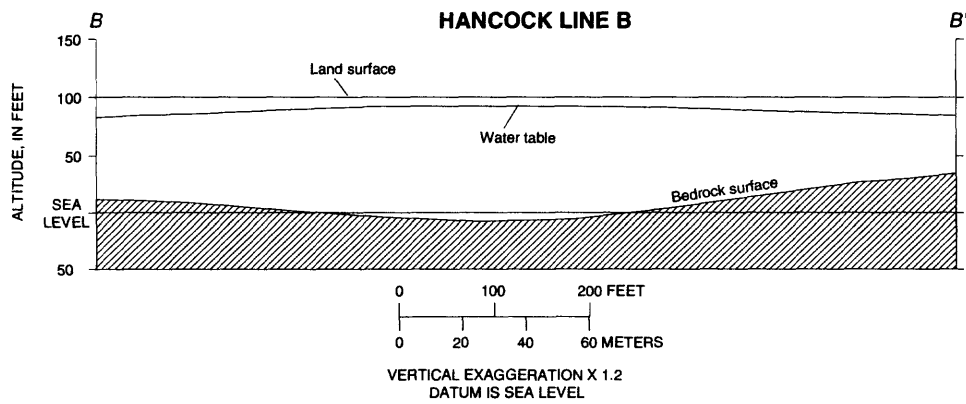
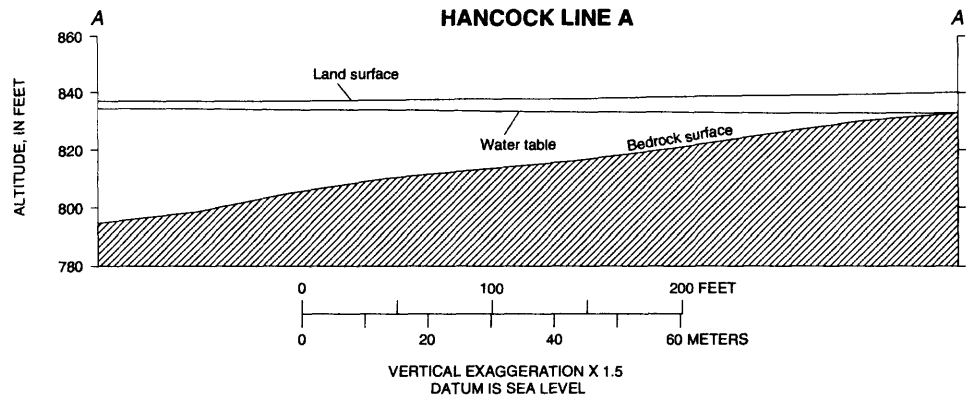
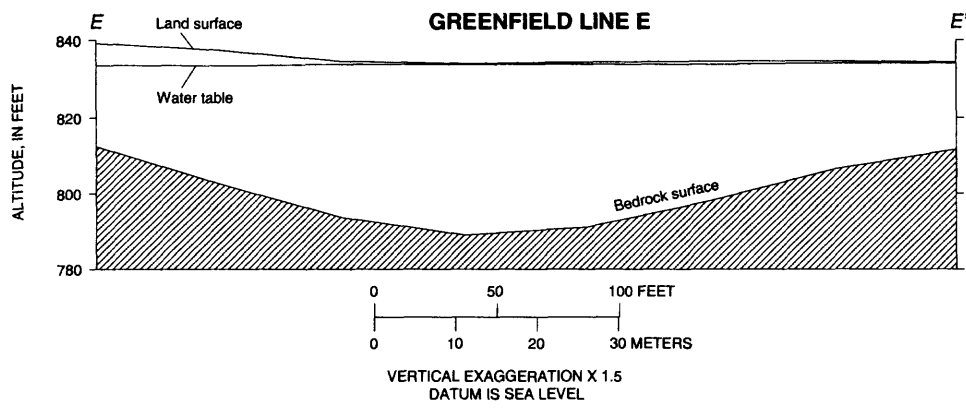
Appendix E4.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Antrim A-A', and Bennington A-A' and B-B'. Lines of section are shown on plate 2.



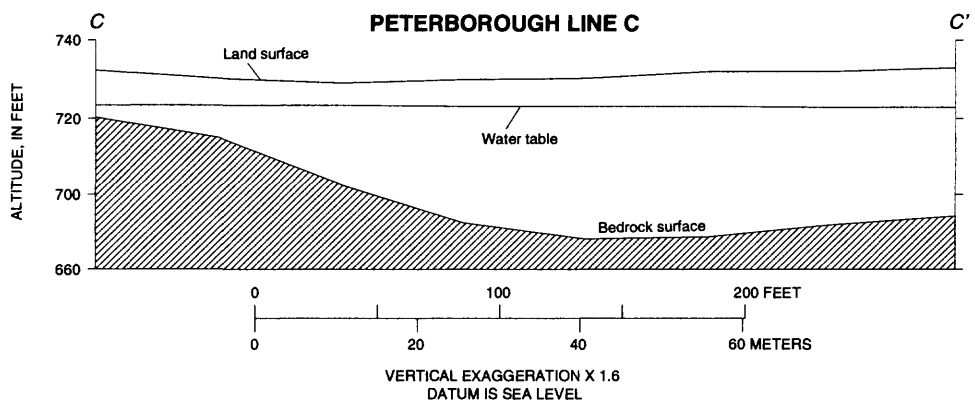
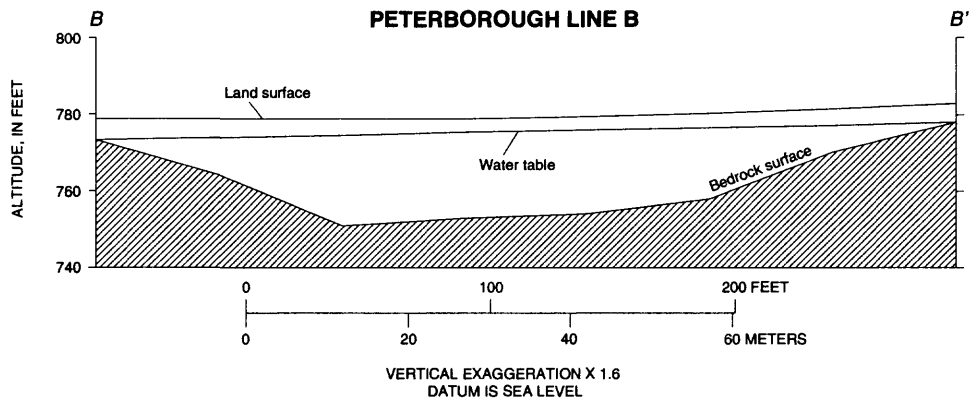
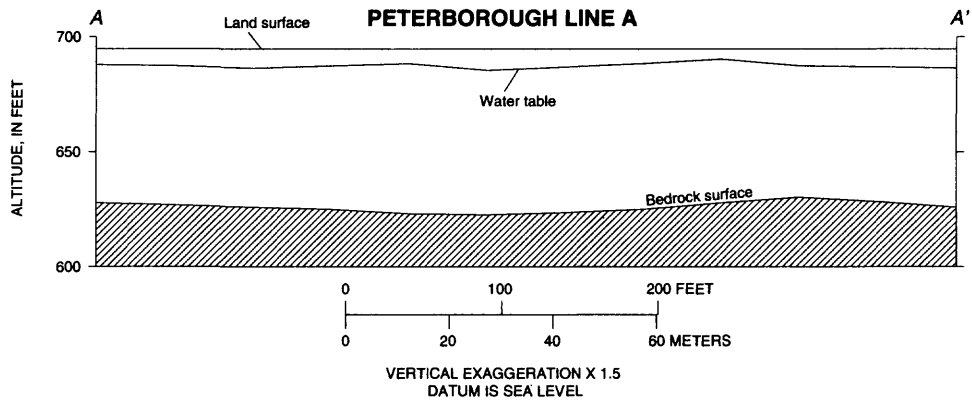
Appendix E5.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Deering A-A', B-B', C-C', and D-D'. Lines of section are shown on plate 2.



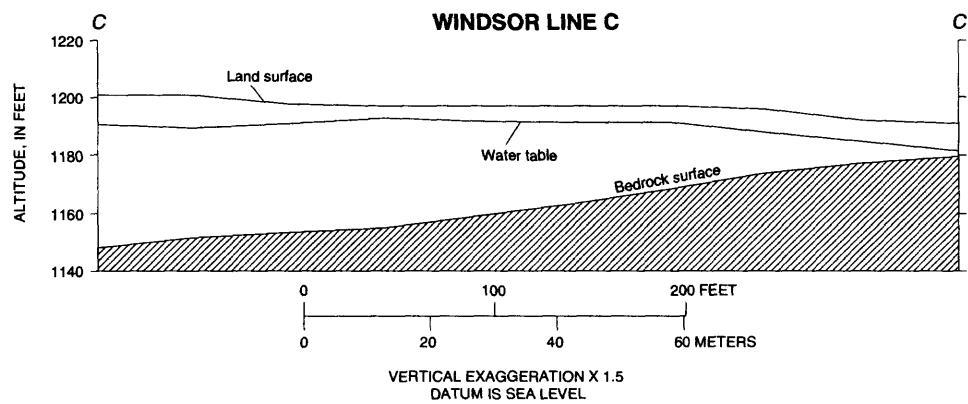
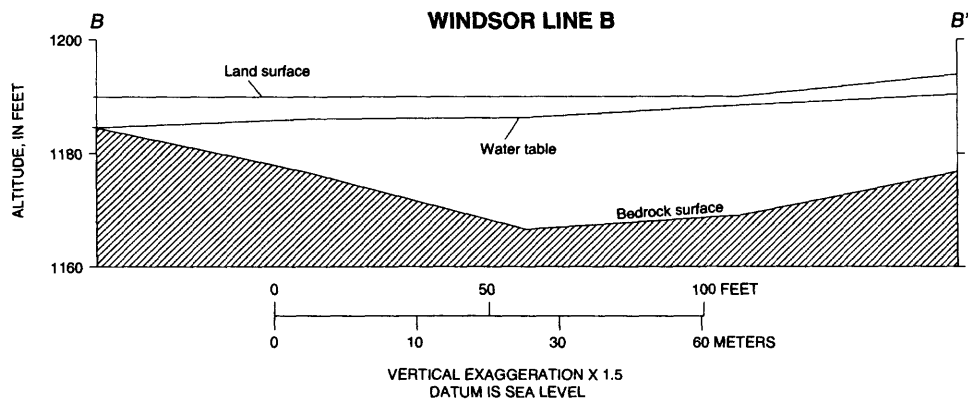
Appendix E6.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Greenfield A-A', B-B', C-C', and D-D'. Lines of section are shown on plate 2.



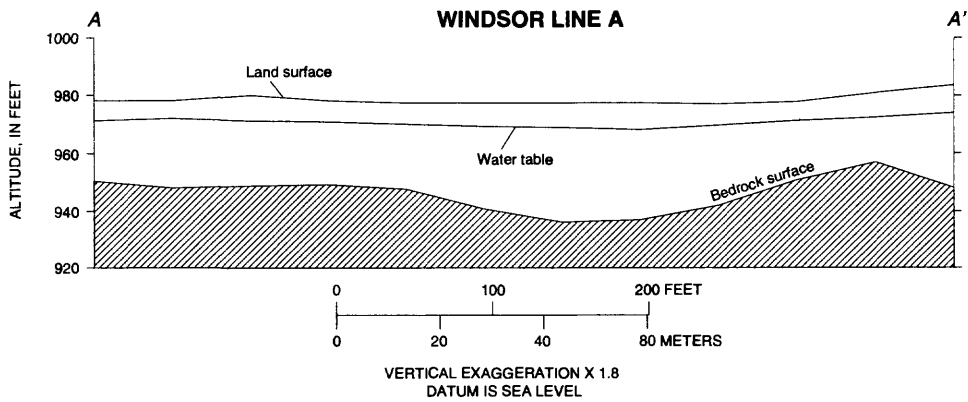
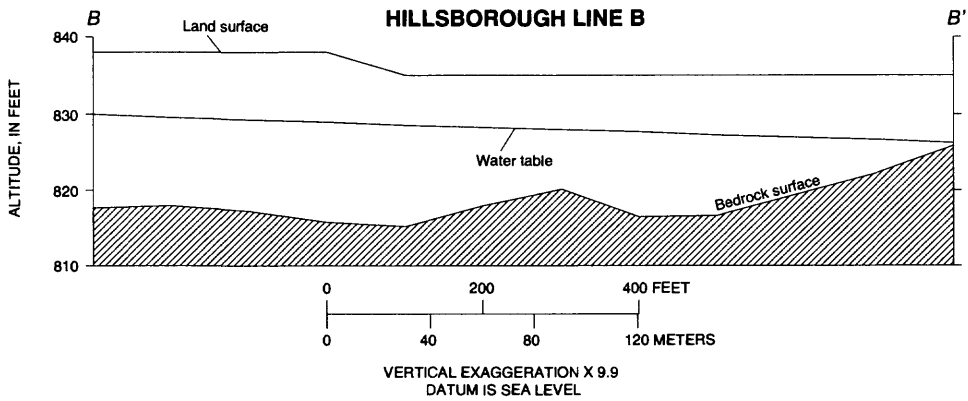
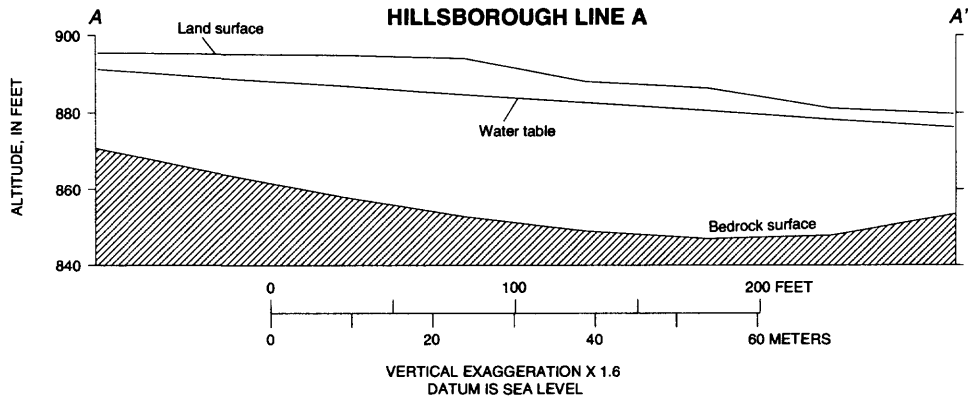
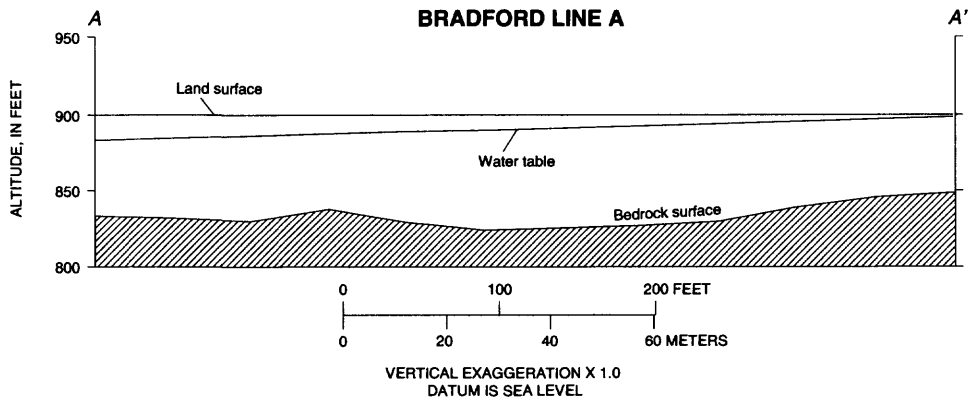
Appendix E7.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Greenfield E-E', and Hancock A-A', B-B', and C-C'. Lines of section are shown on plate 2.



Appendix E8.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Peterborough A-A', B-B', and C-C'. Lines of section are shown on plate 2.

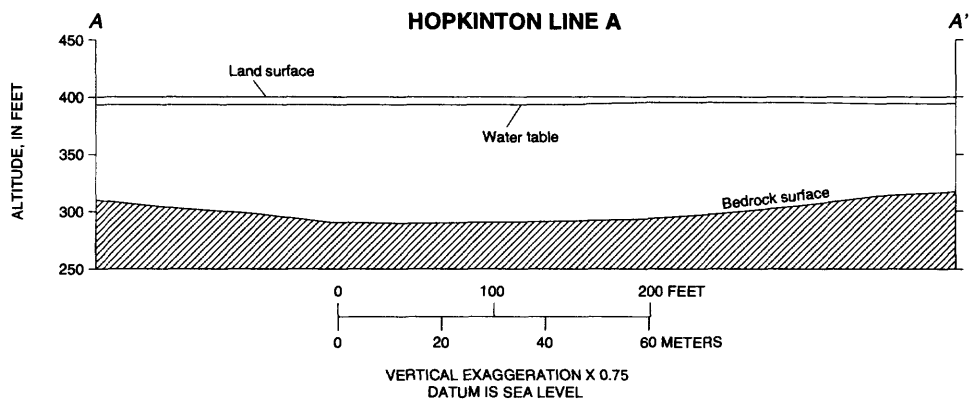
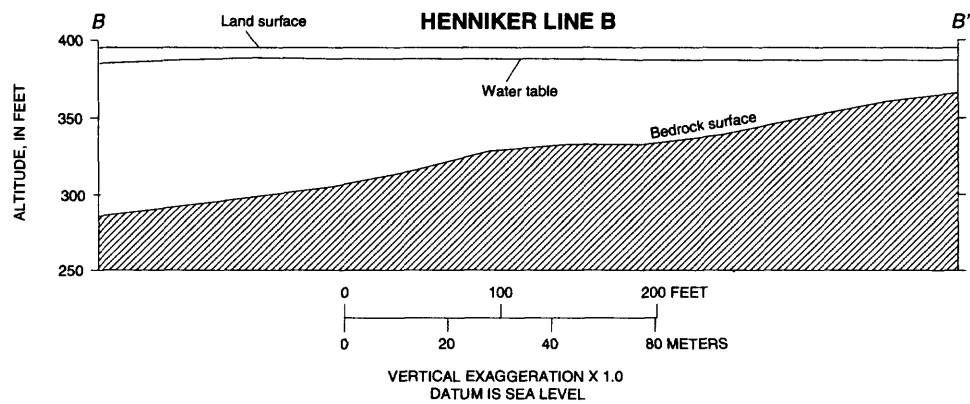
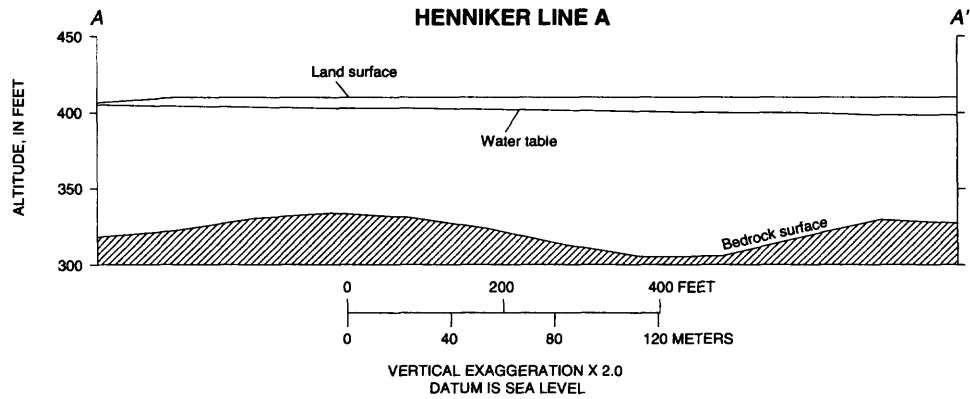


Appendix E9.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Windsor B-B' and C-C'. Lines of section are shown on plate 2.

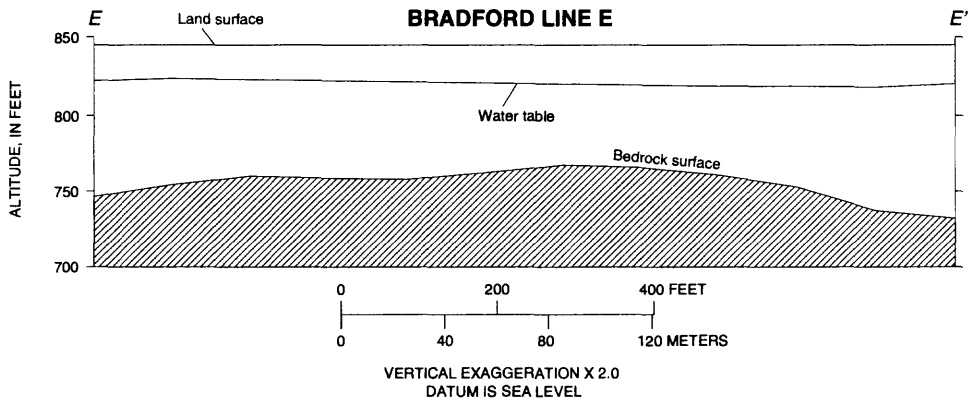
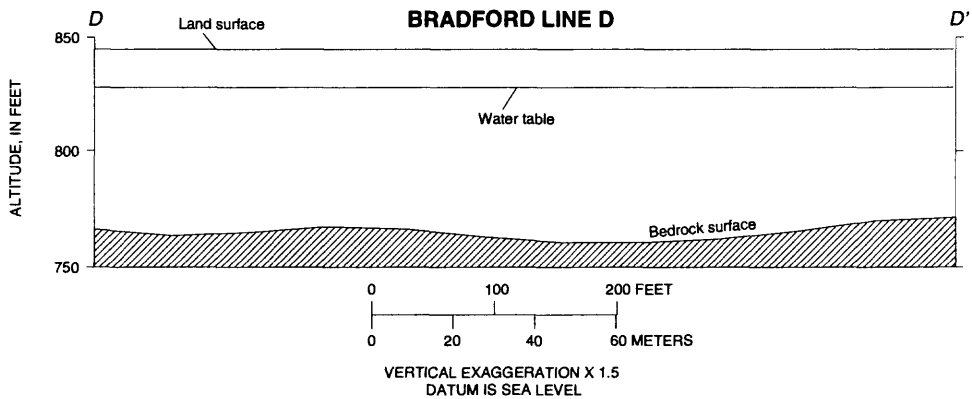
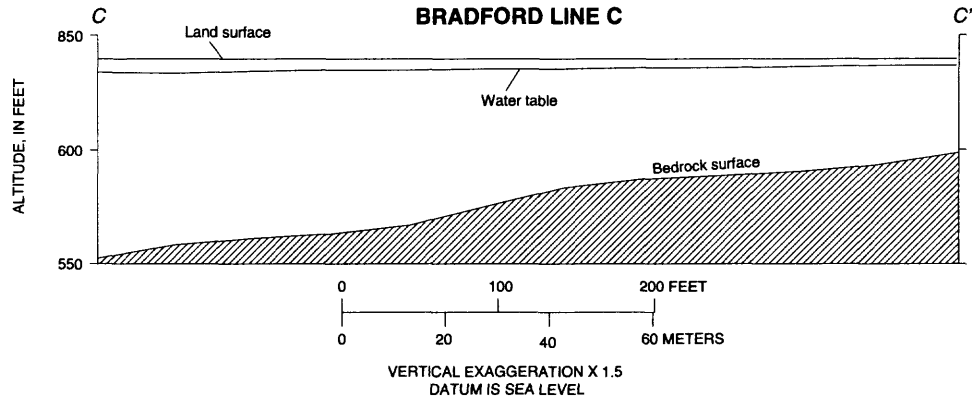
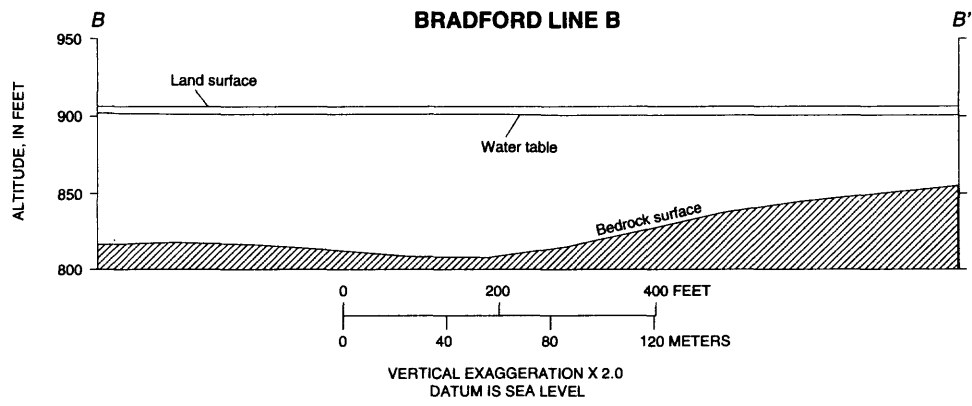


Appendix E10.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Bradford A-A', Hillsborough A-A' and B-B', and Windsor A-A'. Lines of section are shown on plates 1 and 2.

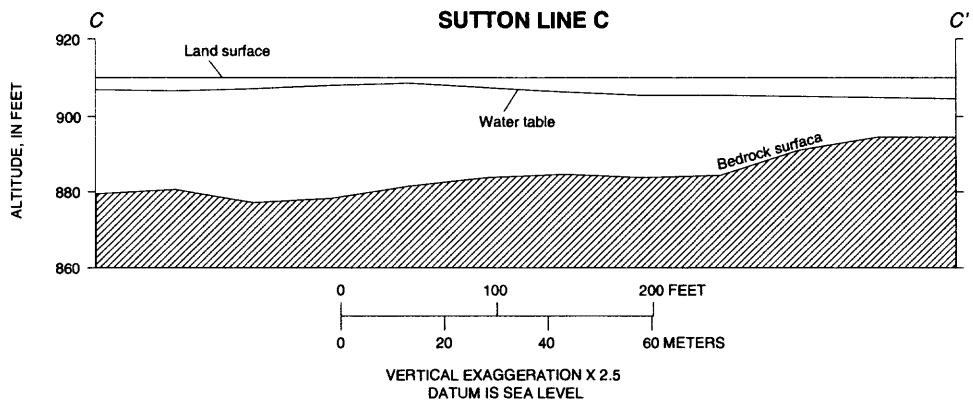
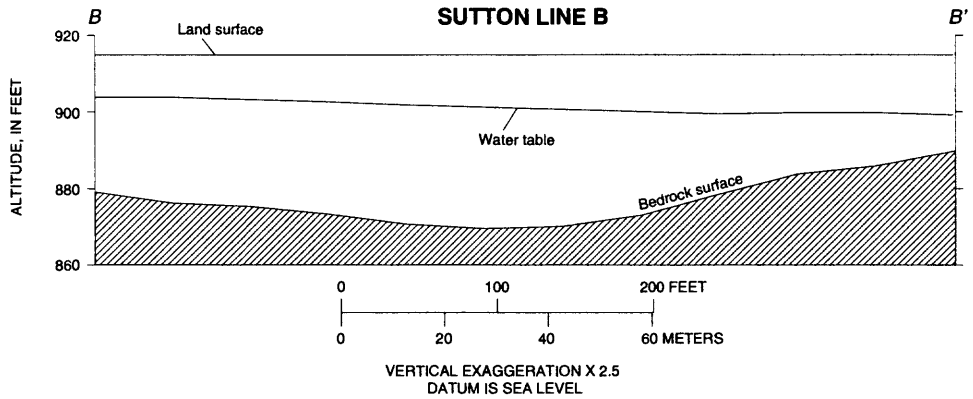
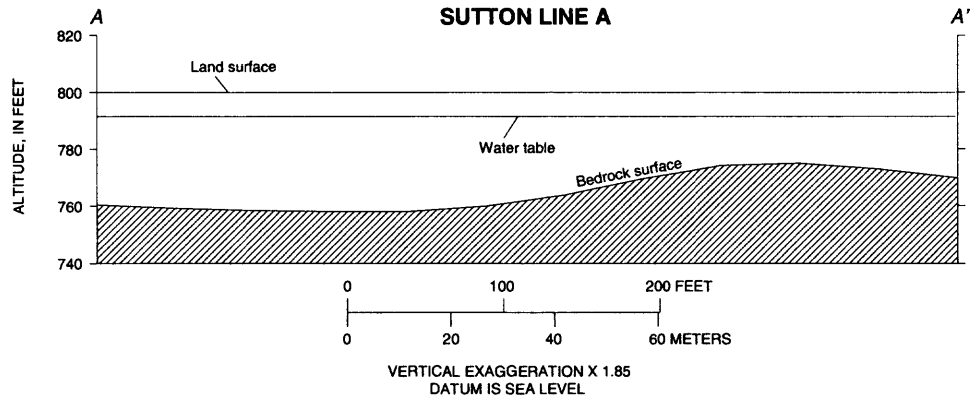
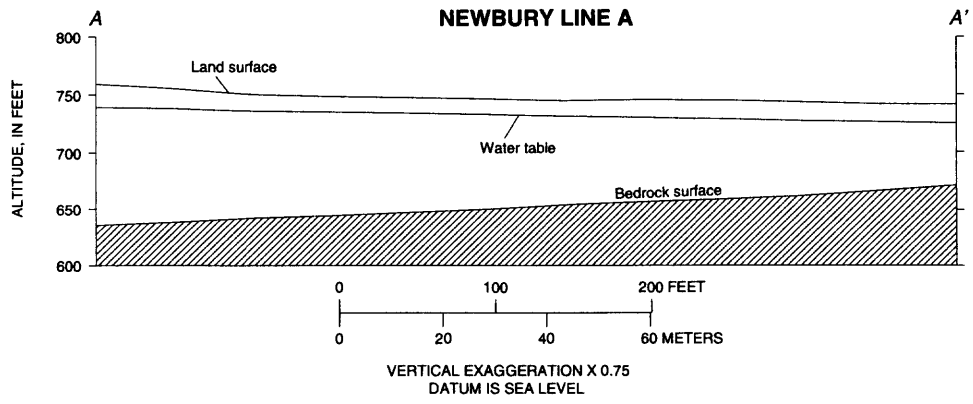




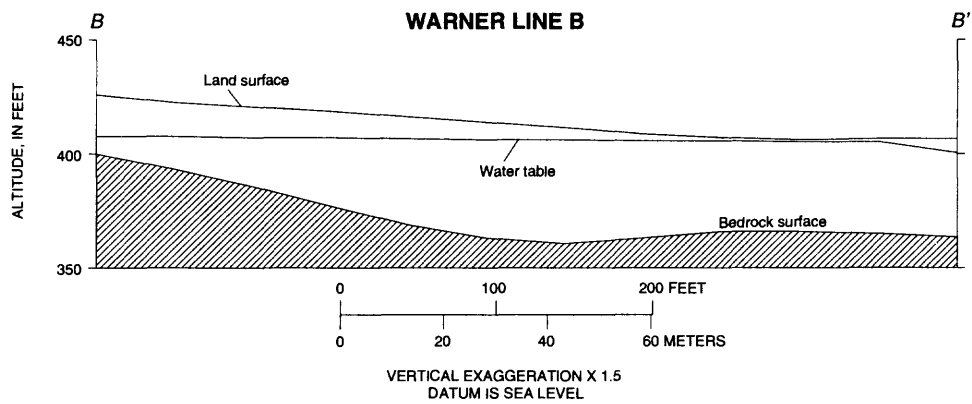
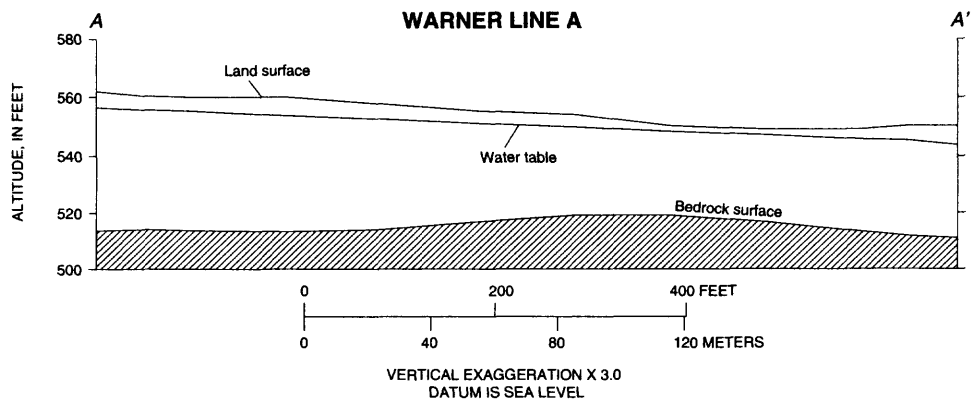
Appendix E11.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Henniker A-A' and B-B', and Hopkinton A-A'. Lines of section are shown on plate 1.



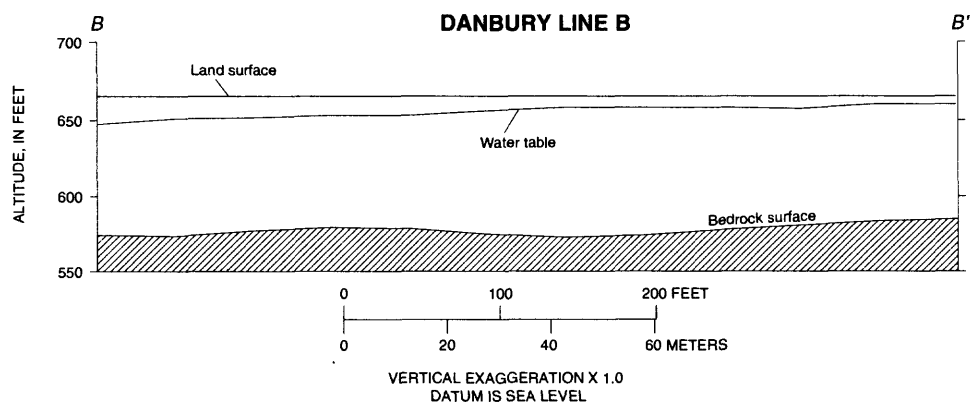
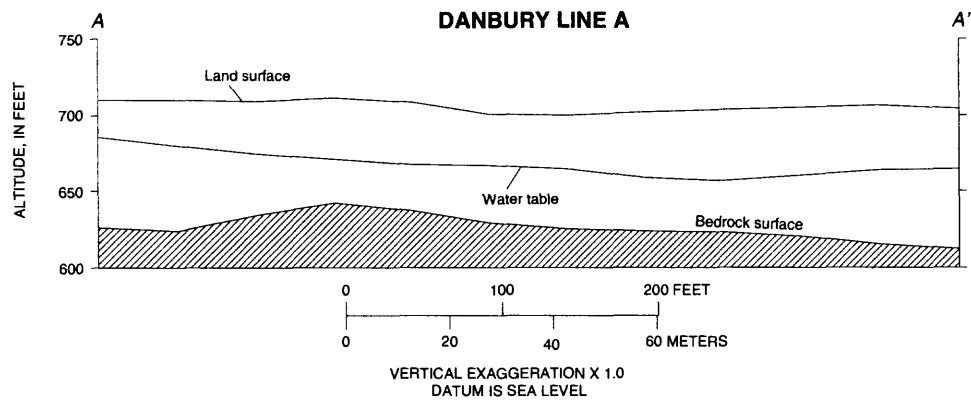
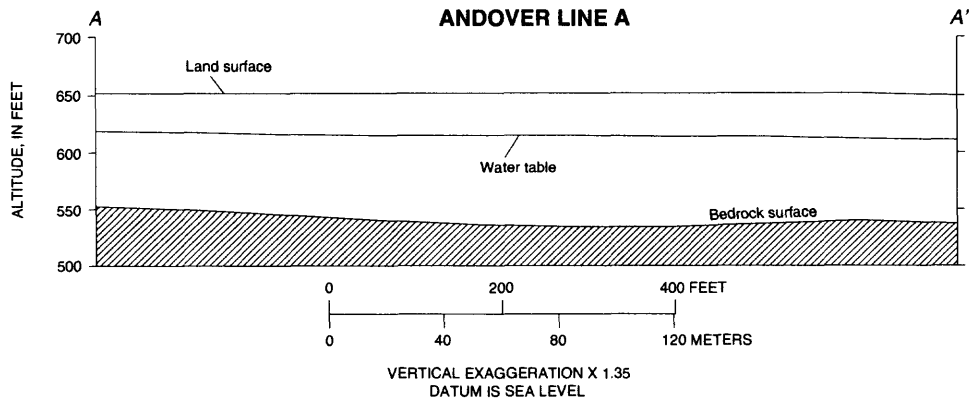
Appendix E12.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Bradford B-B', C-C', D-D', and E-E'. Lines of section are shown on plate 1.



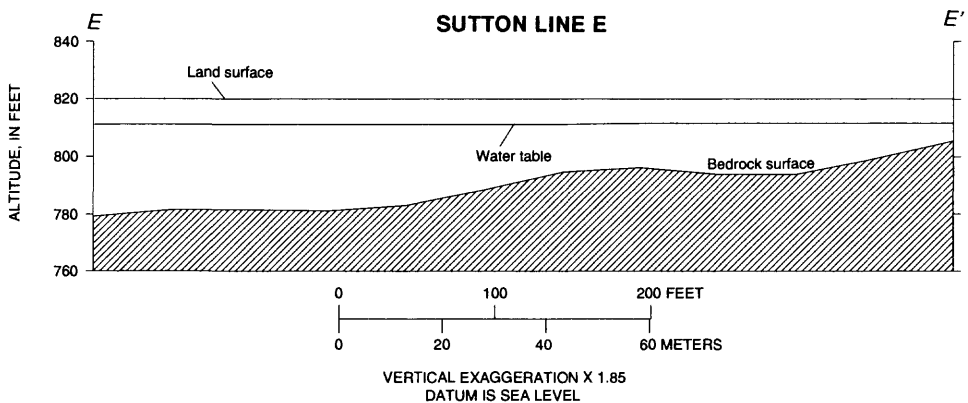
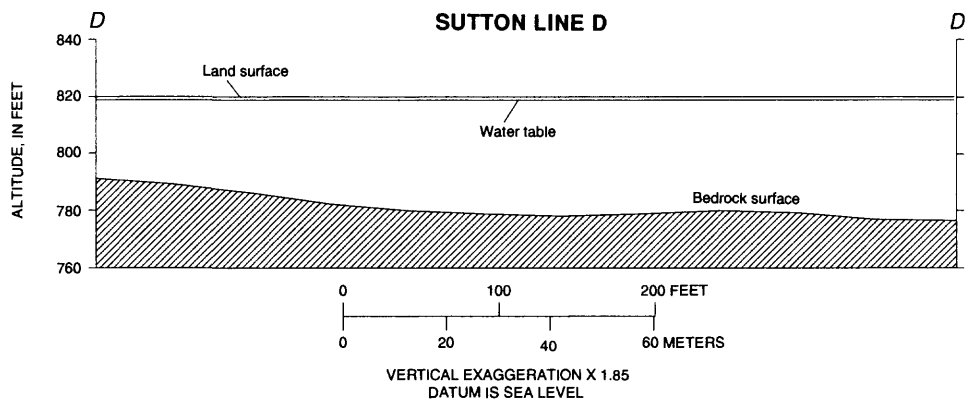
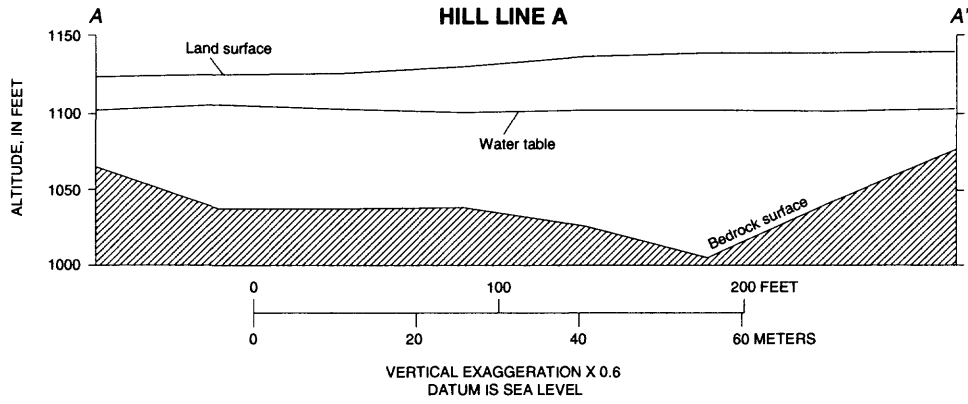
Appendix E13.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Newbury A-A', and Sutton A-A', B-B', and C-C'. Lines of section are shown on plate 1.



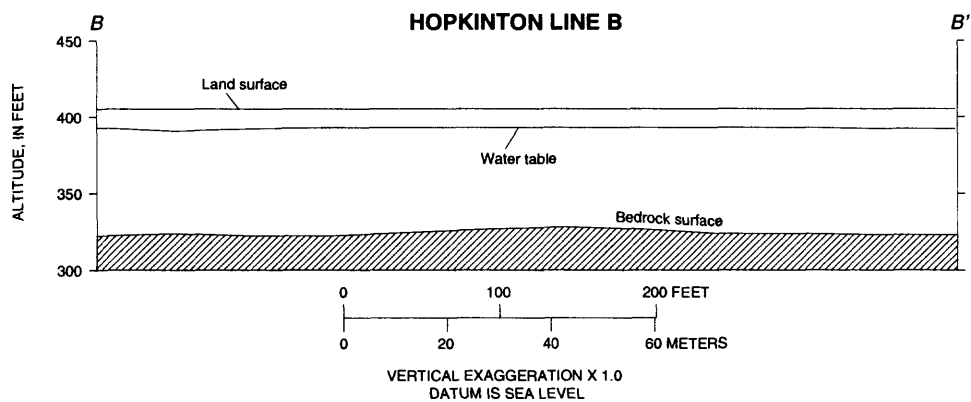
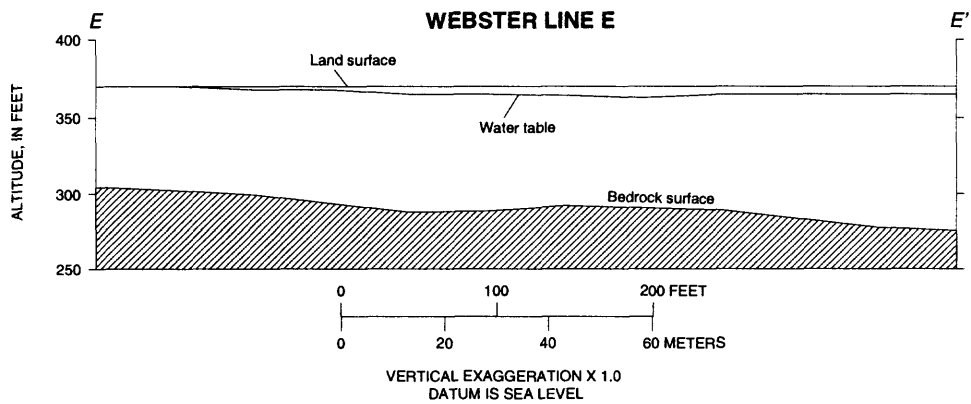
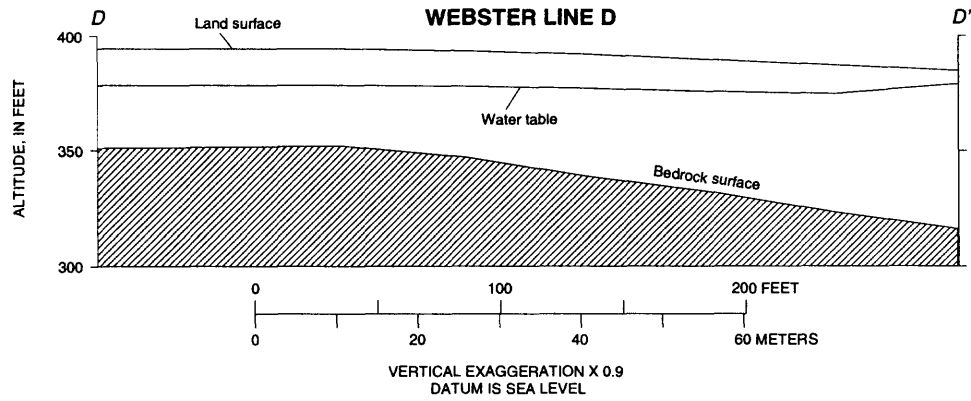
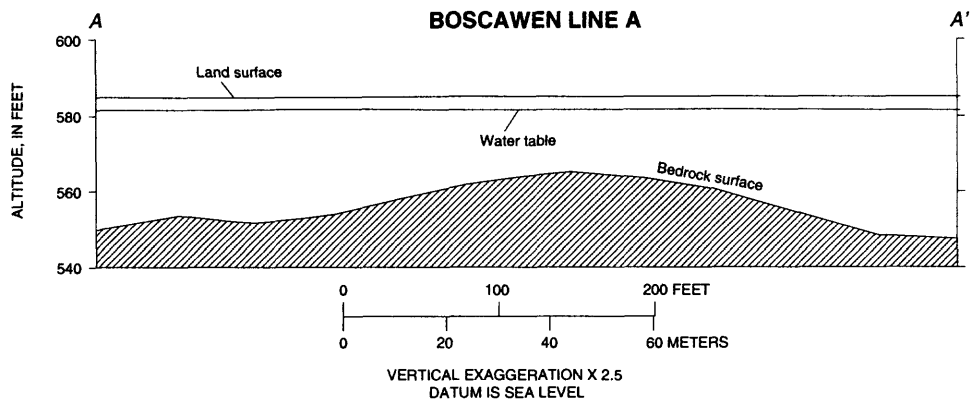
Appendix E14.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Warner A-A' and B-B'. Lines of section are shown on plate 1.



Appendix E15.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Andover A-A', and Danbury A-A' and B-B'. Lines of section are shown on plate 1.

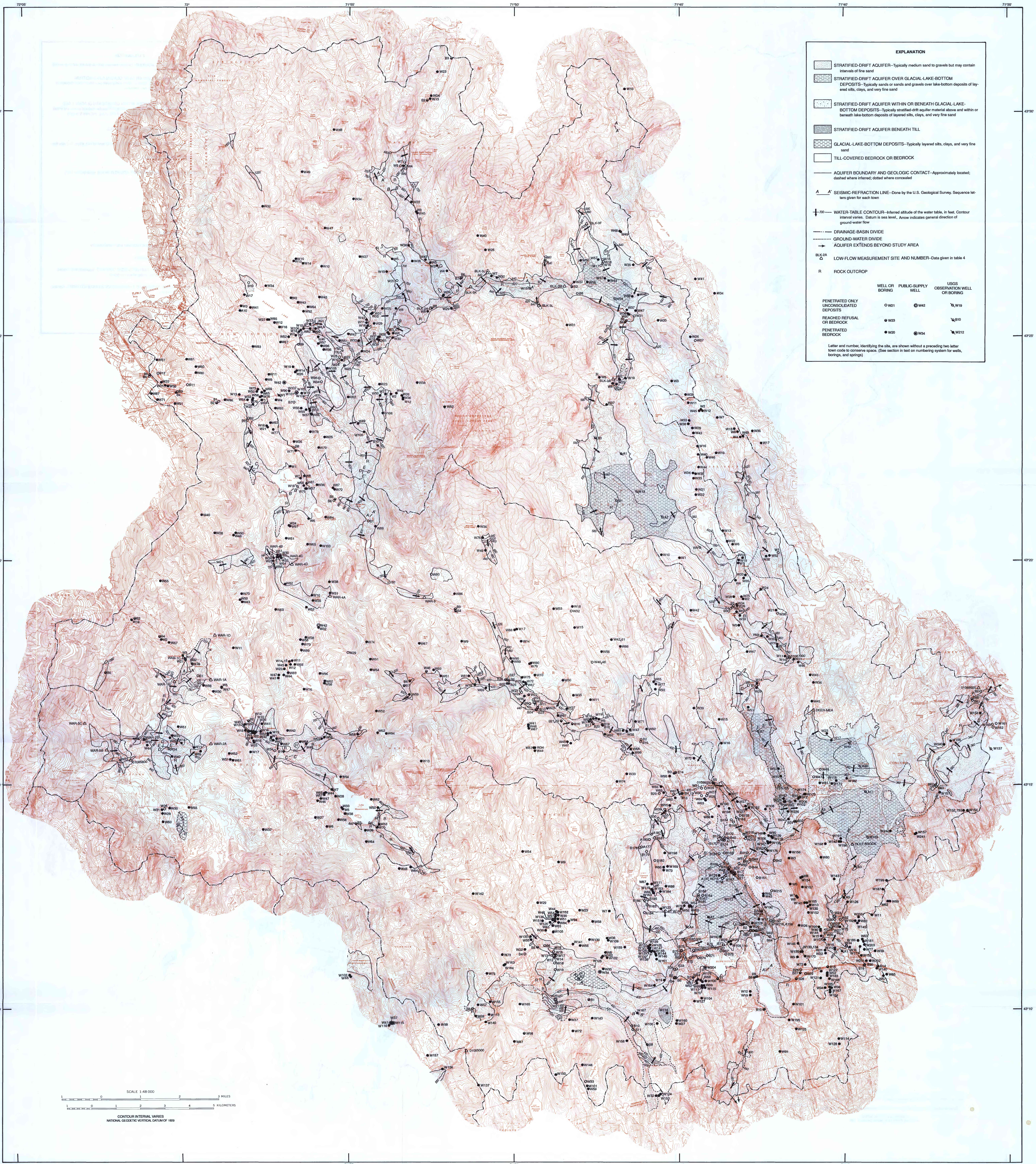


Appendix E16.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Hill A-A', Sutton D-D' and E-E'. Lines of section are shown on plate 1.



Appendix E17.--Geohydrologic sections interpreted from seismic-refraction, well, and boring data for Boscawen A-A', Webster D-D' and E-E', and Hopkinton B-B'. Lines of section are shown on plate 1.





**EXPLANATION**

- STRATIFIED-DRIFT AQUIFER—Typically medium sand to gravels but may contain intervals of fine sand
- STRATIFIED-DRIFT AQUIFER OVER GLACIAL-LAKE-BOTTOM DEPOSITS—Typically sands or gravels over lake-bottom deposits of layered silts, clays, and very fine sand
- STRATIFIED-DRIFT AQUIFER WITHIN OR BENEATH GLACIAL-LAKE-BOTTOM DEPOSITS—Typically stratified-drift aquifer material above and within or beneath lake-bottom deposits of layered silts, clays, and very fine sand
- STRATIFIED-DRIFT AQUIFER BENEATH TILL
- GLACIAL-LAKE-BOTTOM DEPOSITS—Typically layered silts, clays, and very fine sand
- TILL-COVERED BEDROCK OR BEDROCK
- AQUIFER BOUNDARY AND GEOLOGIC CONTACT—Approximately located; dashed where inferred; dotted where concealed
- SEISMIC-REFRACTION LINE—Done by the U.S. Geological Survey. Sequence letters given for each town
- WATER-TABLE CONTOUR—Inferred altitude of the water table, in feet. Contour interval varies. Datum is sea level. Arrow indicates general direction of ground-water flow
- DRAINAGE-BASIN DIVIDE
- GROUND-WATER DIVIDE
- AQUIFER EXTENDS BEYOND STUDY AREA
- LOW-FLOW MEASUREMENT SITE AND NUMBER—Data given in table 4
- ROCK OUTCROP

|   | WELL OR BORING | PUBLIC-SUPPLY WELL | USES OBSERVATION WELL OR BORING |
|---|----------------|--------------------|---------------------------------|
| PENETRATED ONLY UNCONSOLIDATED DEPOSITS | W101           | W102               | W119                            |
| REACHED REFUSAL OR BEDROCK              | W103           |                    | B10                             |
| PENETRATED BEDROCK                      | W104           | W105               | W122                            |

Letter and number, identifying the site, are shown without a preceding two letter town code to conserve space. (See section in text on numbering system for wells, borings, and springs)

SCALE 1:48,000  
0 1 2 3 MILES  
0 1 2 3 KILOMETERS  
CONTOUR INTERVAL VARIES  
NATIONAL GEOLOGIC VERTICAL DATUM OF 1989

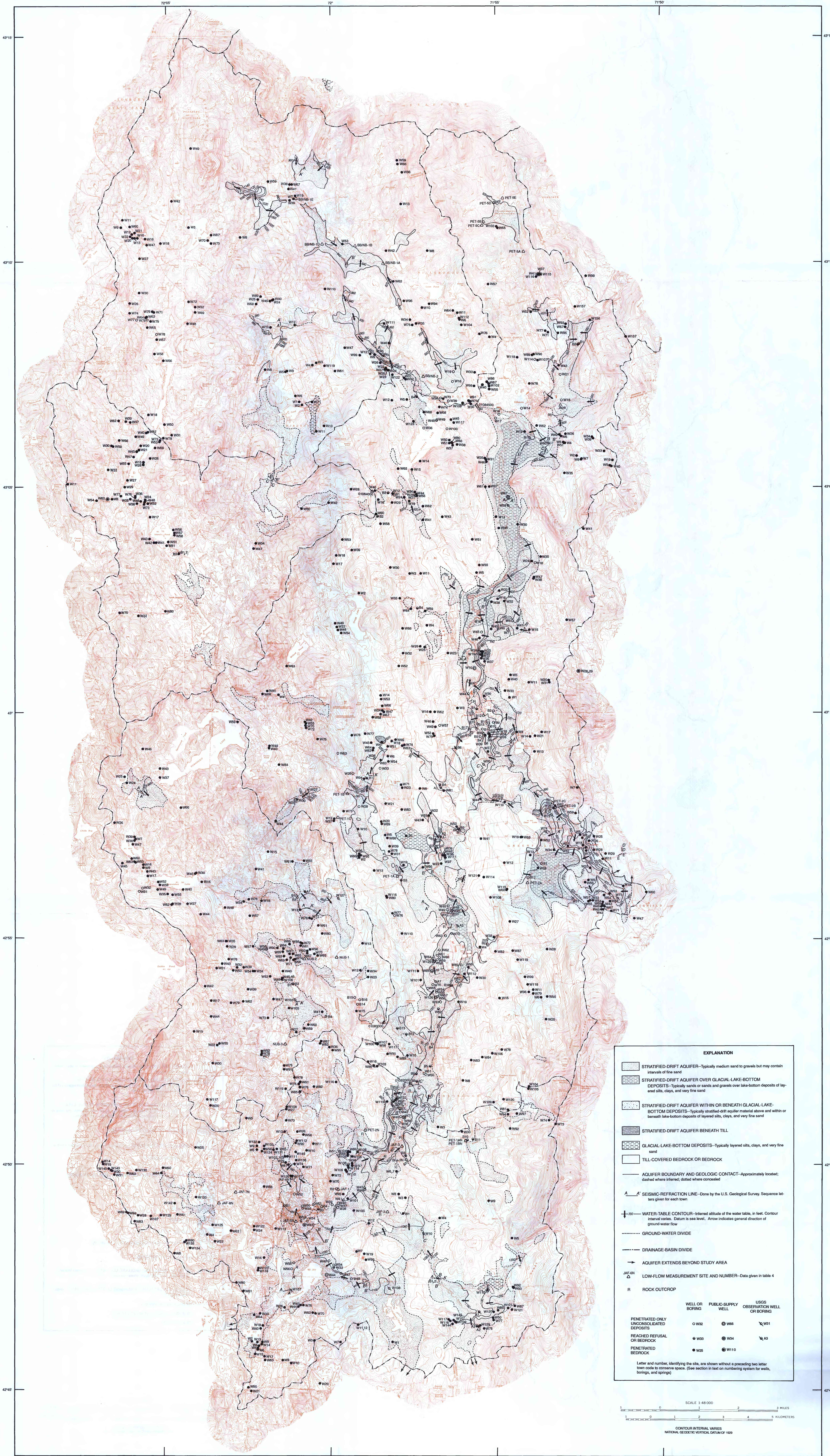
**ALTITUDE OF WATER TABLE, DATA-COLLECTION LOCATIONS, AND SURFICIAL GEOLOGY FOR STRATIFIED-DRIFT AQUIFERS IN THE CONTOOCOOK RIVER BASIN, SOUTH-CENTRAL NEW HAMPSHIRE, NORTHERN SUBBASINS**

By  
Philip T. Harte and William Johnson  
1994

Base from U.S. Geological Survey  
Lowell, Min., N.H., 1984; Newport, N.H., 1984;  
Sunapee, N.H., 1984; 1:25,000 scale  
Hillsborough Upper Village, N.H., 1987  
Hemlock, N.H., 1987; Hopkinton, N.H., 1985;  
Concord, N.H., 1985; Bradford, N.H., 1987;  
Warren, N.H., 1987; Webster, N.H., 1987;  
Penacook, N.H., 1987; New London, N.H., 1987;  
Andover, N.H., 1987; Franklin, N.H., 1987;  
Grafton, N.H., 1987; Danbury, N.H., 1987.  
1:24,000 scale

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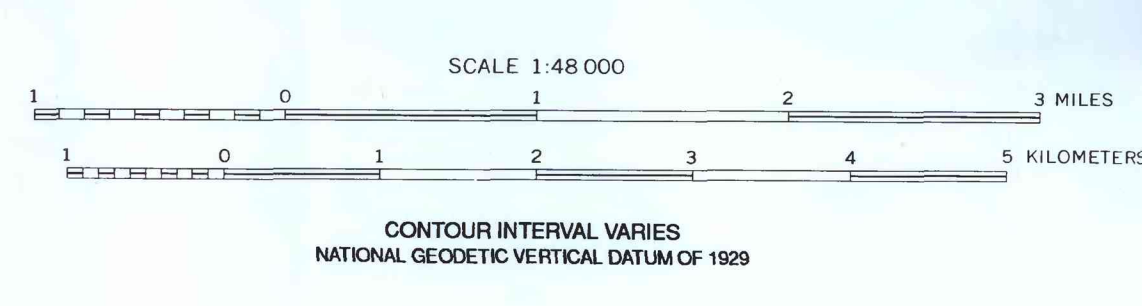


**EXPLANATION**

- STRATIFIED-DRIFT AQUIFER—Typically medium sand to gravels but may contain intervals of fine sand
- STRATIFIED-DRIFT AQUIFER OVER GLACIAL-LAKE-BOTTOM DEPOSITS—Typically sands or sands and gravels over lake-bottom deposits of layered silts, clays, and very fine sand
- STRATIFIED-DRIFT AQUIFER WITHIN OR BENEATH GLACIAL-LAKE-BOTTOM DEPOSITS—Typically stratified-drift aquifer material above and within or beneath lake-bottom deposits of layered silts, clays, and very fine sand
- STRATIFIED-DRIFT AQUIFER BENEATH TILL
- GLACIAL-LAKE-BOTTOM DEPOSITS—Typically layered silts, clays, and very fine sand
- TILL-COVERED BEDROCK OR BEDROCK
- AQUIFER BOUNDARY AND GEOLOGIC CONTACT—Approximately located; dashed where inferred; dotted where contoured
- SEISMIC-REFRACTION LINE—Done by the U.S. Geological Survey. Sequence letters given for each town
- WATER-TABLE CONTOUR—Interpolated altitudes of the water table, in feet. Contour interval varies. Datum is sea level. Arrow indicates general direction of ground-water flow
- GROUND-WATER DIVIDE
- DRAINAGE-BASIN DIVIDE
- AQUIFER EXTENDS BEYOND STUDY AREA
- LOW-FLOW MEASUREMENT SITE AND NUMBER—Data given in table 4
- ROCK OUTCROP

| WELL OR BORING | PUBLIC-SUPPLY WELL | USGS OBSERVATION WELL OR BORING |
|----------------|--------------------|---------------------------------|
| ○ W32          | ● W66              | △ W51                           |
| ● W33          | ● W54              | △ A3                            |
| ● W25          | ● W110             |                                 |

Letter and number, identifying the site, are shown without a preceding two letter town code to conserve space. (See section in text on numbering system for wells, borings, and springs)



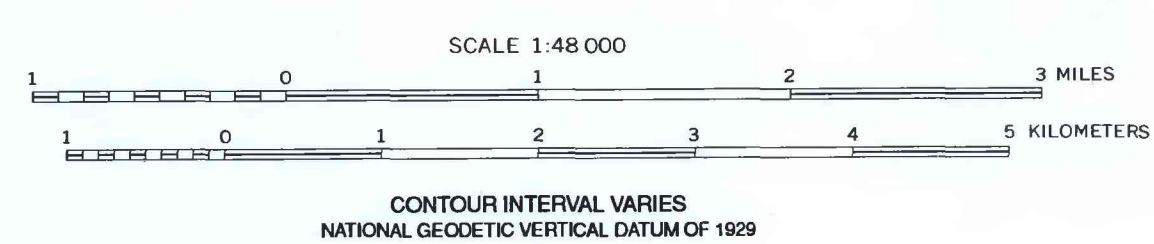
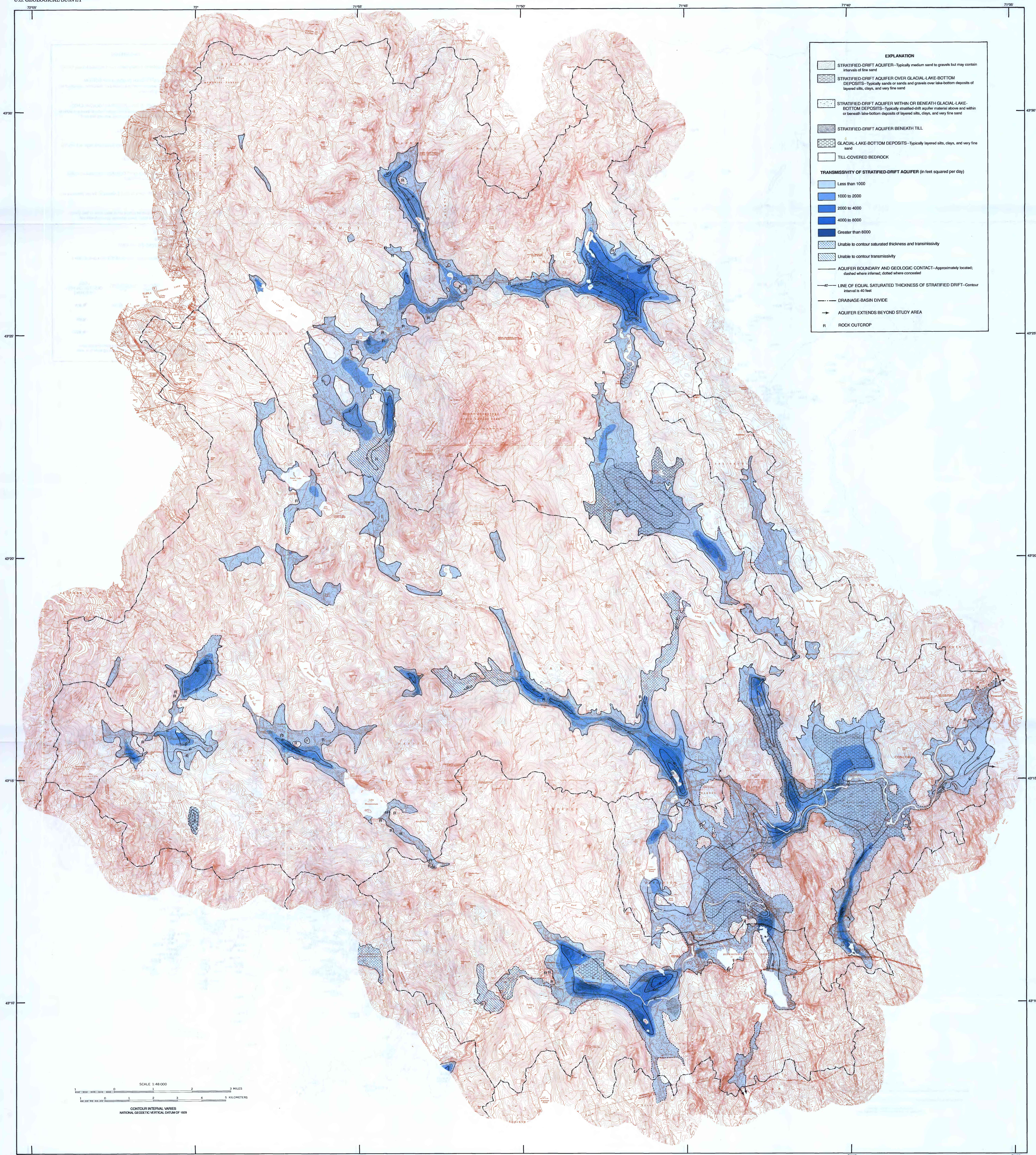
ALTITUDE OF WATER TABLE, DATA-COLLECTION LOCATIONS, AND SURFICIAL GEOLOGY FOR STRATIFIED-DRIFT AQUIFERS IN THE CONTOOCCOOK RIVER BASIN, SOUTH-CENTRAL NEW HAMPSHIRE, SOUTHERN SUBBASINS

Based on U.S. Geological Survey  
Monkton, N.H., 1984; Marlborough, N.H., 1984;  
Stockton, N.H., 1984; Lovell Min., N.H., 1984;  
1:25,000 scale  
Winchendon, Mass., 1954; Ashburnham, Mass., 1979;  
Peterborough South, N.H., 1987; Peterborough North, N.H., 1987;  
Greenfield, N.H., 1987; Hillsborough, N.H., 1987;  
Deering, N.H., 1987; Hillsborough Upper Villages, N.H., 1987;  
Hemlock, N.H., 1987; 1:24,000 scale

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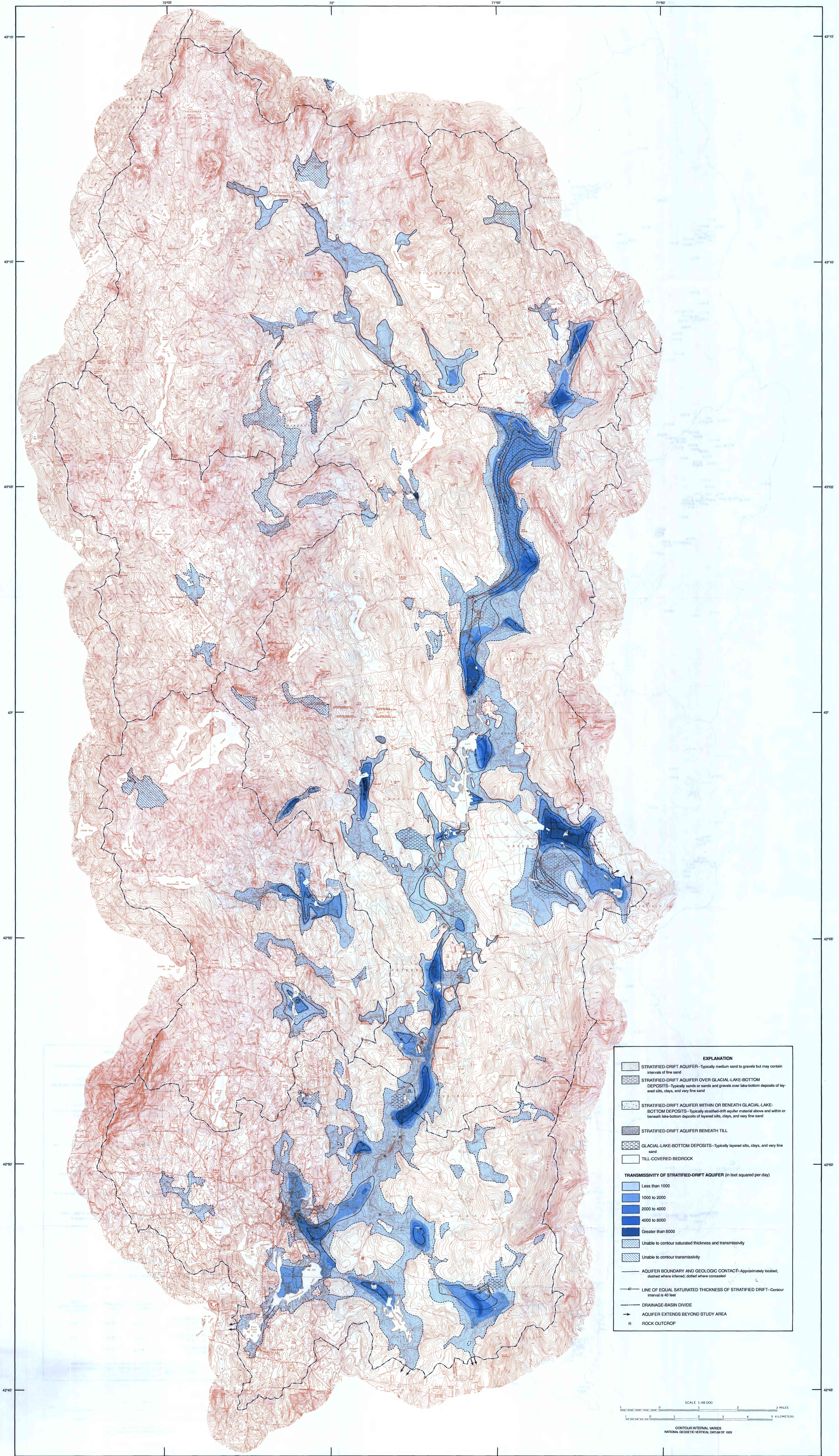
**SATURATED THICKNESS AND TRANSMISSIVITY OF STRATIFIED DRIFT IN THE CONTOOCOOCK RIVER  
BASIN, SOUTH-CENTRAL NEW HAMPSHIRE, NORTHERN SUBBASINS**

Base from U.S. Geological Survey  
Lowell, N.H., 1964; Newport, N.H., 1984;  
Sampson, N.H., 1984; 1:25,000 scale  
Hillsborough Upper Village, N.H., 1987  
Hamilton, N.H., 1987; Hingham, N.H., 1985;  
Concord, N.H., 1985; Bradford, N.H., 1987;  
Warner, N.H., 1987; Webster, N.H., 1987;  
Fremont, N.H., 1987; New London, N.H., 1987;  
Andover, N.H., 1987; Franklin, N.H., 1987;  
Grafton, N.H., 1987; Danbury, N.H., 1987;  
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- STRATIFIED-DRIFT AQUIFER BENEATH TILL
- GLACIAL-LAKE-BOTTOM DEPOSITS—Typically layered silts, clays, and very fine sand
- TILL-COVERED BEDROCK

**TRANSMISSIVITY OF STRATIFIED-DRIFT AQUIFER (in feet squared per day)**

- Less than 1000
- 1000 to 2000
- 2000 to 4000
- 4000 to 8000
- Greater than 8000
- Unable to contour saturated thickness and transmissivity
- Unable to contour transmissivity

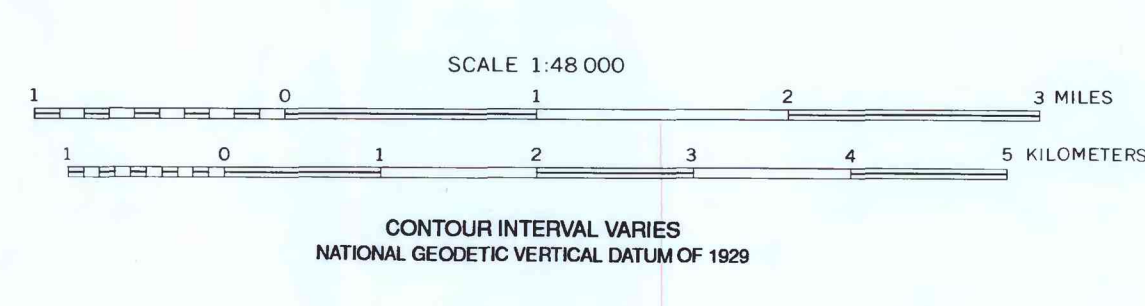
— AQUIFER BOUNDARY AND GEOLOGIC CONTACT—Approximately located; dashed where inferred; dotted where concealed

— LINE OF EQUAL SATURATED THICKNESS OF STRATIFIED DRIFT—Contour interval is 40 feet

— DRAINAGE-BASIN DIVIDE

→ AQUIFER EXTENDS BEYOND STUDY AREA

R ROCK OUTCROP



Base from U.S. Geological Survey  
Monadnock, N.H., 1984; Marlborough, N.H., 1984;  
Sudbury, N.H., 1984; Lovewell Mtn., N.H., 1984;  
1:25,000 scale  
Winchendon, Mass., 1954; Ashburnham, Mass., 1979;  
Peterborough South, N.H., 1987; Peterborough North, N.H., 1987;  
Greenfield, N.H., 1987; Hillsborough, N.H., 1987;  
Deering, N.H., 1987; Hillsborough Upper Village, N.H., 1987;  
Heniker, N.H., 1987; 1:24,000 scale

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