Hydrogeologic Data for the Big River–Mishnock River Stream-Aquifer System, Central Rhode Island

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Abstract

Hydrogeology, ground-water development alternatives, and water quality in the Big–Mishnock stream-aquifer system in central Rhode Island are being investigated as part of a long-term cooperative program between the Rhode Island Water Resources Board and the U.S. Geological Survey to evaluate the ground-water resources throughout Rhode Island. The study area includes the Big River drainage basin and that portion of the Mishnock River drainage basin upstream from the Mishnock River at State Route 3. This report presents geologic data and hydrologic and water-quality data for ground and surface water.

Ground-water data were collected from July 1996 through September 1998 from a network of observation wells consisting of existing wells and wells installed for this study, which provided a broad distribution of data-collection sites throughout the study area. Streambed piezometers were used to obtain differences in head data between surface-water levels and ground-water levels to help evaluate stream-aquifer interactions throughout the study area. The types of data presented include monthly ground-water levels, average daily ground-water withdrawals, drawdown data from aquifer tests, and water-quality data. Historical water-level data from other wells within the study area also are presented in this report.

Surface-water data were obtained from a network consisting of surface-water impoundments, such as ponds and reservoirs, existing and newly established partial-record stream-discharge sites, and synoptic surface-water-quality sites. Water levels were collected monthly from the surface-water impoundments. Stream-discharge measurements were made at partial-record sites to provide measurements of inflow, outflow, and internal flow throughout the study area. Specific conductance was measured monthly at partial-record sites during the study, and also during the fall and spring of 1997 and 1998 at 41 synoptic sites throughout the study area.

General geologic data, such as estimates of depth to bedrock and depth to water table, as well as indications of underlying geologic structure, were obtained from geophysical surveys. Site-specific geologic data were collected during the drilling of observation wells and test holes. These data include depth to bedrock or refusal, depth to water table, and lithologic information.

INTRODUCTION

In 1995, the U.S. Geological Survey (USGS) in cooperation with the Rhode Island Water Resources Board (RIWRB) initiated a hydrogeologic investigation in the Big–Mishnock stream-aquifer system (fig. 1). This investigation was designed to assess the hydrogeologic setting and water resources within the study area. This report contains data collected as part of this study.

This report provides regulators, scientists, and managers with the data needed to understand and evaluate the hydrogeologic factors that affect ground-water development in the Big–Mishnock stream-aquifer system. This report presents data on ground-water and surface-water levels within the study area from July 1996 through September 1998. Descriptions of subsurface conditions, aquifer lithology from samples collected during drilling, stream-discharge measurements, and ground-water-quality data are also included.

The 32-mi^2 study area includes the Big River drainage basin and that portion of the Mishnock River drainage basin upstream from the Mishnock River at State Route 3. The Big River portion is about 29 mi^2, and the Mishnock River portion is about 3 mi^2. Both basins contain stratified-deposit aquifers overlying granite of the Scituate Igneous Suite (Hermes and others, 1994). The study area overlaps Coventry Center, Crompton, Hope Valley, and Slocum topographic quadrangles. The Big River portion is sparsely populated, with most of the population living along the upper reaches of the tributaries to the Big River. Most of the Big River area is woodlands and meadows. The Mishnock River portion is moderately to heavily populated and the predominant features are Mishnock Lake and Mishnock Swamp.

Both areas are sub-basins to the South Branch of the Pawtuxet River Basin. Additional data are in a hydrologic data report for the South Branch of the Pawtuxet River Basin (Gonthier, 1966).

Since the mid-1950s, the USGS has investigated the ground-water conditions and examined the bedrock and surficial geology of the study area shown on the four topographic quadrangles (Coventry Center, Crompton, Hope Valley, and Slocum topographic quadrangles). These studies were published as a series of ground-water maps, bedrock-geology maps, and surficial-geology maps. Ground-water maps have been published for all four quadrangles, bedrock-geology maps have been published for three quadrangles, and three quadrangles have surficial-geology maps (Allen and Johnson, 1959; Bierschenk and Hahn, 1959; Feininger, 1962; Hahn, 1959; Mason and Hahn, 1960; Moore, 1963; Power, 1959; Power, 1957; Quinn, 1963; and Smith, 1956).

In the 1960s, the State proposed to construct a reservoir in the study area to meet growing water needs. This proposal initiated a number of studies in the study area, including a preliminary geotechnical investigation and a feasibility study (Keyes and Associates and Metcalf and Eddy Inc., 1977; United States Army Corps of Engineers, 1979a, 1979b, 1979c, 1980a, 1980b, 1980c; Maguire and Goldberg, Zoino, and Associates, Inc., 1984; A.D. Little, Inc., 1989). The 1989 report by A.D. Little, Inc., states that “the central region is the area of the State with the most critical current water-supply deficit,” which led to further studies of the Big–Mishnock stream-aquifer system.

On behalf of the Rhode Island Water Resources Board and the USGS, the author wishes to thank Scott Michaud, Jennifer Sandorf, Bill Abrahams-Dematte, Dennis Orlowski, and Dr. Anne Veeger from the Department of Geosciences at the University of Rhode Island (URI), who volunteered many hours during the geophysical and water-quality-data collection efforts. Additionally, the author wishes to thank Mr. Timothy Brown, General Manager, Kent County Water Authority, for providing public-water-supply-well withdrawal and aquifer-test data associated with the Mishnock River portion of the study area.

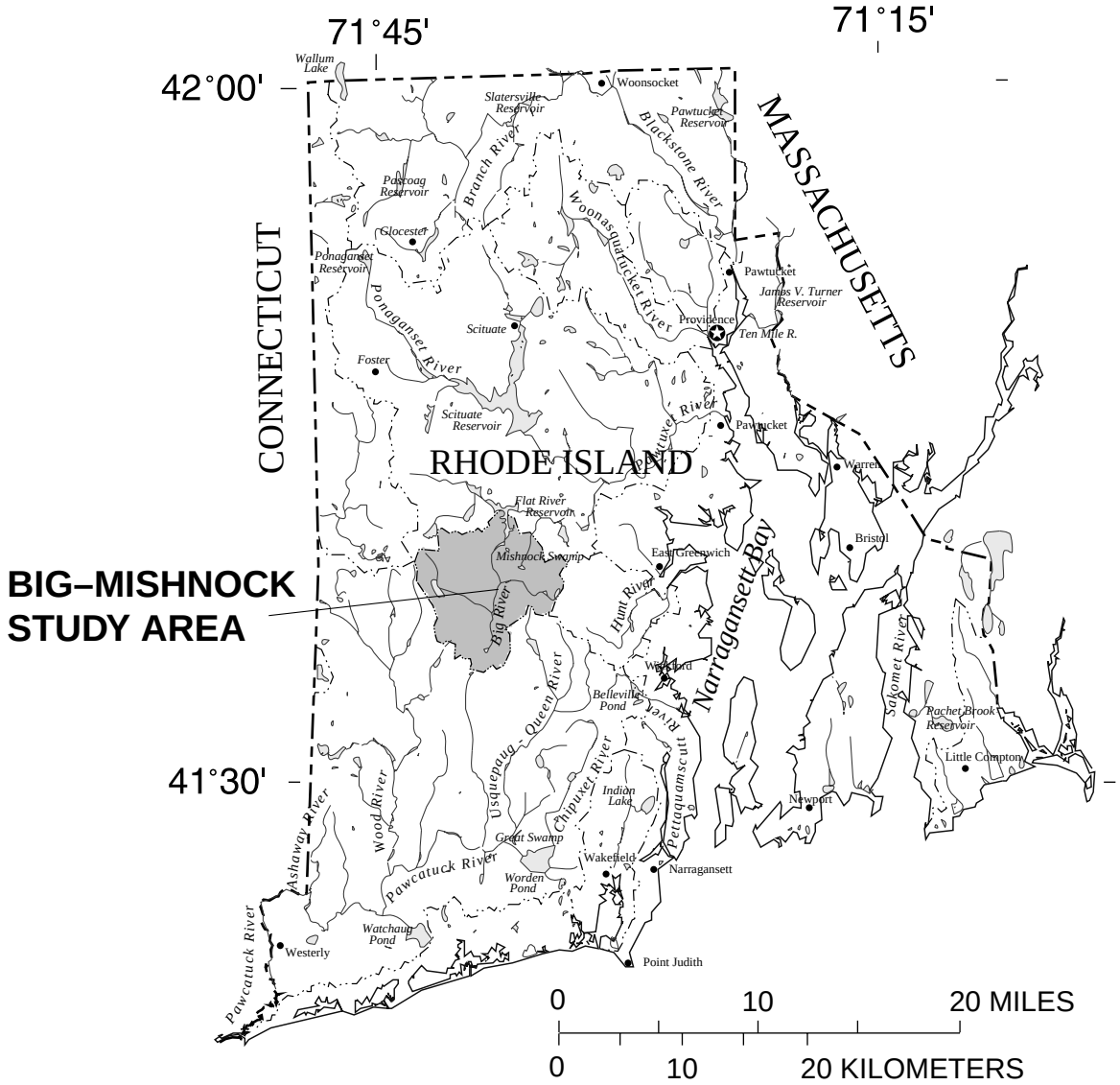

Figure 1. Location of the Big–Mishnock stream-aquifer system, central Rhode Island.

SITE-IDENTIFICATION NUMBERS

All data-collection sites associated with this study, including wells, piezometers, ponds, reservoirs, and streams were assigned identification numbers (pl. 1). The USGS uses two methods to assign identification numbers to ground-water sites and surface-water sites; both are based on location. The "latitude-longitude" system is used for ground-water sites, such as wells, springs, piezometers, and for pond and reservoir sites. In addition, each ground-water site is assigned a local well number from the "well-numbering" system. Surface-water sites are assigned a number based on the "downstream-order" system.

The 15-digit identification numbers for ground-water, pond, or reservoir sites are assigned according to the latitude and longitude at the site. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits (assigned sequentially) distinguish between data-collection sites within a 1-second grid. Once assigned, this site-identification number no longer has locational significance. If an error was made in the initial determination of latitude or longitude, the station will retain its original identification number, and the corrected site latitude and longitude will be listed within the tables in the report.

The USGS in Rhode Island assigns a local well number and a two-letter code that is based on the city or town in which the site is located to each ground-water site. The two-letter codes used in this investigation, CO (Coventry), EX (Exeter), and WG (West Greenwich), are followed by W, for well, and a sequential number.

Since October 1, 1950, USGS publications have listed surface-water sites in a downstream direction along the main stream. A site on a tributary entering upstream from a main stream site is listed before that site. A site on a tributary that enters between two main stream locations is listed between them. A similar order is followed in listing sites on first rank, second rank, and other ranks of tributaries. This downstream-order system of identification shows which sites are on tributaries between any two sites and the rank of the tributary on which each site is situated.

In assigning site-identification numbers to surface-water sites, no distinction is made between continuous-record sites and other types of sites such as partial-record sites; therefore, the site number for a continuous-record site indicates downstream-order position in a list made up of all types of sites. Gaps are left in the series of numbers to allow for new sites that may be established; hence, the numbers are not always consecutive. The first two digits indicate the Part number (formerly used in USGS Water-Supply Papers to designate major river systems) and the last six or more digits indicate the downstream order within the Part. For example, in the site number 01115630, "01" is the Part number for the "North Atlantic Slope Basins" and the "115630" is the downstream order number.

HYDROLOGIC DATA

The hydrologic data are divided into ground-water data and surface-water data. Within the stream-aquifer system there is usually continual interaction between ground water and surface water, as in the relation between decreased streamflow and increased withdrawals of ground water from wells. USGS data networks were established for the collection of ground-water and surface-water data, including water-quality data. Sites where data had been collected prior to this investigation were evaluated when developing the study-area network. New sites were added to improve areal coverage and provide information in areas where there were little or no existing data.

Ground Water

Ground-water levels, ground-water withdrawals, and aquifer-test data were monitored, along with water-quality data, such as chemical analyses and physical properties of ground-water analyzed in the field and in the laboratory. Ground-water quality data were collected from 10 sites by the URI Department of Geosciences in 1997, from six aquifer-test sites by the USGS in 1998 and 1999, from eight exploratory test wells by the USGS between 1996 and 1998, and from 12 seasonal sampling sites by the USGS in May and November 1999.

Ground-Water Levels

Ground-water level data were collected during the course of this study, and historic water-level data were compiled from over 375 ground-water sites throughout the study area (table 1, at back of report). The initial data network established for this study in July 1996 consisted of 21 ground-water sites measured monthly from 2 existing wells and 19 wells installed for this study. The existing wells included one dug well (WGW 211) that was originally measured for the South Branch of the Pawtuxet River study (Gonthier, 1966) and one well (WGW 305) installed by the Rhode Island Department of Environmental Management as part of their Individual Sewage Disposal System well network. Between the summer of 1996 and summer of 1997, the data-collection network was expanded to a total of 62 sites with the addition of 3 more observation wells, 5 exploratory test wells drilled in remote areas, 18 aquifer-test observation wells, and 15 streambed piezometers. Six of the 60 wells installed for the Big–Mishnock study were 3 pairs of nested observation wells that included one shallow well screened just below the water table and a deep well screened near the bottom of the aquifer to check for possible vertical gradients.

Additional test holes were drilled and wells were installed between fall 1997 and spring 2000. These sites consisted of three 8-inch aquifer-test wells, three 10-inch aquifer-test wells, nine exploratory wells, and thirteen 2-inch polyvinyl chloride (PVC) aquifer-test observation wells. During the course of this study, 88 wells were installed from the 105 borings. All wells were pumped to develop the aquifer surrounding the well screens to assure a good hydrologic connection with the aquifer. Short duration withdrawal and recovery tests were made to insure that each well was responding to aquifer stresses.

Observation-well water-level measurements were made by USGS personnel with an electric tape or a chalked steel tape. The electric and steel tapes are marked with gradations in hundredths of a foot and are generally considered accurate to 0.01 ft. Water-level data were collected between October 1996 and October 1998 (table 2, at back of report).

To provide more data about the interaction between ground water and surface water, piezometers were installed at 15 stream and pond sites across the study area. The 15 piezometers consist of a screened drive point threaded to 1-inch diameter steel pipe that was driven into the stream or pond bed with a slide hammer. Each piezometer was developed with a diaphragm pump and polyethylene tubing. Water-level measurements were taken inside of each of the piezometers and in the stream or pond immediately adjacent to the piezometer. The difference between these two water levels indicates the direction of water flow in the aquifer at the time of the measurement. If the water level inside the piezometer is above the water level outside the piezometer, then that area of the stream is receiving ground-water discharge, referred to as a gaining section of stream. If the water level inside the piezometer is lower than the outside water level, then water is moving into the aquifer from the stream channel, referred to as a losing section of stream. Water-level data were collected between May 1997 and August 1998 at these piezometers (table 3, at back of report).

Historical water-level data from wells inventoried between 1938 and 1996 (table 4, at back of report) include a long-term monitoring well, WGW 211, that was measured monthly from September 1954 until December 1963. Data collection was reestablished at well WGW 211 during this study.

Ground-Water Withdrawals

Data associated with withdrawal of ground water from wells in the stratified sand and gravel aquifer in the Mishnock portion of the study area were obtained from Kent County Water Authority (KCWA) for the period January 1995 through December 1999. Ground-water withdrawals were from two KCWA wells designated as Mishnock wells 1 and 2. Withdrawal data from these public-supply wells (table 5, at back of report) indicate the only known large hydraulic stresses to the ground-water-flow system in the study area.

Aquifer Tests

Aquifer tests were performed at six sites (pl. 1) to determine the hydraulic properties of the aquifer, such as vertical and horizontal hydraulic conductivity and transmissivity in the vicinity of each test well. All aquifer tests were performed on eight- or ten-inch test wells that were pumped continually for 48 hours at rates ranging from 325 to 900 gal/min. Several

observation wells were installed at different radial distances and developed at the six aquifer test sites to monitor ground-water responses to pumping. Drawdown data from these aquifer tests are given in tables 6–11 (at back of report).

Water Quality

Forty-eight ground-water-quality samples were collected from 31 wells during 3 sampling periods; 10 wells were sampled by the URI Department of Geosciences and the USGS in February and March 1997; 14 wells were sampled by the USGS and analyzed by the Rhode Island Department of Health (RIDOH) laboratory; and 12 wells were sampled by the USGS in May and November 1999, and analyzed at the USGS National Water Quality Laboratory. In all of the samplings, at least three well volumes were purged from each well. Standard field parameters, such as specific conductance, temperature, pH, and dissolved oxygen, were measured and checked for stability prior to the collection of the samples (table 12, at back of report).

USGS protocols for ground-water sampling (Wood, 1976) were used when the ground-water samples were collected from the 12 network-observation wells during May and November of 1999 (table 12). Samples were filtered, treated, and packaged for shipment to the USGS National Water-Quality Laboratory (NWQL) per analysis requirements, where they were analyzed for major dissolved constituents. Duplicate samples were taken during each sample period and submitted for analysis to assure quality control.

A total of eight exploratory wells and six aquifer test wells were sampled by the USGS and analyzed by the RIDOH Laboratory, an EPA approved lab (table 12). Aquifer-test samples were collected after 48 hours of continuous pumping and were analyzed by the RIDOH for nitrate, nitrite, chloride, iron, and manganese, as well as coliform bacteria and radiological occurrences (gross alpha and beta).

In February and March 1997, personnel from the URI Department of Geosciences, in cooperation with the USGS and the RIWRB, sampled and analyzed water from 10 wells in the study area. The samples were extracted by using a submersible pump after three well volumes had been purged from the well. If specific conductance, pH, and temperature, which were monitored during the purging process, were stable at the conclusion of three well volumes, then a sample was collected. Otherwise, pumping continued until the parameters stabilized. Duplicate and split samples also were taken for analysis. The samples were analyzed for major dissolved constituents (table 12).

Surface Water

Changes in water levels in lakes, ponds, or reservoirs, and changes in stream discharge in a river or brook were monitored. Water-quantity data were collected at 8 surface-water impoundment sites and 10 partial-record stream-discharge sites. Surface-water-quality data were collected at 51 river and brook sites.

Water levels were measured in eight ponds and reservoirs (table 13, at back of report). Staff gages were installed in six ponds. A wire-weight gage was installed on a bridge over the Flat River Reservoir and a slope gage was installed in one pond in an abandoned gravel pit. Measuring points at these gages were surveyed to mean sea level.

Stream-discharge measurements were made at 10 partial-record sites in the study area from July 1996 through October 1998 (table 14, at back of report). All measurements were made by USGS personnel who used standard procedures described in Rantz and others (1982). Additional surface-water data for the study area can be found in Gonthier (1966).

Specific-conductance data were collected monthly at each of the 10 partial-record sites during the stream-discharge measurement (table 14). Additionally, during April and October of 1997 and 1998, 4 synoptic studies were made to measure temperature and specific conductance at 41 miscellaneous sites across the study area (pl. 1). These synoptic runs were made during periods of expected base flow, when there was no precipitation for at least 5 consecutive days prior to the measurement (table 15, at back of report).

GEOLOGIC DATA

The geologic data acquired during this study are primarily the physical test-hole samples that were collected during drilling operations. These samples were examined, described, and logged to provide a better understanding of the subsurface geologic framework that can affect the flow of ground water.

Geophysical methods were used to investigate aquifer geometries and structure. Seismic refraction, ground-penetrating radar (pl. 1), and borehole geophysical techniques were used to estimate depth to bedrock, depth to water table, and structure of the unconsolidated materials. The geophysical data were used to locate exploratory and aquifer-test wells.

Lithologic logs were compiled from information on cuttings gathered during the drilling (table 16, at back of report). Four well-drilling methods were used during the study: hollow-stem auger, drive and wash, cable tool, and air rotary. A total of 41 test holes were drilled with the hollow-stem auger method which resulted in the installation of forty 2-inch diameter, PVC-cased and -screened observation wells. The drilling of one test hole reached refusal before reaching the water table and, therefore, could not be used as an observation well.

Of 30 test holes that were drilled with the drive-and-wash method, 14 observation wells were installed. In the drive-and-wash method, steel casing is driven into the formation a given distance (usually 5–7 ft) and the material in the casing is washed out from the top of the casing. As the material flows from the casing top, it is caught, examined, bagged, and logged. These holes were drilled to locate possible aquifer-test well sites, to explore an area with limited information available, or to determine depth to bedrock in areas where the use of geophysical methods was limited.

Three 8-inch aquifer-test wells were installed by the use of the cable-tool drilling method. These wells were finished with an 8-inch-diameter steel casing and 20 ft of stainless-steel screen. In cable-tool drilling, the casing is driven into the ground and the material is removed from inside the casing by a bailer or sand pump and is then logged. If the material is too compact or too large to fit inside the bailer, a large chisel bit is lowered into the casing at the end of the cable and the material is pulverized by drilling before removal with the bailer. Occasionally material in front of the casing must be drilled in order to advance the casing.

The air-rotary method was used to install three 10-inch aquifer-test wells and thirteen 2-inch PVC aquifer-test-observation wells. Each aquifer-test well was finished with a 10-inch-diameter steel-casing and 20 ft of stainless-steel screen. In air-rotary drilling, the casing is advanced and the material is removed from inside the casing with high-pressure compressed air that is expelled from the bottom of the drill stem. The material is collected through a cyclonic decelerator, after which it is examined and logged. When the casing encounters compact material or rocks, an air hammer at the end of the drill stem is used to break up the formation.

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DEFINITION OF TERMS

The following are definitions of selected technical terms as they are used in this report; they are not necessarily the only valid definitions for these terms.

Aquifer: A geologic formation, group of formations, or part of a formation that contains enough saturated permeable material to yield significant quantities of water to wells and springs.

Aquifer test: A controlled field experiment wherein the effect of pumping a well is measured in the pumped well and in the observation wells to determine hydraulic properties of an aquifer.

Bedrock: The solid rock, commonly called “ledge” that forms the Earth’s crust.

Discharge: The volume of water that passes a given point within a given period of time.

Drawdown: The decline in water level in a well after pumping begins. It is the difference between the water level in a well after pumping begins and the water level as it would have been if the well had not been pumped.

Ground water: Water in the ground that is in the zone of saturation.

Hydraulic conductivity: The rate of flow of water through a unit area under a unit change in head per unit distance, at the prevailing temperature.

Lithologic log: Description of geologic material collected during drilling of wells or test holes.

pH: Symbol denoting the logarithm to base 10 of hydrogen-ion concentration in a solution. pH values range from 0 to 14. The lower the value, the more hydrogen ions the sample contains and the more acidic the solution. A value of 7.0 is neutral; values greater than 7.0 indicate an alkaline solution; values less than 7.0 indicate an acidic solution.

Refusal: the inability to advance the drilling stem.

Specific conductance: A measure of the ability of water to conduct an electrical current, expressed in microsiemens per centimeter at 25˚Celsius. Specific conductance is related to the type and concentration of ions in solution and can be used for estimation of the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens per centimeter at 25˚Celsius). This relationship varies depending on the composition of the dissolved solids.

Stratified deposit: Unconsolidated sediment that has been sorted by grain size by glacial meltwater and deposited in layers or strata.

Transmissivity: The product of the hydraulic conductivity and the saturated thickness.

TABLES 1–16

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island

[Site locations are shown on plate 1. Latitude and longitude are in degrees, minutes, and seconds. **Well No.:** COW, Coventry well; EXW, Exeter well; **depth:** Depths are in feet below land surface. **Casing finish:** G, gravel wall with commercial screen; O, open end; P, perforated or slotted; S, screened; Altitude is in feet above land surface. **Site use:** O, observation; T, test; U, unused; W, water withdrawal. **Water use:** H, domestic; N, industrial; P, public SDGL, sand and gravel; SDST, sand and silt; SGVC, sand, gravel, and clay; STCL, silt and clay; TILL, till. **Depth to bedrock:** B, bedrock; R, refusal.

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
COW 34	41 40 22	71 38 14	414022071381401	1947	C	--	80	6	X	--	--
COW 51	41 40 02	71 39 59	414002071395901	--	D	--	15.4	30	--	--	--
COW 59	41 39 55	71 34 13	413955071341301	--	C	--	60	6	X	--	--
COW 61	41 40 51	71 35 22	414051071352201	--	C	--	180	--	O	--	--
COW 64	41 40 21	71 36 34	414021071363401	1947	C	--	45	--	O	--	--
COW 65	41 40 31	71 36 46	414031071364601	1950	C	--	80	6	O	--	--
COW 66	41 40 38	71 36 49	414038071364901	1948	C	--	65	--	X	--	--
COW 77	41 40 04	71 34 10	414004071341001	1945	C	--	101	8	X	--	--
COW 93	41 39 53	71 36 06	413953071360601	1949	D	--	12	30	O	--	--
COW 94	41 40 08	71 36 03	414008071360301	--	V	--	20	1.5	T	--	--
COW 95	41 40 02	71 36 10	414002071361001	--	D	--	15	30	O	--	--
COW 96	41 39 48	71 36 10	413948071361001	--	V	--	12	1.25	T	--	--
COW 98	41 39 49	71 37 24	413949071372401	1941	D	--	15.4	30	O	--	--
COW 99	41 39 55	71 37 17	413955071371701	--	D	--	27	30	--	--	--
COW 100	41 39 57	71 37 13	413957071371301	--	D	--	18	--	W	--	--
COW 101	41 40 03	71 37 27	414003071372701	--	D	--	22	30	--	--	--
COW 102	41 39 59	71 36 49	413959071364901	--	D	--	20	30	O	--	--
COW 104	41 40 10	71 36 08	414010071360801	--	D	--	30	30	W	--	--
COW 130	41 40 24	71 35 44	414024071354401	--	D	--	9.8	30	O	--	--
COW 136	41 40 03	71 36 57	414003071365701	1951	C	--	130	--	X	--	--
COW 154	41 40 02	71 34 16	414002071341601	1932	D	--	15.5	30	O	--	--
COW 158	41 40 00	71 36 04	414000071360401	1950	C	--	125	6	O	--	--
COW 205	41 40 35	71 39 08	414035071390801	--	D	--	17.9	30	O	--	--
COW 206	41 40 33	71 38 59	414033071385901	1950	C	--	110	8	X	--	--
COW 207	41 40 33	71 38 51	414033071385101	1949	C	--	225	6	X	--	--
COW 208	41 40 35	71 38 49	414035071384901	1949	C	--	150	6	X	--	--
COW 209	41 40 23	71 38 21	414023071382101	--	D	--	24	18	W	--	--
COW 211	41 40 07	71 37 36	414007071373601	1948	C	--	60	6	X	--	--
COW 212	41 40 06	71 37 37	414006071373701	--	D	--	13.6	30	W	--	--
COW 216	41 40 37	71 40 00	414037071400001	--	D	--	20.8	30	W	--	--
COW 217	41 40 26	71 40 01	414026071400101	--	D	--	13.9	30	O	--	--
COW 218	41 40 11	71 40 00	414011071400001	--	D	--	14.7	30	W	--	--
COW 219	41 39 55	71 37 41	413955071374101	1953	D	--	23.2	30	O	--	--
COW 220	41 39 48	71 37 59	413948071375901	1950	D	--	18.9	24	W	--	--
COW 221	41 39 45	71 37 47	413945071374701	--	D	--	9	30	O	--	--

WGW, West Greenwich well. **Method:** A, air rotary; B, auger; C, cable tool; D, dug; J, jetted; P, air percussion; V, driven; W, drive and wash. **Hole and well** T, sandpoint; W, walled or shored; X, open hole. **Screened interval:** Bottom of open interval may not equal the finished well depth. **Land surface altitude:** supply; S, stock; U, unused. **Aquifer lithology:** Principal water-bearing material: CLAY, clay; GLCL, glacial (undifferentiated); GRVL, gravel; SAND, sand; **Log:** G, geologist log of lithology present in table 16. **Water quality:** Chemical analyses available in table 12. No., number; --, no data available]

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
COW 34	297	W	H	1.5	--	--	SAND	B20	--	--
COW 51	555	W	H	--	--	--	TILL	R15.4	--	--
COW 59	340	W	N	--	--	--	--	B40	--	--
COW 61	275	W	H	12	--	--	SDGL	--	--	--
COW 64	250	W	H	2	--	--	SDGL	--	--	--
COW 65	292	W	H	6	--	--	TILL	R80	--	--
COW 66	300	W	H	2.5	--	--	TILL	B22	--	--
COW 77	315	W	H	--	--	--	--	B35	--	--
COW 93	258	W	H	--	--	--	SAND	--	--	--
COW 94	259	W	H	--	--	--	SDGL	--	--	--
COW 95	250	W	H	--	--	--	SAND	--	--	--
COW 96	257	W	H	--	--	--	SAND	--	--	--
COW 98	260	W	H	--	--	--	SDGL	--	--	--
COW 99	272	W	H	--	--	--	SDGL	--	--	--
COW 100	262	W	H	--	--	--	SDGL	B18	--	--
COW 101	290	W	H	--	--	--	TILL	B19	--	--
COW 102	265	W	H	--	--	--	SDGL	--	--	--
COW 104	260	W	H	--	--	--	SDGL	--	--	--
COW 130	255	W	H	--	--	--	SDGL	--	--	--
COW 136	262	W	H	4	--	--	SAND	B50	--	--
COW 154	315	W	H	--	--	--	SDGL	--	--	--
COW 158	258	W	N	--	--	--	SDGL	--	--	--
COW 205	440	W	H	2	--	--	TILL	R17.9	--	--
COW 206	470	W	H	5	--	--	TILL	B10	--	--
COW 207	458	W	H	2.5	--	--	TILL	B10	--	--
COW 208	470	W	H	1.5	--	--	TILL	B8	--	--
COW 209	298	W	S	--	--	--	SDGL	--	--	--
COW 211	270	W	H	5	--	--	SDGL	B17	--	--
COW 212	268.75	O	U	--	--	--	SAND	--	--	--
COW 216	535	W	H	--	--	--	TILL	R20.8	--	--
COW 217	545	W	H	--	--	--	TILL	R13.9	--	--
COW 218	543	W	H	--	--	--	TILL	R14.7	--	--
COW 219	275	W	H	--	--	--	SDGL	B23.2	--	--
COW 220	280	W	H	4	--	--	SDGL	B14.9	--	--
COW 221	260	W	H	--	--	--	SAND	--	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
COW 222	41 39 36	71 37 37	413936071373701	--	D	--	15	30	O	--	--
COW 228	41 40 46	71 38 09	414046071380901	--	D	--	15.3	30	O	--	--
COW 237	41 40 04	71 40 02	414004071400201	--	D	--	22	30	W	--	--
COW 241	41 39 32	71 39 38	413932071393801	1948	D	--	16.2	30	O	--	--
COW 245	41 40 07	71 38 26	414007071382601	--	D	--	20	--	W	--	--
COW 246	41 40 18	71 38 53	414018071385301	--	D	--	12	30	W	--	--
COW 395	41 40 04	71 36 38	414004071363801	1956	C	--	120	--	X	--	--
COW 422	41 40 21	71 35 47	414021071354701	1962	B	--	72	4	O	--	--
COW 423	41 40 13	71 35 59	414013071355901	1962	B	--	102	4	O	--	--
COW 424	41 40 23	71 36 28	414023071362801	1962	B	--	74	--	X	--	--
COW 425	41 40 01	71 36 46	414001071364601	1962	B	--	76	--	X	--	--
COW 426	41 39 45	71 36 10	413945071361001	1962	B	--	67	--	--	--	--
COW 435	41 39 44	71 35 59	413944071355901	1964	J	--	57	2.5	O	--	--
COW 436	41 39 43	71 36 00	413943071360001	1964	J	--	60	2.5	S	50	60
COW 437	41 39 47	71 35 58	413947071355801	1964	J	91	80	2.5	O	--	--
COW 438	41 39 46	71 35 59	413946071355901	1964	J	80	74	2.5	S	--	--
COW 439	41 39 47	71 35 54	413947071355401	1964	J	--	88	2.5	O	--	--
COW 442	41 39 43	71 35 57	413943071355701	1964	J	78	76.6	2.5	O	--	--
COW 443	41 39 42	71 36 01	413942071360102	1964	J	65	65	2.5	O	--	--
COW 446	41 39 47	71 36 01	413947071360101	1964	J	--	69	2.5	O	--	--
COW 447	41 39 50	71 36 01	413950071360101	1964	J	--	73	2.5	O	--	--
COW 448	41 39 43	71 35 57	413943071355702	1964	C	87	80	8	S	60	80
COW 449	41 39 44	71 35 52	413944071355201	1964	J	--	104	2.5	O	--	--
COW 450	41 39 45	71 35 52	413945071355201	1964	J	--	107	2.5	O	--	--
COW 451	41 39 46	71 35 50	413946071355001	1964	J	--	98	2.5	O	--	--
COW 452	41 39 42	71 35 50	413942071355001	1964	J	--	103	2.5	O	--	--
COW 453	41 39 46	71 36 03	413946071360301	1964	J	89	80	2.5	S	70	80
COW 454	41 39 45	71 36 02	413945071360201	1964	J	--	92	2.5	O	--	--
COW 455	41 39 42	71 35 51	413942071355101	1964	J	--	102	2.5	O	--	--
COW 456	41 39 41	71 36 05	413941071360501	1964	J	71	55	2.5	O	--	--
COW 457	41 39 40	71 36 04	413940071360401	1964	J	75	70	2.5	O	--	--
COW 459	41 39 42	71 36 04	413942071360401	1964	J	81	75	2.5	O	--	--
COW 460	41 39 42	71 36 01	413942071360101	--	--	--	75	--	--	55	75
COW 460	41 39 42	71 36 01	413942071360101	1964	C	--	75	8	S	55	65
COW 461	41 39 42	71 36 01	413942071360103	1965	C	75	75	18	S	55	75
COW 462	41 39 43	71 35 57	413943071355703	1966	C	89	88	18	S	63	88
COW 467	41 39 41	71 35 28	413941071352801	1994	W	125	110	2.5	S	100	110
COW 468	41 40 07	71 35 34	414007071353401	1994	W	147	134	2.5	S	124	134
COW 469	41 39 56	71 35 30	413956071353001	1994	W	151	146	2.5	S	136	146
COW 470	41 40 02	71 35 29	414002071352901	1994	W	--	124	2.5	S	119	124

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
COW 222	263	W	H	--	--	--	SDGL	--	--	--
COW 228	390	W	H	--	--	--	TILL	R15.3	--	--
COW 237	554	W	H	--	--	--	TILL	R22	--	--
COW 241	563	W	H	--	--	--	TILL	R16.2	--	--
COW 245	285	W	H	--	--	--	SAND	--	--	--
COW 246	385	W	H	--	--	--	TILL	R12	--	--
COW 395	255	W	H	1.5	--	--	SAND	B75	--	--
COW 422	255	T	U	--	--	--	SAND	--	--	--
COW 423	259	T	U	--	--	--	SAND	--	--	--
COW 424	260	T	U	--	--	--	SDGL	--	--	--
COW 425	265	T	U	--	--	--	SDST	--	--	--
COW 426	255	T	U	--	--	--	SDST	--	--	--
COW 435	253	O	U	--	--	--	SDGL	B57	--	--
COW 436	253	O	U	20	--	--	SDGL	--	--	--
COW 437	252	O	U	55	--	--	SDGL	--	--	--
COW 438	252	O	U	30	--	--	SDGL	--	--	--
COW 439	247	O	U	--	--	--	SGVC	B88	--	--
COW 442	250	O	U	60	--	--	SDGL	--	--	--
COW 443	251	T	U	80	--	--	SDGL	--	--	--
COW 446	255	O	U	--	--	--	SDGL	--	--	--
COW 447	255	T	U	--	--	--	SDGL	--	--	--
COW 448	252	T	U	--	--	--	SDGL	--	--	--
COW 449	251	T	U	--	--	--	SDGL	--	--	--
COW 450	250	T	U	--	--	--	STCL	B107	--	--
COW 451	250	T	U	--	--	--	SDCL	--	--	--
COW 452	255	T	U	--	--	--	STCL	--	--	--
COW 453	255	T	U	20	--	--	SDGL	--	--	--
COW 454	255	T	U	--	--	--	STCL	--	--	--
COW 455	253	T	U	--	--	--	STCL	--	--	--
COW 456	255	T	U	30	--	--	SDGL	--	--	--
COW 457	255	T	U	--	--	--	SDGL	--	--	--
COW 459	255	T	U	20	--	--	SDGL	--	--	--
COW 460	251	T	U	--	--	--	--	--	--	--
COW 460	251	T	U	--	--	--	GRVL	--	--	--
COW 461	251	W	P	1,080	36	48	SDGL	--	--	--
COW 462	252	W	P	830	20.5	48	SDGL	--	--	--
COW 467	248	T	U	--	--	--	SGVC	--	--	--
COW 468	249	T	U	37.6	--	--	SGVC	--	--	--
COW 469	251	T	U	--	--	--	SGVC	--	--	--
COW 470	249	T	U	8	--	--	SDCL	--	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
COW 471	41 39 52	71 35 59	413952071355901	1994	W	103	95	2.5	S	90	95
COW 472	41 39 50	71 35 59	413950071355901	1994	W	--	92	2.5	S	--	--
COW 473	41 39 36	71 35 44	413936071354401	1994	W	127	120	2.5	S	115	120
COW 474	41 39 37	71 35 36	413937071353601	1994	W	111	110	2.5	S	100	110
COW 475	41 39 37	71 35 36	413937071353602	1994	W	117	112	2.5	S	102	112
COW 476	41 39 37	71 35 34	413937071353401	1994	W	116	114	2.5	S	104	114
COW 477	41 39 37	71 35 36	413937071353603	1995	W	--	110	8	S	95	110
COW 478	41 40 43	71 34 52	414043071345201	1997	V	--	4.2	1	S	2.95	4.2
COW 479	41 39 37	71 37 15	413937071371501	1998	W	63	63	2.5	O	--	--
COW 480	41 39 45	71 35 37	413945071353701	1994	W	99	95	2.5	S	85	95
COW 481	41 39 37	71 37 42	413937071374201	1997	V	--	3.61	1	S	2.36	3.61
EXW 96	41 35 06	71 37 08	413506071370801	1952	C	--	546	6	X	--	--
EXW 189	41 35 22	71 38 20	413522071382002	1949	C	--	150	6	X	--	--
EXW 190	41 35 22	71 38 20	413522071382001	--	C	--	633	6	X	--	--
EXW 191	41 35 26	71 38 08	413526071380801	1951	C	--	125	6	X	--	--
EXW 192	41 35 49	71 39 14	413549071391401	--	D	25	25	30	W	--	--
EXW 193	41 35 56	71 38 50	413556071385001	--	D	--	14	30	Z	--	--
EXW 194	41 35 56	71 38 45	413556071384501	--	D	--	20.2	30	W	--	--
EXW 195	41 36 00	71 38 42	413600071384201	--	D	--	32.6	30	W	--	--
EXW 196	41 35 59	71 38 24	413559071382401	--	D	--	21.8	30	W	--	--
EXW 197	41 35 56	71 38 05	413556071380501	1920	C	--	75	2	X	--	--
EXW 340	41 36 02	71 36 42	413602071364201	--	D	--	35.3	36	O	--	--
EXW 341	41 35 33	71 36 59	413533071365901	--	D	--	21.1	36	W	--	--
EXW 342	41 35 35	71 36 58	413535071365801	--	D	--	12.4	24	W	--	--
EXW 343	41 35 42	71 37 24	413542071372401	--	D	--	13.6	48	W	--	--
EXW 344	41 35 38	71 37 24	413538071372401	--	D	--	14.1	30	W	--	--
EXW 345	41 35 17	71 37 07	413517071370701	--	D	--	12.2	36	O	--	--
WGW 1	41 36 46	71 38 14	413646071381401	1935	C	--	220	6	X	--	--
WGW 5	41 38 59	71 39 44	413859071394401	--	D	--	13.8	30	X	--	--
WGW 7	41 38 26	71 40 13	413826071401301	--	V	--	29	2	--	--	--
WGW 13	41 39 34	71 36 14	413934071361401	--	V	--	22	2.5	Z	--	--
WGW 14	41 38 58	71 34 31	413858071343101	--	D	--	19	24	O	--	--
WGW 15	41 39 15	71 33 17	413915071331701	--	D	--	36	30	W	--	--
WGW 16	41 39 16	71 33 44	413916071334401	--	V	--	47	1.75	S	--	--
WGW 17	41 39 07	71 34 04	413907071340401	--	D	--	20	20	O	--	--
WGW 18	41 39 14	71 34 35	413914071343501	--	C	--	98	6	O	--	--
WGW 19	41 39 35	71 34 30	413935071343001	1947	C	--	45	6	X	--	--
WGW 20	41 37 33	71 34 03	413733071340301	--	C	--	465	6	X	--	--
WGW 21	41 39 06	71 35 32	413906071353201	1951	V	--	30	2.5	O	--	--
WGW 22	41 39 07	71 35 13	413907071351301	1946	D	--	12	36	O	--	--

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
COW 471	251	T	U	--	--	--	SDGL	--	--	--
COW 472	252	T	U	21	--	--	SDGL	--	--	--
COW 473	256	T	U	6	--	--	SDGL	--	--	--
COW 474	253	T	U	52	--	--	SGVC	--	--	--
COW 475	253	T	U	--	--	--	SGVC	--	--	--
COW 476	252	T	U	5	--	--	SGVC	--	--	--
COW 477	253	T	U	295	8.7	48	SDGL	--	--	--
COW 478	240.58	O	--	--	--	--	--	--	--	--
COW 479	249.31	T	U	--	--	--	SDST	--	G	--
COW 480	254	T	U	--	--	--	SGVC	--	--	--
COW 481	251.9	O	--	--	--	--	--	--	--	--
EXW 96	410	W	P	--	--	--	CLAY	B12	--	--
EXW 189	450	W	H	--	--	--	TILL	B10	--	--
EXW 190	450	W	H	--	--	--	TILL	B10	--	--
EXW 191	375	W	H	--	--	--	TILL	B5	--	--
EXW 192	520	W	H	--	--	--	TILL	B25	--	--
EXW 193	510	W	H	--	--	--	TILL	R14	--	--
EXW 194	525	U	U	--	--	--	TILL	R20.2	--	--
EXW 195	535	U	U	--	--	--	TILL	B15	--	--
EXW 196	470	W	H	--	--	--	TILL	R21.8	--	--
EXW 197	408	W	H	--	--	--	TILL	B50	--	--
EXW 340	380	W	H	--	--	--	SDGL	--	--	--
EXW 341	380	W	H	--	--	--	SDGL	--	--	--
EXW 342	375	U	U	--	--	--	SDGL	--	--	--
EXW 343	340	W	H	--	--	--	SDGL	--	--	--
EXW 344	340	W	H	--	--	--	SAND	B1.5	--	--
EXW 345	378	W	H	--	--	--	TILL	R12.2	--	--
WGW 1	475	W	P	--	--	--	TILL	B28	--	--
WGW 5	535	W	H	--	--	--	TILL	B13.8	--	--
WGW 7	403	W	H	--	--	--	GLCL	--	--	--
WGW 13	272	U	U	--	--	--	SAND	--	--	--
WGW 14	300	W	H	--	--	--	SAND	--	--	--
WGW 15	335	W	H	--	--	--	SDGL	--	--	--
WGW 16	340	W	H	--	--	--	SDGL	--	--	--
WGW 17	320	W	H	--	--	--	SAND	--	--	--
WGW 18	345	W	H	--	--	--	SDGL	--	--	--
WGW 19	340	W	H	--	--	--	SDGL	B35	--	--
WGW 20	472	W	H	--	--	--	--	B56	--	--
WGW 21	280	W	H	--	--	--	SAND	--	--	--
WGW 22	258	W	H	--	--	--	SAND	--	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 23	41 39 21	71 35 29	413921071352901	--	V	--	15	1.25	--	--	--
WGW 24	41 39 19	71 35 21	413919071352101	--	V	--	24	1.75	--	--	--
WGW 25	41 39 18	71 34 37	413918071343701	1942	C	--	100	6	X	--	--
WGW 26	41 39 19	71 34 40	413919071344001	--	C	--	174	6	X	--	--
WGW 27	41 39 15	71 34 36	413915071343601	1951	C	--	144	6	X	--	--
WGW 28	41 39 15	71 34 40	413915071344001	--	C	--	105	6	O	--	--
WGW 29	41 39 37	71 34 22	413937071342201	1938	C	--	90	6	X	--	--
WGW 30	41 38 36	71 37 27	413836071372701	1950	C	--	104	6	X	--	--
WGW 31	41 38 15	71 37 32	413815071373201	1935	C	--	175	6	X	--	--
WGW 32	41 38 23	71 37 28	413823071372801	1949	C	--	38	6	--	--	--
WGW 33	41 38 26	71 37 25	413826071372501	1949	C	--	42	6	X	--	--
WGW 34	41 38 36	71 37 03	413836071370301	--	D	--	21	30	O	--	--
WGW 35	41 38 36	71 37 11	413836071371101	--	V	--	36	1.5	S	--	--
WGW 36	41 38 47	71 36 36	413847071363601	1938	C	--	112	6	X	--	--
WGW 37	41 38 54	71 36 17	413854071361701	--	D	--	4	30	W	--	--
WGW 38	41 39 23	71 36 15	413923071361501	1949	C	--	40	6	X	--	--
WGW 39	41 39 33	71 36 12	413933071361201	--	D	--	8	30	O	--	--
WGW 40	41 39 21	71 35 50	413921071355001	--	D	--	7.5	30	W	--	--
WGW 41	41 39 29	71 36 07	413929071360701	--	D	--	8	30	O	--	--
WGW 42	41 38 35	71 36 28	413835071362802	1948	C	--	58	6	X	--	--
WGW 43	41 37 36	71 35 27	413736071352701	--	D	--	14.6	30	X	--	--
WGW 44	41 37 58	71 34 55	413758071345501	1939	V	--	28	1.25	W	--	--
WGW 45	41 38 06	71 34 42	413806071344201	--	D	--	22	30	W	--	--
WGW 46	41 38 25	71 34 25	413825071342501	1949	D	--	26	30	O	--	--
WGW 47	41 39 16	71 33 06	413916071330601	--	C	--	162	6	X	--	--
WGW 49	41 38 46	71 34 00	413846071340001	--	D	--	25	30	W	--	--
WGW 51	41 38 13	71 34 26	413813071342601	--	D	--	12	48	W	--	--
WGW 53	41 37 45	71 35 57	413745071355701	--	D	--	18	30	X	--	--
WGW 55	41 39 17	71 35 59	413917071355901	--	D	--	11.2	26	O	--	--
WGW 56	41 38 51	71 35 51	413851071355101	--	D	--	19.7	30	W	--	--
WGW 57	41 38 45	71 35 27	413845071352701	--	D	12.7	12.7	30	W	--	--
WGW 58	41 38 45	71 35 10	413845071351001	--	D	--	18	30	W	--	--
WGW 59	41 38 53	71 36 28	413853071362801	--	C	--	98	8	X	--	--
WGW 60	41 37 59	71 36 37	413759071363701	--	D	--	16	30	W	--	--
WGW 61	41 38 07	71 36 38	413807071363801	1952	D	--	15	30	O	--	--
WGW 73	41 38 17	71 40 06	413817071400601	--	D	--	21.4	24	W	--	--
WGW 74	41 38 44	71 40 09	413844071400901	--	D	--	29.5	24	W	--	--
WGW 75	41 39 00	71 39 57	413900071395701	--	D	--	19.6	30	W	--	--
WGW 76	41 38 41	71 40 59	413841071405901	--	D	--	8.5	40	W	--	--
WGW 79	41 38 45	71 40 11	413845071401101	--	D	--	21.7	30	W	--	--

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 23	250	W	H	--	--	--	SAND	--	--	--
WGW 24	255	W	H	--	--	--	SAND	--	--	--
WGW 25	343	W	H	--	--	--	SDGL	B60	--	--
WGW 26	340	W	H	--	--	--	SAND	B115	--	--
WGW 27	342	W	H	--	--	--	SAND	B135	--	--
WGW 28	345	W	H	--	--	--	SDGL	--	--	--
WGW 29	330	W	H	--	--	--	SDGL	B45	--	--
WGW 30	330	W	H	--	--	--	SAND	B46	--	--
WGW 31	330	W	H	--	--	--	--	B20	--	--
WGW 32	322	W	H	--	--	--	SDGL	--	--	--
WGW 33	320	W	H	--	--	--	SDGL	B30	--	--
WGW 34	280	W	H	--	--	--	SDGL	--	--	--
WGW 35	295	W	H	--	--	--	SAND	--	--	--
WGW 36	295	W	H	--	--	--	--	B23	--	--
WGW 37	280	W	H	--	--	--	SDGL	--	--	--
WGW 38	290	W	H	--	--	--	--	B20	--	--
WGW 39	268	W	P	--	--	--	SAND	--	--	--
WGW 40	257	W	H	--	--	--	SAND	--	--	--
WGW 41	260	W	H	--	--	--	SAND	--	--	--
WGW 42	258	W	H	--	--	--	SDGL	B38	--	--
WGW 43	308	W	H	--	--	--	SAND	--	--	--
WGW 44	273	W	H	--	--	--	SDGL	--	--	--
WGW 45	280	W	H	--	--	--	SDGL	--	--	--
WGW 46	290	W	H	--	--	--	SDGL	--	--	--
WGW 47	350	W	H	--	--	--	--	B12	--	--
WGW 49	322	W	H	--	--	--	SDGL	--	--	--
WGW 51	320	U	U	--	--	--	SDGL	--	--	--
WGW 53	295	U	U	--	--	--	SDGL	--	--	--
WGW 55	262	W	H	--	--	--	SDGL	--	--	--
WGW 56	275	U	U	--	--	--	SAND	--	--	--
WGW 57	270	U	U	--	--	--	SAND	--	--	--
WGW 58	273	U	U	--	--	--	SAND	--	--	--
WGW 59	315	W	P	--	--	--	TILL	B17	--	--
WGW 60	272	W	H	--	--	--	SDGL	--	--	--
WGW 61	268	W	H	--	--	--	SDCL	--	--	--
WGW 73	395	W	H	--	--	--	SDGL	--	--	--
WGW 74	425	W	H	--	--	--	TILL	R29.5	--	--
WGW 75	532	W	H	--	--	--	TILL	R19.6	--	--
WGW 76	437	W	H	--	--	--	TILL	R8.5	--	--
WGW 79	415	U	U	--	--	--	TILL	R21.7	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 80	41 38 59	71 40 50	413859071405001	1951	C	--	160	6	X	--	--
WGW 81	41 39 03	71 39 14	413903071391401	--	D	--	14.3	30	W	--	--
WGW 82	41 39 02	71 38 44	413902071384401	--	D	--	15.6	30	W	--	--
WGW 93	41 39 28	71 4133	413928071413301	--	D	--	16.7	40	W	--	--
WGW 94	41 38 40	71 37 39	413840071373901	1944	C	--	150	6	X	--	--
WGW 95	41 38 49	71 37 42	413849071374201	--	D	--	20.4	36	W	--	--
WGW 96	41 38 50	71 37 48	413850071374801	1937	C	--	145	6	X	--	--
WGW 97	41 38 48	71 37 45	413848071374501	1944	C	--	58	6	X	--	--
WGW 99	41 38 34	71 37 31	413834071373101	--	C	--	35	6	X	--	--
WGW 100	41 38 58	71 38 00	413858071380001	--	D	--	17.2	30	W	--	--
WGW 101	41 38 53	71 38 22	413853071382201	--	D	--	13.2	24	O	--	--
WGW 107	41 39 23	71 40 38	413923071403801	--	D	--	11.9	30	W	--	--
WGW 108	41 39 28	71 40 39	413928071403901	--	D	--	18.2	24	W	--	--
WGW 109	41 39 05	71 40 20	413905071402001	--	D	--	12.1	30	W	--	--
WGW 110	41 38 30	71 37 36	413830071373601	--	C	--	47	6	X	--	--
WGW 111	41 38 22	71 37 31	413822071373101	1932	C	--	31	6	X	--	--
WGW 112	41 38 19	71 37 30	413819071373001	1949	C	--	40	6	X	--	--
WGW 114	41 38 13	71 37 34	413813071373401	1948	C	--	46	6	X	--	--
WGW 115	41 37 52	71 37 40	413752071374001	1931	C	--	109	6	X	--	--
WGW 116	41 37 50	71 37 45	413750071374501	--	D	--	22.3	30	O	--	--
WGW 117	41 37 45	71 37 41	413745071374101	1948	D	--	15	30	O	--	--
WGW 118	41 37 54	71 37 46	413754071374601	1951	D	--	20	30	O	--	--
WGW 119	41 37 31	71 38 04	413731071380401	--	D	--	16	30	W	--	--
WGW 120	41 37 51	71 37 56	413751071375601	1951	C	--	95	6	X	--	--
WGW 121	41 37 50	71 37 52	413750071375201	--	J	--	22	1.5	T	--	--
WGW 122	41 37 52	71 37 55	413752071375501	1951	C	--	38	6	X	--	--
WGW 123	41 39 15	71 39 50	413915071395001	--	D	--	25	30	W	--	--
WGW 124	41 39 26	71 39 45	413926071394501	--	D	--	15.6	30	W	--	--
WGW 125	41 39 31	71 39 40	413931071394001	--	D	--	16	30	O	--	--
WGW 126	41 39 33	71 38 10	413933071381001	--	D	--	31	30	W	--	--
WGW 152	41 37 30	71 40 14	413730071401401	--	D	--	26.5	30	O	--	--
WGW 153	41 37 24	71 40 11	413724071401101	--	D	--	23.9	30	--	--	--
WGW 154	41 37 03	71 39 44	413703071394401	--	D	--	16.3	30	W	--	--
WGW 155	41 37 16	71 39 23	413716071392301	--	D	--	20.5	30	W	--	--
WGW 156	41 37 06	71 38 25	413706071382501	--	D	--	19.8	36	W	--	--
WGW 157	41 37 05	71 38 25	413705071382501	1952	D	--	12.4	24	O	--	--
WGW 158	41 36 59	71 38 10	413659071381001	--	D	--	24.3	30	W	--	--
WGW 159	41 36 57	71 38 12	413657071381201	--	D	--	19	30	W	--	--
WGW 160	41 36 52	71 37 59	413652071375901	--	D	--	36.3	30	X	--	--
WGW 161	41 36 44	71 37 49	413644071374901	--	D	--	14.4	36	W	--	--

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 80	495	W	H	--	--	--	TILL	B17	--	--
WGW 81	450	W	H	--	--	--	TILL	R14.3	--	--
WGW 82	425	W	H	--	--	--	TILL	R15.6	--	--
WGW 93	585	W	H	--	--	--	TILL	R16.7	--	--
WGW 94	348	W	H	--	--	--	TILL	B28	--	--
WGW 95	360	W	H	--	--	--	TILL	R20.4	--	--
WGW 96	375	W	H	--	--	--	TILL	B12	--	--
WGW 97	365	W	H	--	--	--	TILL	B8	--	--
WGW 99	328	W	H	--	--	--	SDGL	B16	--	--
WGW 100	395	W	H	--	--	--	TILL	R17.2	--	--
WGW 101	445	W	H	--	--	--	TILL	R13.2	--	--
WGW 107	408	W	H	--	--	--	SDGL	--	--	--
WGW 108	430	W	H	--	--	--	SDGL	--	--	--
WGW 109	412	W	H	--	--	--	SAND	--	--	--
WGW 110	345	W	H	--	--	--	TILL	B17	--	--
WGW 111	330	W	H	--	--	--	--	B18	--	--
WGW 112	320	W	H	--	--	--	--	B20	--	--
WGW 114	335	W	H	--	--	--	--	B7	--	--
WGW 115	345	W	H	--	--	--	SAND	B14	--	--
WGW 116	340	W	H	--	--	--	SDGL	--	--	--
WGW 117	310	W	H	--	--	--	TILL	B14	--	--
WGW 118	335	W	H	--	--	--	SDGL	--	--	--
WGW 119	315	W	H	--	--	--	SAND	--	--	--
WGW 120	335	W	H	--	--	--	SAND	B18	--	--
WGW 121	332	W	H	--	--	--	SDGL	--	--	--
WGW 122	335	W	H	--	--	--	SAND	B10	--	--
WGW 123	575	W	H	--	--	--	TILL	R25	--	--
WGW 124	580	W	H	--	--	--	TILL	R15.6	--	--
WGW 125	566	W	H	--	--	--	TILL	R16	--	--
WGW 126	395	W	H	--	--	--	TILL	R31	--	--
WGW 152	572	W	H	--	--	--	TILL	R26.5	--	--
WGW 153	580	W	H	--	--	--	TILL	R23.9	--	--
WGW 154	470	U	U	--	--	--	TILL	R16.3	--	--
WGW 155	413	W	H	--	--	--	SDGL	--	--	--
WGW 156	465	W	H	--	--	--	TILL	R19.8	--	--
WGW 157	465	W	H	--	--	--	TILL	R12.4	--	--
WGW 158	475	W	H	--	--	--	TILL	R24.3	--	--
WGW 159	475	U	U	--	--	--	TILL	R19	--	--
WGW 160	445	W	H	--	--	--	TILL	B32	--	--
WGW 161	410	W	H	--	--	--	TILL	R14.4	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 186	41 36 30	71 39 49	413630071394901	--	D	--	16.2	30	W	--	--
WGW 187	41 36 19	71 39 17	413619071391701	--	D	--	21	30	W	--	--
WGW 188	41 36 40	71 39 54	413640071395401	1938	D	--	22	30	O	--	--
WGW 189	41 36 36	71 39 54	413636071395401	--	D	--	18.9	30	W	--	--
WGW 190	41 36 47	71 39 50	413647071395001	--	D	--	15.7	30	W	--	--
WGW 193	41 36 09	71 38 38	413609071383801	1945	D	--	27.8	30	O	--	--
WGW 194	41 36 37	71 38 19	413637071381901	1949	D	--	26.7	30	O	--	--
WGW 195	41 36 43	71 38 16	413643071381601	1953	C	--	50	6	X	--	--
WGW 196	41 37 04	71 38 10	413704071381001	1948	D	--	17.7	30	O	--	--
WGW 197	41 37 07	71 38 06	413707071380601	--	C	--	200	6	X	--	--
WGW 198	41 37 14	71 38 12	413714071381201	--	D	--	19.9	30	W	--	--
WGW 199	41 37 21	71 38 10	413721071381001	--	--	--	16.4	--	--	--	--
WGW 200	41 37 31	71 38 02	413731071380201	--	D	--	11.7	24	W	--	--
WGW 209	41 37 20	71 33 59	413720071335901	--	D	--	17	36	W	--	--
WGW 210	41 36 07	71 36 19	413607071361901	--	D	--	16.3	30	W	--	--
WGW 211	41 36 17	71 36 29	413617071362901	--	D	15.9	15.9	--	W	--	--
WGW 215	41 36 35	71 37 11	413635071371102	--	V	--	10	2	--	--	--
WGW 216	41 36 54	71 36 56	413654071365601	--	D	--	26.6	30	W	--	--
WGW 217	41 36 53	71 36 54	413653071365401	--	D	--	25.7	30	W	--	--
WGW 219	41 39 23	71 35 58	413923071355801	1952	C	--	100	6	O	--	--
WGW 222	41 38 42	71 36 47	413842071364701	--	--	--	45.5	2.5	O	--	--
WGW 226	41 37 37	71 37 58	413737071375801	--	--	--	18.5	2.5	O	--	--
WGW 229	41 39 13	71 35 12	413913071351201	1952	C	--	134	6	X	--	--
WGW 230	41 39 19	71 35 38	413919071353801	1953	C	--	112	6	O	--	--
WGW 232	41 38 52	71 36 54	413852071365401	1956	W	--	81	2	O	--	--
WGW 233	41 38 52	71 36 53	413852071365301	1956	W	--	75	2	O	--	--
WGW 234	41 38 53	71 36 52	413853071365201	1956	W	--	52.3	2	O	--	--
WGW 235	41 38 53	71 36 50	413853071365001	1956	W	--	48.3	2	O	--	--
WGW 236	41 38 54	71 36 48	413854071364801	1956	W	--	43	2	O	--	--
WGW 243	41 39 03	71 36 23	413903071362301	1956	W	--	23.6	2	O	--	--
WGW 254	41 39 33	71 32 55	413933071325501	1956	W	--	31	2	O	--	--
WGW 258	41 39 32	71 33 02	413932071330201	--	W	--	21.5	2	O	--	--
WGW 259	41 39 06	71 34 17	413906071341701	--	W	--	30	2	O	--	--
WGW 260	41 38 55	71 35 14	413855071351401	--	W	--	50	2	O	--	--
WGW 261	41 38 57	71 35 23	413857071352301	--	W	--	50	2	O	--	--
WGW 262	41 38 59	71 35 36	413859071353601	--	W	--	30	2	O	--	--
WGW 263	41 38 59	71 35 43	413859071354301	--	W	--	30	2	O	--	--
WGW 264	41 39 01	71 36 06	413901071360601	1956	W	--	40	2	O	--	--
WGW 265	41 39 02	71 36 10	413902071361001	--	W	--	37.5	2	O	--	--
WGW 266	41 39 02	71 36 13	413902071361301	--	W	--	33.8	2	X	--	--

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 186	443	W	H	--	--	--	TILL	R16.2	--	--
WGW 187	425	W	H	--	--	--	TILL	R21	--	--
WGW 188	480	W	H	--	--	--	TILL	R22	--	--
WGW 189	468	U	U	--	--	--	TILL	R18.9	--	--
WGW 190	475	W	H	--	--	--	TILL	R15.7	--	--
WGW 193	515	W	H	--	--	--	TILL	R27.8	--	--
WGW 194	500	W	H	--	--	--	TILL	R26.7	--	--
WGW 195	480	W	H	--	--	--	TILL	B12	--	--
WGW 196	455	W	H	--	--	--	TILL	R17.7	--	--
WGW 197	440	W	H	--	--	--	TILL	B30	--	--
WGW 198	420	W	H	--	--	--	TILL	R19.9	--	--
WGW 199	373	W	H	--	--	--	TILL	R16.4	--	--
WGW 200	310	W	H	--	--	--	SDGL	--	--	--
WGW 209	467	W	H	--	--	--	TILL	R17	--	--
WGW 210	370	U	U	--	--	--	SDGL	--	--	--
WGW 211	353.56	U	U	--	--	--	SAND	--	--	--
WGW 215	310	W	H	--	--	--	SDGL	--	--	--
WGW 216	305	W	H	--	--	--	SDGL	--	--	--
WGW 217	310	W	S	--	--	--	SDGL	--	--	--
WGW 219	255	U	U	--	--	--	SDST	--	--	--
WGW 222	249	T	U	--	--	--	SAND	--	--	--
WGW 226	264	T	U	--	--	--	SDGL	--	--	--
WGW 229	272	W	H	5	--	--	SAND	B120	--	--
WGW 230	255	W	H	--	--	--	GRVL	--	--	--
WGW 232	249.9	T	U	--	--	--	SDST	--	--	--
WGW 233	248.5	T	U	--	--	--	SDGL	--	--	--
WGW 234	247.6	T	U	--	--	--	SDGL	B52.3	--	--
WGW 235	251.9	T	U	--	--	--	SDGL	B48.3	--	--
WGW 236	256.1	T	U	--	--	--	SDGL	B43	--	--
WGW 243	330.55	T	U	--	--	--	TILL	B13.6	--	--
WGW 254	356.7	T	U	--	--	--	SDGL	--	--	--
WGW 258	325	T	U	--	--	--	SDGL	--	--	--
WGW 259	315	T	U	--	--	--	SDST	--	--	--
WGW 260	324.5	T	U	--	--	--	SAND	--	--	--
WGW 261	310	T	U	--	--	--	SDGL	--	--	--
WGW 262	331.5	T	U	--	--	--	SDGL	--	--	--
WGW 263	320	T	U	--	--	--	SAND	--	--	--
WGW 264	283.8	T	U	--	--	--	SDGL	--	--	--
WGW 265	279	T	U	--	--	--	SDST	--	--	--
WGW 266	269	T	U	--	--	--	SDGL	B23.8	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 267	41 39 02	71 36 17	413902071361701	--	W	--	40.3	2	O	--	--
WGW 268	41 39 01	71 36 19	413901071361901	--	W	--	16	2	X	--	--
WGW 269	41 39 04	71 36 30	413904071363001	--	W	--	20.4	2	X	--	--
WGW 270	41 39 09	71 36 49	413909071364901	--	W	--	26	2	X	--	--
WGW 271	41 38 42	71 36 43	413842071364301	1962	B	--	44	--	--	--	--
WGW 272	41 38 39	71 37 00	413839071370001	1962	B	--	52	--	--	--	--
WGW 273	41 38 00	71 36 38	413800071363801	1962	B	--	78	--	--	--	--
WGW 274	41 38 54	71 36 04	413854071360401	1962	B	--	54	--	--	--	--
WGW 275	41 38 50	71 35 39	413850071353901	1962	B	--	122	--	--	--	--
WGW 276	41 38 47	71 35 12	413847071351201	1962	B	--	107	--	--	--	--
WGW 277	41 38 52	71 34 47	413852071344701	1962	B	--	10	--	--	--	--
WGW 278	41 39 07	71 34 01	413907071340101	1962	B	--	29	--	--	--	--
WGW 285	41 37 39	71 37 56	413739071375601	1996	B	31.5	21	2	S	18	21
WGW 286	41 36 35	71 37 11	413635071371101	1996	B	64	57.2	2	S	54.2	57.2
WGW 287	41 36 56	71 37 06	413656071370601	1996	B	22.6	22.6	2	S	19.6	22.6
WGW 288	41 37 20	71 36 34	413720071363401	1996	B	23	23	--	--	--	--
WGW 289	41 37 55	71 36 39	413755071363901	1996	B	79.5	79.4	2	S	73.7	79.4
WGW 290	41 37 55	71 36 39	413755071363902	1996	B	29.5	29.5	2	S	26.5	29.5
WGW 291	41 37 56	71 37 04	413756071370401	1996	B	58	17.9	2	S	14.9	17.9
WGW 292	41 38 29	71 36 34	413829071363401	1996	B	73	72.8	2	S	67.8	72.8
WGW 293	41 38 29	71 36 34	413829071363402	1996	B	23.2	21	2	S	18	21
WGW 294	41 37 34	71 35 45	413734071354501	1996	B	21.5	21.5	2	S	18.5	21.5
WGW 295	41 38 04	71 34 48	413804071344801	1996	B	24	24	2	S	21	24
WGW 296	41 38 24	71 34 24	413824071342401	1996	B	41.9	41.9	2	S	38.9	41.9
WGW 297	41 39 09	71 34 31	413909071343101	1996	B	60.9	60.9	2	S	57.9	60.9
WGW 298	41 38 50	71 35 30	413850071353001	1996	B	34	34	2	S	31	34
WGW 299	41 38 34	71 34 55	413834071345501	1996	B	44.5	44.4	2	S	41.5	44.5
WGW 300	41 38 45	71 35 08	413845071350801	1996	B	23.5	23.5	2	S	20.5	23.5
WGW 301	41 38 45	71 35 08	413845071350802	1996	B	150	137	2	S	127	137
WGW 302	41 39 01	71 35 47	413901071354701	1996	B	83	83	2	S	78	83
WGW 303	41 38 37	71 37 11	413837071371101	1996	B	81	80.8	2	S	45.8	50.8
WGW 304	41 39 24	71 37 36	413924071373601	1996	B	56	55.7	2	S	49.7	55.7
WGW 305	41 38 49	71 37 08	413849071370801	--	--	13.9	13.9	--	--	--	--
WGW 306	41 38 36	71 35 13	413836071351301	1996	W	183	179	2.5	S	169	179
WGW 307	41 38 42	71 35 09	413842071350901	1996	W	135	127	2.5	S	119	127
WGW 308	41 38 37	71 34 50	413837071345001	1996	W	131	131	2.5	S	126	131
WGW 309	41 38 40	71 36 24	413840071362401	1996	W	33	--	--	--	--	--
WGW 310	41 38 31	71 36 25	413831071362501	1996	W	31	--	--	--	--	--
WGW 311	41 38 21	71 36 37	413821071363701	1996	W	104	--	--	--	--	--
WGW 312	41 38 40	71 35 26	413840071352601	1996	W	150	146	2.5	S	135	146

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 267	289.41	T	U	--	--	--	SDGL	--	--	--
WGW 268	304.16	T	U	--	--	--	SDGL	B6	--	--
WGW 269	361.5	T	U	--	--	--	SDGL	B10.4	--	--
WGW 270	343.6	T	U	--	--	--	SDGL	B16	--	--
WGW 271	262	T	U	--	--	--	SAND	B44	--	--
WGW 272	275	T	U	--	--	--	SDST	--	--	--
WGW 273	275	T	U	--	--	--	SDGL	--	--	--
WGW 274	298	T	U	--	--	--	SDST	--	--	--
WGW 275	270	T	U	--	--	--	SDGL	--	--	--
WGW 276	277	T	U	--	--	--	SDST	--	--	--
WGW 277	282	T	U	--	--	--	SAND	--	--	--
WGW 278	325	T	U	--	--	--	SDST	--	--	--
WGW 285	272.45	O	U	--	--	--	--	--	G	Y
WGW 286	307.49	O	U	--	--	--	--	--	G	Y
WGW 287	280.65	O	U	--	--	--	--	--	G	Y
WGW 288	346	T	U	--	--	--	--	--	G	Y
WGW 289	278.28	O	U	--	--	--	--	--	G	Y
WGW 290	278.13	O	U	--	--	--	--	--	G	Y
WGW 291	255.96	O	U	--	--	--	--	--	G	Y
WGW 292	265.23	O	U	--	--	--	--	--	G	Y
WGW 293	265.11	O	U	--	--	--	--	--	G	Y
WGW 294	287.79	O	U	--	--	--	--	--	G	Y
WGW 295	267.09	O	U	--	--	--	--	--	G	Y
WGW 296	296.69	O	U	--	--	--	--	--	G	Y
WGW 297	326.62	O	U	--	--	--	--	--	G	Y
WGW 298	272.96	O	U	--	--	--	--	--	G	Y
WGW 299	288.28	O	U	--	--	--	--	--	G	Y
WGW 300	271.86	O	U	--	--	--	--	--	G	Y
WGW 301	271.58	O	U	--	--	--	--	--	G	Y
WGW 302	313.69	O	U	--	--	--	--	--	G	Y
WGW 303	286.86	O	U	--	--	--	--	--	G	Y
WGW 304	273.14	O	U	--	--	--	--	--	G	--
WGW 305	263.7	O	U	--	--	--	--	--	--	Y
WGW 306	284.38	O	U	--	--	--	--	--	G	Y
WGW 307	269.15	O	U	--	--	--	--	--	G	Y
WGW 308	289.32	O	U	--	--	--	--	--	G	Y
WGW 309	260	U	--	--	--	--	--	--	G	--
WGW 310	259	U	--	--	--	--	--	--	G	--
WGW 311	280	U	--	--	--	--	--	--	G	--
WGW 312	262.94	O	U	--	--	--	--	--	G	Y

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 313	41 38 58	71 37 12	413858071371201	1996	W	134	112	2.5	S	101	112
WGW 314	41 39 04	71 37 12	413904071371201	1996	W	156	--	--	--	--	--
WGW 315	41 39 34	71 35 44	413934071354401	1994	W	129	120	2.5	S	115	120
WGW 316	41 39 34	71 35 39	413934071353901	1994	W	120	110	2.5	S	100	110
WGW 317	41 39 34	71 35 28	413934071352801	1994	W	115	110	2.5	S	100	110
WGW 318	41 39 31	71 35 52	413931071355201	1994	W	125	103	2.5	S	93	103
WGW 319	41 37 38	71 38 16	413738071381601	1997	B	12	10.4	2	S	5.18	9.98
WGW 320	41 37 29	71 37 18	413729071371801	1997	B	41	39.7	2	S	34.9	39.7
WGW 321	41 38 56	71 34 29	413856071342901	1997	B	43	39.2	2	S	34.5	39.2
WGW 322	41 37 35	71 37 56	413735071375601	1997	V	--	3.62	1	S	2.37	3.62
WGW 323	41 36 46	71 37 20	413646071372001	1997	V	--	4.6	1	S	3.22	4.47
WGW 324	41 36 48	71 37 08	413648071370801	1997	V	--	3.52	1	S	2.27	3.52
WGW 325	41 38 40	71 36 48	413840071364801	1997	V	--	3.85	1	S	2.6	3.85
WGW 326	41 38 35	71 36 32	413835071363201	1997	V	--	3.88	1	S	2.63	3.88
WGW 327	41 37 55	71 37 06	413755071370601	1997	V	--	6.64	1	S	5.39	6.64
WGW 328	41 38 02	71 34 53	413802071345301	1997	V	--	6.74	1	S	5.49	6.74
WGW 329	41 38 55	71 34 33	413855071343301	1997	V	--	4.31	1	S	3.06	4.31
WGW 330	41 38 50	71 34 48	413850071344801	1997	V	--	4.7	1	S	3.45	4.7
WGW 331	41 38 42	71 35 09	413842071350902	1997	V	--	6.44	1	S	5.19	6.44
WGW 332	41 39 23	71 36 00	413923071360001	1997	V	--	4.78	1	S	3.53	4.78
WGW 333	41 39 20	71 35 30	413920071353001	1997	V	--	4.7	1	S	3.45	4.7
WGW 335	41 37 32	71 35 52	413732071355201	1997	V	--	3.22	1	S	1.97	3.22
WGW 336	41 38 40	71 35 25	413840071352501	1997	B	140	138	2	S	128	138
WGW 337	41 38 40	71 35 23	413840071352301	1997	B	142	138	2	S	128	138
WGW 338	41 38 40	71 35 22	413840071352201	1997	B	146	137	2	S	127	137
WGW 339	41 38 41	71 35 26	413841071352601	1997	B	--	140	2	S	130	140
WGW 340	41 38 42	71 35 25	413842071352501	1997	B	150	144	2	S	134	144
WGW 341	41 38 40	71 35 28	413840071352801	1997	B	--	149	2	S	139	149
WGW 342	41 38 43	71 35 08	413843071350801	1997	B	129	129	2	S	119	129
WGW 343	41 38 42	71 35 07	413842071350701	1997	B	131	128	2	S	118	128
WGW 344	41 38 40	71 35 08	413840071350801	1997	B	131	118	2	S	108	118
WGW 345	41 38 39	71 35 07	413839071350701	1997	B	151	78.9	2	S	58.9	78.9
WGW 346	41 38 58	71 37 09	413858071370901	1997	B	112	109	2	S	99.2	109
WGW 347	41 38 58	71 37 08	413858071370801	1997	B	95	90.8	2	S	80.1	90.1
WGW 348	41 38 56	71 37 11	413856071371101	1997	B	120	89.8	2	S	79.8	89.8
WGW 349	41 38 54	71 37 09	413854071370901	1997	B	120	119	2	S	109	119
WGW 350	41 38 53	71 37 16	413853071371601	1997	B	109	90.1	2	S	80.1	90.1
WGW 351	41 38 59	71 37 12	413859071371201	1997	B	111	110	2	S	100	110
WGW 352	41 38 37	71 35 10	413837071351001	1997	B	118	78.5	2	S	68.5	78.5
WGW 353	41 38 36	71 35 12	413836071351201	1997	B	88	86.3	2	S	76.3	86.3

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 313	261.35	O	U	--	--	--	--	--	G	Y
WGW 314	253	U	--	--	--	--	--	--	G	--
WGW 315	256	T	U	--	--	--	SGVC	--	--	--
WGW 316	254	T	U	--	--	--	SGVC	--	--	--
WGW 317	248	T	U	--	--	--	SGVC	--	--	--
WGW 318	257	T	U	--	--	--	SGVC	--	--	--
WGW 319	305.48	O	U	--	--	--	--	--	--	--
WGW 320	269.31	O	U	--	--	--	SDGL	B41	--	--
WGW 321	304.08	O	U	--	--	--	--	--	--	--
WGW 322	261.96	O	U	--	--	--	--	--	--	--
WGW 323	270.15	O	--	--	--	--	--	--	--	--
WGW 324	261.65	O	U	--	--	--	--	--	--	--
WGW 325	246.93	O	U	--	--	--	--	--	--	--
WGW 326	248.08	O	U	--	--	--	--	--	--	--
WGW 327	248.39	O	--	--	--	--	--	--	--	--
WGW 328	259.85	O	--	--	--	--	--	--	--	--
WGW 329	288.25	O	--	--	--	--	--	--	--	--
WGW 330	274.66	O	--	--	--	--	--	--	--	--
WGW 331	265.3	O	--	--	--	--	--	--	--	--
WGW 332	255.74	O	--	--	--	--	--	--	--	--
WGW 333	248.93	O	--	--	--	--	--	--	--	--
WGW 335	277.58	O	U	--	--	--	--	--	--	--
WGW 336	261.49	O	U	7	--	--	--	--	G	--
WGW 337	260.05	O	U	21.4	--	--	--	--	G	--
WGW 338	260.85	O	U	--	--	--	--	--	G	--
WGW 339	263.26	O	U	--	--	--	--	--	G	--
WGW 340	264.37	O	U	--	--	--	--	--	G	--
WGW 341	263	O	U	--	--	--	--	--	G	--
WGW 342	271.04	O	U	--	--	--	--	--	G	--
WGW 343	270.99	O	U	--	--	--	--	--	G	--
WGW 344	279.43	O	U	--	--	--	--	--	G	--
WGW 345	287.12	O	U	--	--	--	--	--	G	--
WGW 346	262.77	O	U	--	--	--	--	--	G	--
WGW 347	268.5	O	U	--	--	--	--	--	G	--
WGW 348	270.42	O	U	--	--	--	--	--	G	--
WGW 349	266.43	O	U	--	--	--	--	--	G	--
WGW 350	286.91	O	U	--	--	--	--	--	G	--
WGW 351	259.86	O	U	--	--	--	--	--	G	Y
WGW 352	288.74	O	U	--	--	--	--	--	G	--
WGW 353	285.99	O	U	6	--	--	--	--	G	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 354	41 38 40	71 35 26	413840071352602	1997	C	145	145	8	S	125	145
WGW 355	41 38 42	71 35 09	413842071350903	1998	C	133	133	8	S	113	133
WGW 356	41 38 58	71 37 12	413858071371202	1998	W	111	110	8	S	89.6	110
WGW 357	41 37 53	71 37 00	413753071370001	1998	W	60	60	1.25	S	45	60
WGW 358	41 37 56	71 36 39	413756071363901	1998	W	67.7	67.7	2.5	S	62.7	67.7
WGW 359	41 37 57	71 36 21	413757071362101	1998	W	47	47	2.5	O	--	--
WGW 360	41 37 55	71 36 23	413755071362301	1998	W	64	64	2.5	S	52	64
WGW 361	41 37 48	71 36 43	413748071364301	1998	W	25	25	2.5	O	--	--
WGW 362	41 38 34	71 36 29	413834071362901	1998	W	20.5	20.5	2.5	O	--	--
WGW 363	41 38 32	71 36 52	413832071365201	1998	W	99	98.5	2.5	S	86	98.5
WGW 364	41 37 41	71 37 07	413741071370701	1998	W	64	60	2.5	S	48.5	60
WGW 365	41 37 44	71 36 59	413744071365901	1998	W	46.7	46.7	2.5	O	--	--
WGW 366	41 38 14	71 36 52	413814071365201	1998	W	125	125	2.5	S	113	125
WGW 367	41 38 14	71 36 56	413814071365601	1998	W	70	70	2.5	S	58	70
WGW 368	41 38 11	71 36 41	413811071364101	1998	W	76.2	76.2	2.5	O	--	--
WGW 369	41 37 29	71 37 09	413729071370901	1998	W	56.9	56.9	2.5	O	--	--
WGW 370	41 37 20	71 37 15	413720071371501	1998	W	--	31.9	2.5	O	--	--
WGW 371	41 39 25	71 37 27	413925071372701	1998	W	63.8	63	2.5	S	57	63
WGW 372	41 39 16	71 37 31	413916071373101	1998	W	39	39	2.5	O	--	--
WGW 373	41 39 29	71 37 13	413929071371301	1998	W	84	84	2.5	O	--	--
WGW 374	41 38 36	71 35 13	413836071351302	1999	A	--	183	10	S	163	183
WGW 375	41 38 35	71 35 13	413835071351301	1999	A	--	185	2	P	165	185
WGW 376	41 38 36	71 35 12	413836071351202	1999	A	--	183	2	P	163	183
WGW 377	41 38 37	71 35 10	413837071351002	1999	A	--	182	2	P	162	182
WGW 378	41 38 57	71 36 19	413857071361901	1976	W	--	22	2.5	X	--	--
WGW 379	41 39 01	71 36 11	413901071361101	1976	W	--	49	2.5	X	--	--
WGW 380	41 39 54	71 36 03	413954071360301	1976	W	--	62	2.5	O	--	--
WGW 381	41 38 54	71 35 48	413854071354801	1976	W	--	147	2.5	O	--	--
WGW 382	41 38 57	71 35 33	413857071353301	1976	W	--	178	2.5	X	--	--
WGW 383	41 38 49	71 35 16	413849071351601	1976	W	--	190	2.5	O	--	--
WGW 384	41 38 56	71 35 04	413856071350401	1976	W	--	146	2.5	O	--	--
WGW 385	41 38 57	71 34 53	413857071345301	1976	W	--	87	2.5	O	--	--
WGW 386	41 38 54	71 34 38	413854071343801	1976	W	--	87	2.5	X	--	--
WGW 387	41 39 04	71 34 27	413904071342701	1976	W	--	47.8	2.5	O	--	--
WGW 388	41 39 04	71 34 03	413904071340301	1976	W	--	41	2.5	O	--	--
WGW 389	41 39 13	71 33 50	413913071335001	1976	W	--	114	2.5	O	--	--
WGW 390	41 38 36	71 34 07	413836071340701	1976	W	--	30.5	2.5	O	--	--
WGW 391	41 38 39	71 34 30	413839071343001	1976	W	--	50	2.5	O	--	--
WGW 392	41 38 44	71 36 27	413844071362701	1983	W	39.2	39.2	2.5	X	--	--
WGW 393	41 39 14	71 36 00	413914071360001	1983	W	63	56	1.25	X	46	56

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 354	262	T	U	353	81.3	48	SDGL	--	G	Y
WGW 355	269.15	T	U	400	55.1	48	SDGL	--	G	Y
WGW 356	--	O	U	--	--	--	--	--	G	Y
WGW 357	270	T	U	--	--	--	SGVC	--	G	--
WGW 358	279.6	T	U	--	--	--	SDGL	--	G	Y
WGW 359	280	T	U	--	--	--	SDGL	--	G	--
WGW 360	272	T	U	--	--	--	SDGL	--	G	Y
WGW 361	330	T	U	--	--	--	SDGL	--	G	--
WGW 362	258	O	U	--	--	--	TILL	R20.5	G	--
WGW 363	257	T	U	41	--	--	SDST	--	G	--
WGW 364	278	T	U	--	--	--	SDGL	--	G	--
WGW 365	297	T	U	--	--	--	SDGL	--	G	--
WGW 366	302	T	U	--	--	--	SDGL	--	G	--
WGW 367	280	T	U	38	--	--	SDST	--	G	--
WGW 368	272	T	U	--	--	--	SDST	--	G	--
WGW 369	260	T	U	--	--	--	SDST	--	G	--
WGW 370	258	T	U	--	--	--	SDST	--	G	--
WGW 371	257.93	T	U	--	--	--	SAND	--	G	Y
WGW 372	270	T	U	--	--	--	SDGL	--	G	--
WGW 373	258	T	U	--	--	--	SDST	--	G	--
WGW 374	284	T	U	736	63.3	48	SDGL	--	G	Y
WGW 375	285.77	O	U	40	--	--	SDGL	--	G	--
WGW 376	285.89	O	U	40	--	--	SDGL	--	G	--
WGW 377	288.9	O	U	35	--	--	SAND	--	G	--
WGW 378	294	T	U	--	--	--	SDGL	B12	--	--
WGW 379	279	T	U	--	--	--	SDGL	B39	--	--
WGW 380	302.3	T	U	--	--	--	SDST	--	--	--
WGW 381	300.6	T	U	--	--	--	SDGL	--	--	--
WGW 382	290.5	T	U	--	--	--	SDST	B173	--	--
WGW 383	278.3	T	U	--	--	--	SDGL	--	--	--
WGW 384	298.6	T	U	--	--	--	SAND	--	--	--
WGW 385	286	T	U	--	--	--	SDGL	--	--	--
WGW 386	285.7	T	U	--	--	--	SDGL	B77	--	--
WGW 387	311	T	U	--	--	--	SDGL	--	--	--
WGW 388	320	T	U	--	--	--	SDST	--	--	--
WGW 389	341.4	T	U	--	--	--	SDST	--	--	--
WGW 390	319	T	U	--	--	--	SDGL	--	--	--
WGW 391	331.7	T	U	--	--	--	SDGL	--	--	--
WGW 392	272.82	T	U	--	--	--	SDGL	B29.2	--	--
WGW 393	262	T	U	--	--	--	SGVC	B53	--	--

Table 1. Ground-water data-collection sites in the Big–Mishnock stream-aquifer system, central Rhode Island—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification	Construction							
				Year	Method	Hole depth (feet below land surface)	Well depth (feet)	Casing		Screened interval (feet below land surface)	
								Diameter (inches)	Finish	Top	Bottom
WGW 394	41 39 04	71 36 08	413904071360801	1983	W	25	25	2.5	X	--	--
WGW 395	41 38 46	71 36 06	413846071360601	1983	W	66.5	40	1.25	P	30	40
WGW 396	41 39 14	71 35 37	413914071353701	1983	W	144	144	2.5	X	--	--
WGW 397	41 38 59	71 35 47	413859071354701	1983	W	144	80	1.25	--	70	80
WGW 398	41 38 45	71 35 44	413845071354401	1983	W	96	40	1.25	P	30	40
WGW 399	41 39 05	71 35 26	413905071352601	1983	W	169	169	2.5	X	--	--
WGW 400	41 38 56	71 35 25	413856071352501	1983	W	189	189	2.5	X	--	--
WGW 401	41 38 41	71 35 21	413841071352101	1983	W	163	40	1.25	P	30	40
WGW 402	41 38 56	71 35 06	413856071350601	1983	W	197	80	1.25	S	70	80
WGW 403	41 38 45	71 35 04	413845071350401	1983	W	138	50	1.25	P	40	50
WGW 404	41 39 10	71 34 54	413910071345401	1983	W	166	108	1.25	P	98	108
WGW 405	41 38 56	71 34 46	413856071344601	1983	W	80.2	64	1.25	P	54	64
WGW 406	41 38 51	71 34 41	413851071344101	1983	W	86	86	2.5	X	--	--
WGW 407	41 39 10	71 34 35	413910071343501	1983	W	128	128	2.5	X	--	--
WGW 408	41 38 59	71 34 30	413859071343001	1983	W	66.2	61	1.25	S	51	61
WGW 409	41 39 12	71 35 14	413912071351401	1983	W	159	159	2.5	X	--	--
WGW 410	41 37 56	71 36 39	413756071363902	1999	A	81	80.4	10	S	60.4	80.4
WGW 411	41 39 25	71 37 27	413925071372702	1999	A	77.5	75	10	S	55	75
WGW 412	41 39 27	71 37 24	413927071372401	1999	A	76.2	74.8	2	P	54.8	74.8
WGW 413	41 39 26	71 37 25	413926071372501	1999	A	76.5	75.5	2	P	55.5	75.5
WGW 414	41 39 25	71 37 28	413925071372801	1999	A	67	65.4	2	P	45.4	65.4
WGW 415	41 39 24	71 37 28	413924071372801	1999	P	86	84.8	2	P	64.8	84.8
WGW 416	41 39 23	71 37 32	413923071373201	1999	A	74.8	74.4	2	P	54.4	74.4
WGW 417	41 37 54	71 36 44	413754071364401	1999	A	77	76.6	2	P	56.5	76.6
WGW 418	41 37 56	71 36 37	413756071363701	1999	A	--	78.1	2	P	58	78.1
WGW 419	41 37 56	71 36 36	413756071363601	1999	A	84	81.2	2	P	61.2	81.2
WGW 420	41 38 00	71 36 39	413800071363901	1999	A	87	84.1	2	P	64.1	84.1
WGW 421	41 37 58	71 36 37	413758071363701	1999	A	85.2	85.2	2	P	65.2	85.2
WGW 422	41 38 36	71 36 18	413836071361801	2000	W	14.5	14.5	2.5	S	--	--
WGW 423	41 38 37	71 36 17	413837071361701	2000	W	27.7	23.7	2.5	S	--	--
WGW 424	41 38 37	71 36 16	413837071361601	2000	W	22.5	22.5	2.5	S	--	--
WGW 425	41 38 38	71 36 15	413836071361501	2000	W	37.3	37.3	2.5	S	--	--

Well No.	Land surface altitude (feet above mean sea level)	Site use	Water use	Pumping			Aquifer lithology	Depth to bedrock (feet)	Log	Water quality
				Discharge (gal/min)	Drawdown (feet)	Time (hours)				
WGW 394	272.8	T	U	--	--	--	SDST	--	--	--
WGW 395	262.34	T	U	--	--	--	SDST	B61.5	--	--
WGW 396	251.4	T	U	--	--	--	SGVC	B134	--	--
WGW 397	312.8	T	U	--	--	--	SDST	B139	--	--
WGW 398	262.12	T	U	--	--	--	SGVC	B85.6	--	--
WGW 399	267.5	T	U	--	--	--	SDST	B158	--	--
WGW 400	270.7	T	U	--	--	--	SDST	B179	--	--
WGW 401	264	T	U	--	--	--	SDST	B151	--	--
WGW 402	308.3	T	U	--	--	--	SDST	B187	--	--
WGW 403	273.7	T	U	--	--	--	SDST	B133	--	--
WGW 404	333.3	T	U	--	--	--	SDGL	B163	--	--
WGW 405	297.6	T	U	--	--	--	SDGL	--	--	--
WGW 406	292.9	T	U	--	--	--	SDGL	B76	--	--
WGW 407	328.6	T	U	--	--	--	SGVC	B116	--	--
WGW 408	301.5	T	U	--	--	--	SDST	B56.2	--	--
WGW 409	279.7	T	U	--	--	--	SDGL	B156	--	--
WGW 410	278	T	U	923	31	48	SDGL	B81	G	Y
WGW 411	258	T	U	326	38.2	49	SDGL	--	G	Y
WGW 412	258.06	O	U	55	--	--	SDGL	--	G	--
WGW 413	255.81	O	U	25	--	--	SAND	--	G	--
WGW 414	262.28	O	U	25	--	--	SAND	--	G	--
WGW 415	267.94	O	U	25	--	--	SDGL	--	G	--
WGW 416	270.52	O	U	--	--	--	SAND	--	G	--
WGW 417	267.7	O	U	30	--	--	SDGL	--	G	--
WGW 418	276.93	O	U	30	--	--	SDGL	--	G	--
WGW 419	277.27	O	U	30	--	--	SDGL	--	G	--
WGW 420	270.64	O	U	30	--	--	SDGL	--	G	--
WGW 421	272.6	O	U	30	--	--	SDGL	--	G	--
WGW 422	262	U	U	--	--	--	SDGL	--	--	--
WGW 423	260	U	U	--	--	--	SDGL	--	--	--
WGW 424	259	U	U	--	--	--	SDGL	--	--	--
WGW 425	258	U	U	--	--	--	SDGL	--	--	--

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98

[Site locations are shown on plate 1.Water levels in feet below land surface; +, indicates a water level above land surface; WGW, West Greenwich well; --, no data available]

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 211		**Site Identification No.: 413617071362901**							
OCT 18, 1996	12.19	MAR 20, 1997	9.30	AUG 27, 1997	12.19	JAN 15, 1998	12.19	JUN 25, 1998	7.52
NOV 22	12.19	APR 14	8.80	SEP 18	12.19	FEB 17	10.98	JUL 15	8.22
DEC 18	10.61	MAY 20	9.22	OCT 16	12.19	MAR 24	7.95	AUG 26	11.07
JAN 23, 1997	9.52	JUN 17	10.13	NOV 12	12.19	APR 14	7.93	SEP 29	12.19
FEB 20	8.92	JUL 15	11.22	DEC 09	12.19	MAY 19	7.52	OCT 27	12.19
Well No.: WGW 285		**Site Identification No.: 413739071375601**							
JUL 15, 1996	7.22	JAN 23, 1997	7.45	JUL 16, 1997	8.61	JAN 15, 1998	7.32	JUN 25, 1998	7.32
AUG 15	8.43	FEB 20	7.46	AUG 27	8.36	FEB 17	7.28	JUL 15	8.11
SEP 30	8.27	MAR 20	7.49	SEP 18	8.46	MAR 25	6.88	AUG 24	8.66
OCT 17	8.23	APR 14	6.72	OCT 16	8.63	APR 14	7.31	SEP 29	8.64
NOV 21	7.94	MAY 20	7.66	NOV 12	7.65	MAY 20	7.48	OCT 27	8.48
DEC 18	6.47	JUN 17	8.27	DEC 09	8.10				
Well No.: WGW 286		**Site Identification No.: 413635071371101**							
JUL 15, 1996	21.26	JAN 23, 1997	20.20	JUL 15, 1997	21.78	JAN 15, 1998	22.07	JUN 25, 1998	18.66
AUG 15	21.96	FEB 20	19.84	AUG 27	22.46	FEB 17	20.63	JUL 15	19.19
SEP 30	22.42	MAR 20	20.14	SEP 18	22.67	MAR 24	18.97	AUG 26	20.81
OCT 17	22.39	APR 14	19.76	OCT 16	23.11	APR 14	18.99	SEP 29	21.71
NOV 22	21.70	MAY 20	20.04	NOV 12	22.69	MAY 19	18.75	OCT 27	22.08
DEC 18	20.77	JUN 17	20.86	DEC 09	22.61				
Well No.: WGW 287		**Site Identification No.: 413656071370601**							
JUL 15, 1996	6.39	JAN 23, 1997	5.43	JUL 15, 1997	8.20	JAN, 1998	--	JUN 25, 1998	3.13
AUG 15	8.42	FEB 20	4.63	AUG 27	9.60	FEB 17	6.23	JUL 15	4.51
SEP 30	9.58	MAR 20	4.94	SEP 18	9.90	MAR 24	2.62	AUG 26	7.11
OCT 17	9.61	APR 14	4.00	OCT 16	10.87	APR 14	3.08	SEP 29	8.65
NOV 21	8.66	MAY 20	5.01	NOV 12	10.56	MAY 19	3.10	OCT 27	9.31
DEC 18	6.21	JUN 17	6.57	DEC 09	10.37				
Well No.: WGW 289		**Site Identification No.: 413755071363901**							
JUL 11, 1996	15.50	JAN 23, 1997	14.18	JUL 17, 1997	15.87	JAN 14, 1998	15.83	JUN 25, 1998	12.80
AUG 15	15.99	FEB 20	13.79	AUG 27	16.61	FEB 17	14.31	JUL 15	13.45
SEP 30	16.65	MAR 20	14.13	SEP 17	16.57	MAR 24	12.60	AUG 26	14.99
OCT 17	16.60	APR 15	13.70	OCT 16	17.05	APR 14	12.74	SEP 29	15.85
NOV 21	15.84	MAY 20	14.13	NOV 12	16.76	MAY 20	12.54	OCT 27	16.24
DEC 18	14.71	JUN 17	14.91	DEC 09	16.44				
Well No.: WGW 290		**Site Identification No.: 413755071363902**							
JUL 15, 1996	15.16	JAN 23, 1997	14.05	JUL 15, 1997	15.73	JAN 14, 1998	15.70	JUN 25, 1998	12.69
AUG 15	15.86	FEB 20	13.65	AUG 27	16.48	FEB 17	14.21	JUL 15	13.31
SEP 30	16.49	MAR 20	14.01	SEP 17	16.46	MAR 24	12.47	AUG 26	14.87
OCT 18	16.57	APR 15	13.58	OCT 16	16.94	APR 14	12.63	SEP 29	15.72
NOV 21	15.71	MAY 20	13.97	NOV 12	16.61	MAY 20	12.38	OCT 27	16.09
DEC 18	14.57	JUN 17	14.76	DEC 09	16.30				

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 291		**Site Identification No.: 413756071370401**							
JUL 15, 1996	1.56	JAN 23, 1997	1.21	JUL 15, 1997	2.85	JAN 14, 1998	1.69	JUN 25, 1998	0.77
AUG 15	2.39	FEB 20	1.16	AUG 27	2.80	FEB 17	1.33	JUL 15	1.48
SEP 30	2.65	MAR 20	1.37	SEP 17	2.71	MAR 24	.58	AUG 26	2.26
OCT 18	2.41	APR 15	.97	OCT 16	3.03	APR 14	.90	SEP 29	2.61
NOV 21	2.00	MAY 20	1.50	NOV 12	2.24	MAY 20	.94	OCT 27	2.51
DEC 18	.97	JUN 17	2.16	DEC 09	2.28				
Well No.: WGW 292		**Site Identification No.: 413829071363401**							
JUL 15, 1996	13.05	JAN 23, 1997	12.46	JUL 15, 1997	13.79	JAN 15, 1998	12.57	JUN 25, 1998	11.85
AUG 15	13.57	FEB 20	12.53	AUG 27	13.72	FEB 17	12.13	JUL 16	12.57
SEP 30	13.42	MAR 20	12.50	SEP 17	13.56	MAR 25	11.43	AUG 26	13.51
OCT 17	13.30	APR 14	11.91	OCT 16	13.91	APR 14	11.93	SEP 29	13.72
NOV 21	13.02	MAY 20	12.23	NOV 12	13.20	MAY 19	11.72	OCT 27	13.55
DEC 18	11.90	JUN 17	13.14	DEC 09	13.11				
Well No.: WGW 293		**Site Identification No.: 413829071363402**							
JUL 15, 1996	12.94	JAN 23, 1997	12.32	JUL 15, 1997	13.76	JAN 15, 1998	12.48	JUN 25, 1998	11.75
AUG 15	13.41	FEB 20	12.14	AUG 27	13.67	FEB 17	12.04	JUL 16	12.51
SEP 30	13.34	MAR 20	12.42	SEP 17	13.51	MAR 25	11.30	AUG 26	13.51
OCT 17	13.18	APR 14	11.83	OCT 16	13.88	APR 14	11.86	SEP 29	13.71
NOV 22	12.85	MAY 20	12.90	NOV 12	13.13	MAY 19	11.60	OCT 27	13.52
DEC 18	11.70	JUN 17	13.09	DEC 09	13.05				
Well No.: WGW 294		**Site Identification No.: 413734071354501**							
JUL 15, 1996	2.01	JAN 23, 1997	1.81	JUL 15, 1997	4.70	JAN 14, 1998	1.78	JUN 25, 1998	2.00
AUG 15	3.04	FEB 20	1.95	AUG 27	3.91	FEB 17	1.86	JUL 15	2.78
SEP 30	2.80	MAR 20	2.01	SEP 17	3.54	MAR 24	1.51	AUG 26	3.78
OCT 18	2.55	APR 14	1.72	OCT 16	4.08	APR 14	1.95	SEP 29	4.28
NOV 21	2.20	MAY 20	2.10	NOV 12	2.10	MAY 20	2.11	OCT 27	3.59
DEC 18	1.35	JUN 18	3.23	DEC 09	2.26				
Well No.: WGW 295		**Site Identification No.: 4138040713444801**							
JUL 15, 1996	3.26	JAN 23, 1997	2.97	JUL 15, 1997	4.34	JAN14, 1998	2.90	JUN 25, 1998	2.49
AUG 15	3.91	FEB 20	2.92	AUG 28	3.91	FEB 18	1.99	JUL 15	3.23
SEP 30	3.88	MAR 20	3.13	SEP 17	3.86	MAR 24	2.07	AUG 24	4.20
OCT 18	3.74	APR 15	2.69	OCT 16	4.08	APR 13	2.54	SEP 29	4.09
NOV 21	3.48	MAY 21	3.29	NOV 13	3.31	MAY 19	2.52	OCT 27	3.83
DEC 18	2.43	JUN 18	3.99	DEC 09	3.45				
Well No.: WGW 296		**Site Identification No.: 413824071342401**							
JUL 15, 1996	21.29	JAN 23, 1997	20.61	JUL 15, 1997	22.00	JAN 14, 1998	25.00	JUN 25, 1998	15.77
AUG 15	22.64	FEB 20	19.65	AUG 28	24.34	FEB 17	22.23	JUL 15	16.24
SEP 30	24.80	MAR 20	19.76	SEP 17	24.71	MAR 24	17.85	AUG 24	19.15
OCT 18	24.85	APR 15	19.17	OCT 16	25.60	APR 13	17.12	SEP 29	21.83
NOV 21	23.89	MAY 21	19.06	NOV 13	26.03	MAY 19	15.95	OCT 27	23.34
DEC 18	22.73	JUN 18	20.22	DEC 09	25.59				

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 297		**Site Identification No.: 413909071343101**							
JUL 15, 1996	40.16	JAN 23, 1997	40.53	JUL 16, 1997	40.64	JAN 15, 1998	41.61	JUN 25, 1998	38.25
AUG 15	40.74	FEB 20	40.15	AUG 27	40.15	FEB 17	41.20	JUL 16	37.99
SEP 30	41.22	MAR 20	39.69	SEP 18	41.37	MAR 25	40.04	AUG 26	38.94
OCT 18	41.39	APR 15	40.02	OCT 16	41.51	APR 13	38.94	SEP 29	40.26
NOV 21	41.37	MAY 21	39.85	NOV 12	41.61	MAY 19	38.40	OCT 27	40.85
DEC 18	41.31	JUN 18	40.14	DEC 09	41.67				
Well No.: WGW 298		**Site Identification No.: 413850071353001**							
JUL 1996	--	JAN 23, 1997	13.53	JUL 16, 1997	15.38	JAN 15, 1998	15.23	JUN 25, 1998	11.56
AUG 15	15.43	FEB 20	13.12	AUG 27	15.96	FEB 16	13.84	JUL 15	12.43
SEP 30	15.91	MAR 20	13.48	SEP 1	15.91	MAR 25	11.95	AUG 24	14.17
OCT 18	15.87	APR 15	12.88	OCT 16	16.42	APR 14	12.24	SEP 29	14.97
NOV 22	15.16	MAY 21	13.65	NOV 12	16.11	MAY 19	11.66	OCT 27	15.23
DEC 04	14.89	JUN 18	14.50	DEC 09	15.76				
Well No.: WGW 299		**Site Identification No.: 413834071345501**							
JUL 15, 1996	24.25	JAN 23, 1997	23.04	JUL 16, 1997	24.08	JAN 14, 1998	25.73	JUN 25, 1998	20.31
AUG 15	24.37	FEB 20	22.78	AUG 28	25.34	FEB 17	24.21	JUL 15	20.08
SEP 30	25.31	MAR 20	22.93	SEP 17	25.11	MAR 25	21.97	AUG 26	21.86
OCT 18	25.45	APR 15	22.78	OCT 16	25.64	APR 14	21.36	SEP 29	23.32
NOV 21	24.57	MAY 21	22.53	NOV 12	26.09	MAY 20	20.62	OCT 27	24.21
DEC 18	24.38	JUN 17	23.25	DEC 09	25.90				
Well No.: WGW 300		**Site Identification No.: 413845071350801**							
JUL 15, 1996	9.84	JAN 27, 1997	9.65	JUL 16, 1997	12.91	JAN 14, 1998	10.69	JUN 25, 1998	7.20
AUG 15	12.78	FEB 20	9.21	AUG 28	12.29	FEB 16	9.60	JUL 15	8.44
SEP 30	12.25	MAR 20	9.71	SEP 17	12.93	MAR 25	7.91	AUG 26	11.36
OCT 18	11.63	APR 15	8.63	OCT 16	13.89	APR 14	8.18	SEP 29	11.74
NOV 22	10.94	MAY 21	10.44	NOV 13	11.32	MAY 20	7.77	OCT 27	11.96
DEC 04	10.79	JUN 17	11.79	DEC 09	12.31				
Well No.: WGW 301		**Site Identification No.: 413845071350802**							
JUL 16, 1996	15.79	JAN 23, 1997	10.76	JUL 16, 1997	12.33	JAN 14, 1998	12.31	JUN 25, 1998	8.71
AUG 15	12.40	FEB 20	10.46	AUG 28	12.76	FEB 16	11.18	JUL 15	9.13
SEP 30	12.78	MAR 20	10.70	SEP 17	12.82	MAR 25	9.63	AUG 26	10.81
OCT 18	12.66	APR 15	10.36	OCT 16	13.33	APR 14	9.51	SEP 29	11.60
NOV 22	12.22	MAY 21	10.73	NOV 13	12.70	MAY 20	9.01	OCT 27	12.04
DEC 18	11.05	JUN 17	11.49	DEC 09	12.85				
Well No.: WGW 302		**Site Identification No.: 413901071354701**							
JUL 17, 1996	62.15	JAN 23, 1997	61.01	JUL 16, 1997	61.65	JAN 15, 1998	61.64	JUN 25, 1998	60.38
AUG 15	61.74	FEB 20	59.99	AUG 28	61.91	FEB 17	61.00	JUL 16	60.60
SEP 30	61.93	MAR 20	61.03	SEP 18	61.94	MAR 25	60.52	AUG 26	61.22
OCT 18	61.93	APR 14	60.88	OCT 15	62.08	APR 13	60.62	SEP 29	61.42
NOV 22	61.61	MAY 21	60.93	NOV 12	61.90	MAY 19	60.36	OCT 27	61.46
DEC 18	61.29	JUN 18	61.28	DEC 09	61.79				

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 303	**Site Identification No.: 413837071371101**								
JUL 17, 1996	28.20	JAN 23, 1997	26.90	JUL 15, 1997	28.59	JAN 15, 1998	30.36	JUN 25, 1998	25.22
AUG 15	28.70	FEB 20	26.59	AUG 27	30.30	FEB 17	28.16	JUL 16	25.59
SEP 30	29.93	MAR 20	26.88	SEP 18	30.59	MAR 24	26.28	AUG 26	27.67
OCT 17	30.09	APR 14	26.77	OCT 15	31.06	APR 14	25.20	SEP 29	29.16
NOV 21	29.15	MAY 20	26.55	NOV 12	31.34	MAY 20	24.94	OCT 27	29.95
DEC 19	28.43	JUN 17	27.39	DEC 09	30.88				
Well No.: WGW 304	**Site Identification No.: 413924071373601**								
JUL 17, 1996	20.50	JAN 23, 1997	17.08	JUL 15, 1997	20.65	JAN 15, 1998	20.70	JUN 25, 1998	15.47
AUG 15	20.88	FEB 20	16.76	AUG 27	22.21	FEB 17	17.01	JUL 16	16.71
SEP 30	21.84	MAR 20	17.90	SEP 18	22.46	MAR 25	14.70	AUG 25	19.96
OCT 17	21.89	APR 14	16.92	OCT 15	22.80	APR 13	15.32	SEP	--
NOV 21	20.14	MAY 20	17.51	NOV 12	22.73	MAY 19	14.93	OCT 27	21.92
DEC 18	17.61	JUN 17	18.99	DEC 09	22.17				
Well No.: WGW 305	**Site Identification No.: 413849071370801**								
OCT 18, 1996	7.66	MAR 20, 1997	4.74	AUG 27 , 1997	7.97	JAN 1998	--	JUN 25, 1998	3.02
NOV 26	6.86	APR 14	4.09	SEP 18	8.17	FEB	--	JUL 16	3.94
DEC 19	5.08	MAY 20	4.89	OCT 15	8.70	MAR 25	3.28	AUG 26	5.73
JAN 23, 1997	4.91	JUN 17	5.78	NOV 13	8.42	APR 14	3.55	SEP 29	6.91
FEB 20	4.32	JUL 15	6.91	DEC 09	7.99	MAY 20	3.12	OCT 27	7.52
Well No.: WGW 306	**Site Identification No.: 413836071351301**								
NOV 27, 1996	24.60	APR 15, 1997	23.48	SEP 17, 1997	25.42	FEB 16, 1998	24.11	JUL 15, 1998	22.92
DEC 20	23.82	MAY 21	23.87	OCT 16	25.85	MAR 25	23.00	AUG 26	24.10
JAN 23, 1997	23.98	JUN 17	24.45	NOV 12	25.29	APR 14	23.04	SEP 29	24.72
FEB 20	23.78	JUL 16	25.11	DEC 09	25.37	MAY 20	22.69	OCT 27	24.97
MAR 20	23.85	AUG 28	25.44	JAN 14, 1998	24.89	JUN 25	22.54		
Well No.: WGW 307	**Site Identification No.: 413842071350901**								
DEC 20, 1996	8.28	MAY 21, 1997	8.15	OCT 16, 1997	10.65	MAR 25, 1998	6.72	JUL 15, 1998	6.32
JAN 23, 1997	8.32	JUN 17	8.86	NOV 12	9.99	APR 14	6.65	AUG 26	7.89
FEB 16	7.93	JUL 16	9.66	DEC 09	10.16	MAY 20	6.17	SEP 26	8.68
MAR 20	8.11	AUG 28	10.12	JAN 14, 1998	9.61	JUN 25	5.93	OCT 29	9.07
APR 15	7.66	SEP 17	10.12	FEB 16	8.47				
Well No.: WGW 308	**Site Identification No.: 413837071345001**								
DEC 20, 1996	25.34	MAY 21, 1997	24.20	OCT 16, 1997	27.17	MAR 25, 1998	23.46	JUL 15, 1998	22.05
JAN 23, 1997	24.59	JUN 17	24.91	NOV 12	27.25	APR 14	23.06	AUG 26	23.76
FEB 20	24.25	JUL 16	25.77	DEC 09	27.11	MAY 20	22.32	SEP 29	25.02
MAR 20	24.44	AUG 28	26.78	JAN 14, 1998	26.80	JUN 25	21.95	OCT 27	25.74
APR 15	24.15	SEP 17	26.54	FEB 17	25.43				

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 312 Site Identification No.: 413840071352601									
DEC 19, 1996	3.70	MAY 21, 1997	3.84	OCT 17, 1997	5.49	MAR 24, 1998	2.91	JUL 15, 1998	3.07
JAN 23, 1997	3.83	JUN 18	4.36	NOV	--	APR 14	3.05	AUG 26	3.89
FEB 20	3.68	JUL 16	4.94	DEC 09	4.82	MAY 20	2.80	SEP 29	4.38
MAR 20	3.77	AUG 28	5.12	JAN 15, 1998	4.31	JUN 25	2.69	OCT 27	4.53
APR 15	3.47	SEP 17	5.10	FEB 16	3.72				
Well No.: WGW 313 Site Identification No.: 413858071371201									
DEC 23, 1996	6.38	MAY 20, 1997	6.53	OCT 15, 1997	9.32	MAR 25, 1998	5.52	JUL 16, 1998	6.15
JAN 23, 1997	6.63	JUN 17	7.13	NOV 13	9.03	APR 14	5.72	AUG 26	7.47
FEB 20	6.53	JUL 15	8.08	DEC 09	8.56	MAY 20	5.43	SEP 29	8.24
MAR 20	6.85	AUG 28	8.97	JAN 15, 1998	7.86	JUN 25	5.63	OCT 27	8.64
APR 14	6.29	SEP 18	8.91	FEB 17	6.80				
Well No.: WGW 319 Site Identification No.: 413738071381601									
MAY 20, 1997	4.77	SEP 18, 1997	5.11	JAN 15, 1998	4.29	MAY 20, 1998	4.77	AUG 26, 1998	6.24
JUN 17	5.50	OCT 16	5.82	FEB 17	4.44	JUN 25	4.59	SEP 29	5.94
JUL 16	6.35	NOV 12	4.08	MAR 25	4.08	JUL 16	5.37	OCT 27	5.40
AUG 28	5.25	DEC 09	4.85	APR 14	4.45				
Well No.: WGW 320 Site Identification No.: 413729071371801									
MAY 20, 1997	2.95	SEP 18, 1997	6.19	JAN 15, 1998	2.50	MAY 20, 1998	2.29	AUG 26, 1998	6.53
JUN 17	4.68	OCT 16	7.56	FEB 17	1.81	JUN 25	1.93	SEP 29	7.25
JUL 16	7.18	NOV 12	4.70	MAR	--	JUL 16	3.47	OCT 27	6.19
AUG 27	7.03	DEC 09	4.15	APR 14	1.94				
Well No.: WGW 321 Site Identification No.: 413856071342901									
MAY 21, 1997	9.05	SEP 17, 1997	9.84	JAN 14, 1998	8.39	MAY 19, 1998	8.46	AUG 26, 1998	10.38
JUN 17	9.74	OCT 16	10.38	FEB 17	8.39	JUN 25	8.31	SEP 29	10.28
JUL 16	10.64	NOV 12	8.96	MAR 25	8.02	JUL 15	9.22	OCT 27	9.96
AUG 28	9.76	DEC 09	9.13	APR 14	8.46				
Well No.: WGW 336 Site Identification No.: 413840071352501									
JUL 30, 1997	3.57	NOV 12, 1997	3.32	FEB 18, 1998	2.34	MAY 20, 1998	1.38	AUG 26, 1998	2.54
AUG 28	3.61	DEC 09	3.42	MAR 25	1.51	JUN 25	1.27	SEP 29	3.04
SEP 17	3.58	JAN 15, 1998	2.95	APR 14	1.63	JUL 15	1.65	OCT 27	3.21
OCT 16	3.98								
Well No.: WGW 337 Site Identification No.: 413840071352301									
JUL 31, 1997	2.29	NOV 12, 1997	1.97	FEB 16, 1998	0.97	MAY 20, 1998	+0.04	AUG 20, 1998	1.16
AUG 28	2.25	DEC 09	2.09	MAR 25	.12	JUN 25	+.17	SEP 29	1.69
SEP 17	2.22	JAN 15, 1998	1.61	APR 14	.23	JUL 15	.24	OCT 27	1.86
OCT 17	2.63								
Well No.: WGW 338 Site Identification No.: 413840071352201									
AUG 28, 1997	2.94	NOV 12, 1997	2.66	FEB 16, 1998	1.60	MAY 20, 1998	0.44	AUG 26, 1998	1.73
SEP 17	2.90	DEC 09	2.79	MAR 25	.71	JUN 25	.30	SEP 29	2.29
OCT 17	3.31	JAN 15, 1998	2.29	APR 14	.73	JUL 15	.70	OCT 27	2.49

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 339	**Site Identification No.: 413841071352601**								
AUG 28, 1997	5.71	NOV 12, 1997	5.40	FEB 16, 1998	4.42	MAY 20, 1998	3.46	AUG 26, 1998	4.66
SEP 17	5.67	DEC 09	5.51	MAR 25	3.59	JUN 25	3.34	SEP	--
OCT 17	6.07	JAN 15, 1998	5.05	APR 14	3.71	JUL 15	3.74	OCT 27	5.30
Well No.: WGW 340	**Site Identification No.: 413842071352501**								
AUG 28, 1997	6.89	NOV 12, 1997	6.59	FEB 16, 1998	5.58	MAY 20, 1998	4.59	AUG 26, 1998	5.81
SEP 17	6.86	DEC 09	6.71	MAR 25	4.72	JUN 25	4.47	SEP 29	6.32
OCT 17	7.25	JAN 15, 1998	6.22	APR 14	4.85	JUL 15	4.87	OCT 27	6.47
Well No.: WGW 341	**Site Identification No.: 413840071352801**								
AUG 28, 1997	5.31	NOV 12, 1997	5.02	FEB 16, 1998	4.08	MAY 20, 1998	3.21	AUG 26, 1998	4.33
SEP 17	5.27	DEC 09	5.13	MAR 25	3.65	JUN 25	3.10	SEP 29	4.82
OCT 17	5.66	JAN 15, 1998	4.66	APR 14	3.48	JUL 15	3.48	OCT 27	4.96
Well No.: WGW 342	**Site Identification No.: 413843071350801**								
AUG 28, 1997	12.21	NOV 12, 1997	12.01	FEB 16, 1998	10.59	MAY 20, 1998	8.43	AUG 26, 1998	10.30
SEP 17	12.28	DEC 09	12.27	MAR 25	9.01	JUN 25	8.14	SEP 29	11.07
OCT 16	12.82	JAN 14, 1998	11.65	APR 14	8.93	JUL 15	8.59	OCT 27	11.49
Well No.: WGW 343	**Site Identification No.: 413842071350701**								
AUG 28, 1997	11.78	NOV 12, 1997	11.70	FEB 16, 1998	10.17	MAY 20, 1998	7.97	AUG 26, 1998	9.72
SEP 17	11.80	DEC 09	11.87	MAR 25	8.60	JUN 25	7.69	SEP 29	10.55
OCT 16	12.38	JAN 14, 1998	11.28	APR 14	8.49	JUL 15	8.09	OCT 27	10.98
Well No.: WGW 344	**Site Identification No.: 413840071350801**								
AUG 28, 1997	20.13	NOV 12, 1997	20.05	FEB 16, 1998	18.56	MAY 20, 1998	16.33	AUG 26, 1998	18.12
SEP 17	20.13	DEC 09	20.17	MAR 25	16.95	JUN 25	16.08	SEP 29	18.94
OCT 16	20.65	JAN 14, 1998	19.64	APR 14	16.85	JUL 15	16.46	OCT 27	19.37
Well No.: WGW 345	**Site Identification No.: 413839071350701**								
AUG 28, 1997	27.92	NOV 12, 1997	27.89	FEB 16, 1998	26.33	MAY 20, 1998	24.03	AUG 26, 1998	25.92
SEP 17	27.89	DEC 09	27.96	MAR 25	24.65	JUN 25	23.87	SEP 29	26.74
OCT 16	28.45	JAN 14, 1998	27.45	APR 14	24.55	JUL 15	24.19	OCT 27	27.16
Well No.: WGW 346	**Site Identification No.: 413858071370901**								
OCT 17, 1997	10.73	JAN 15, 1998	9.27	APR 14, 1998	7.12	JUL 16, 1998	7.56	SEP 29, 1998	9.70
NOV 13	10.45	FEB 17	8.18	MAY 20	6.78	AUG 26	8.92	OCT 27	10.11
DEC 09	9.98	MAR 25	6.93	JUN 25	7.03				
Well No.: WGW 347	**Site Identification No.: 413858071370801**								
OCT 17, 1997	16.44	JAN 15, 1998	14.98	APR 14, 1998	12.80	JUL 16, 1998	13.25	SEP 29, 1998	15.40
NOV 13	16.17	FEB 17	13.89	MAY 20	12.51	AUG 26	14.62	OCT 27	15.81
DEC 09	15.70	MAR 25	12.60	JUN 25	12.72				
Well No.: WGW 348	**Site Identification No.: 413856071371101**								
SEP 25, 1997	17.74	DEC 09, 1997	17.04	MAR 25, 1998	13.78	JUN 25, 1998	13.88	SEP 29, 1998	16.82
OCT 17	17.90	JAN 15, 1998	16.35	APR 14	13.96	JUL 16	14.43	OCT 27	17.24
NOV 13	17.61	FEB 17	15.12	MAY 20	13.63	AUG 26	15.92		

Table 2. Selected water levels measured monthly in observation wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
Well No.: WGW 349		**Site Identification No.: 413854071370901**							
SEP 24, 1997	13.34	DEC 09, 1997	12.78	MAR 25, 1998	9.26	JUN 25, 1998	9.34	SEP 29, 1998	12.47
OCT 17	13.64	JAN 15, 1998	12.09	APR 14	9.41	JUL 16	9.91	OCT 27	12.93
NOV 13	13.38	FEB 17	10.72	MAY 20	9.08	AUG 26	11.51		
Well No.: WGW 350		**Site Identification No.: 413853071371601**							
OCT 17, 1997	33.86	JAN 15, 1998	32.12	APR 14, 1998	29.26	JUL 16, 1998	29.82	SEP 29, 1998	32.62
NOV 13	33.63	FEB 17	30.64	MAY 20	28.99	AUG 26	31.57	OCT 27	33.09
DEC 09	32.83	MAR 25	29.09	JUN 25	29.19				
Well No.: WGW 351		**Site Identification No.: 413859071371201**							
SEP 26, 1997	7.79	DEC 09, 1997	7.32	MAR 25, 1998	4.45	JUN 25, 1998	4.56	SEP 29, 1998	7.07
OCT 17	8.03	JAN 15, 1998	6.61	APR 14	4.64	JUL 16	5.08	OCT 27	7.46
NOV 13	7.76	FEB 17	5.62	MAY 20	4.38	AUG 26	6.34		
Well No.: WGW 352		**Site Identification No.: 413837071351001**							
OCT 30, 1997	30.42	JAN 14, 1998	29.24	APR 14, 1998	26.70	JUL 15, 1998	26.45	SEP 29, 1998	28.78
NOV 12	29.69	FEB 16	28.19	MAY 20	26.23	AUG 26	28.03	OCT 27	29.13
DEC 09	29.79	MAR 25	26.70	JUN 25	26.10				
Well No.: WGW 353		**Site Identification No.: 413836071351201**							
OCT 16, 1997	27.66	JAN 14, 1998	26.58	APR 14, 1998	24.17	JUL 15, 1998	23.96	SEP 29, 1998	26.21
NOV 12	27.03	FEB 17	25.47	MAY 20	23.73	AUG 26	25.49	OCT 27	26.54
DEC 09	27.10	MAR 25	24.14	JUN 25	23.60				

Table 3. Water levels measured monthly in streambed piezometers in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–98

[Site locations are shown on plate 1. Water levels are in feet below measuring point. COW, Coventry well; MP, altitude of measuring point datum (top of pipe) in feet above sea level; WGW, West Greenwich well; *, measured top of an ice plug; >, water level greater than depth of piezometer; --, no measurement]

Date	Water level		Date	Water level		Date	Water level	
	Ground water	Surface water		Ground water	Surface water		Ground water	Surface water
Piezometer No.: COW 478			**Site Identification No.: 414043071345201**			**MP: 242.58 feet**		
MAY 21, 1997	0.43	0.41	NOV 12, 1997	0.43	0.38	APR 13, 1998	0.24	0.26
JUN 18	.69	.66	DEC 09	.59	.57	MAY 19	.28	.29
JUL 16	.78	.71	JAN 14, 1998	.39	.37	JUN 26	.32	.33
AUG 28	.70	.65	FEB 17	.31	.33	JUL 16	.57	.54
SEP 18	.73	.68	MAR 25	.18	.18	AUG 25	.77	.72
OCT 15	.80	.75						
Piezometer No.: COW 481			**Site Identification No.: 413937071374201**			**MP: 254.49 feet**		
MAY 20, 1997	0.86	0.89	NOV 12, 1997	1.10	0.95	APR 13, 1998	0.68	0.84
JUN 17	1.03	1.04	DEC 09	1.09	.99	MAY 19	.73	.83
JUL 15	1.31	1.21	JAN 15, 1998	*.79	.82	JUN 26	.75	.83
AUG 27	1.25	1.16	FEB 17	.52	.70	JUL 16	1.01	1.02
SEP 18	1.29	1.13	MAR	--	--	AUG 25	1.24	1.17
OCT 15	1.31	1.14						
Piezometer No.: WGW 322			**Site Identification No.: 413735071375601**			**MP: 261.96 feet**		
MAY 20, 1997	1.35	1.33	NOV 12, 1997	1.55	1.51	APR 13, 1998	1.22	1.18
JUN 17	1.74	1.71	DEC 09	1.66	1.63	MAY 19	1.19	1.05
JUL 16	1.89	1.85	JAN 15, 1998	*1.30	1.32	JUN 25	1.12	1.09
AUG 27	1.80	1.76	FEB 17	1.27	1.23	JUL 15	1.56	1.52
SEP 18	1.88	1.83	MAR 25	1.00	.96	AUG 24	1.86	1.83
OCT 16	1.97	1.92						
Piezometer No.: WGW 323			**Site Identification No.: 413646071372001**			**MP: 271.88 feet**		
MAY 20, 1997	0.60	0.63	NOV 12, 1997	0.83	0.86	APR 13, 1998	0.50	0.55
JUN 17	.96	.98	DEC 09	.87	.90	MAY 19	.48	.51
JUL 15	1.31	1.31	JAN 15, 1998	*.57	.57	JUN 25	.34	.39
AUG 27	1.18	1.19	FEB 17	.59	.58	JUL 15	.79	.79
SEP 18	1.12	1.13	MAR 25	.36	.39	AUG 24	1.08	1.08
OCT 16	1.23	1.24						
Piezometer No.: WGW 324			**Site Identification No.: 413648071370801**			**MP: 264.33 feet**		
MAY 20, 1997	1.78	1.99	NOV 12, 1997	1.87	2.04	APR 13, 1998	1.75	1.97
JUN 17	1.90	2.05	DEC 09	1.89	2.05	MAY 19	1.76	1.91
JUL 15	1.91	2.06	JAN 15, 1998	*1.70	2.01	JUN 25	1.77	1.88
AUG 27	1.93	2.07	FEB 17	1.76	1.91	JUL 15	1.83	2.05
SEP 18	1.89	2.06	MAR 25	1.70	1.87	AUG 24	1.89	2.05
OCT 16	1.89	2.04						
Piezometer No.: WGW 325			**Site Identification No.: 413840071364801**			**MP: 249.28 feet**		
MAY 20, 1997	0.88	0.97	NOV 12, 1997	1.75	2.16	APR 13, 1998	0.48	0.87
JUN 17	1.40	1.48	DEC 09	2.18	2.35	MAY 19	.38	.76
JUL 15	2.30	>2.23	JAN 15, 1998	*1.35	1.63	JUN 25	.43	.53
AUG 27	1.93	2.01	FEB 17	1.58	1.68	JUL 15	.99	1.11
SEP 18	1.40	1.48	MAR 25	.21	.73	AUG 25	1.53	1.61
OCT 15	1.98	2.05						

Table 3. Water levels measured monthly in streambed piezometers in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–98—*Continued*

Date	Water level		Date	Water level		Date	Water level	
	Ground water	Surface water		Ground water	Surface water		Ground water	Surface water
Piezometer No.: WGW 326			**Site Identification No.: 413835071363201**			**MP: 250.40 feet**		
MAY 20, 1997	0.98	1.00	NOV 12, 1997	1.42	1.45	APR 13, 1998	0.66	0.70
JUN 17	1.71	1.78	DEC 09	1.60	1.62	MAY 19	.66	.69
JUL 15	2.01	2.04	JAN 15, 1998	.92	.95	JUN 25	.57	.60
AUG 27	1.78	1.83	FEB 17	.80	.82	JUL 16	1.37	1.41
SEP 17	1.92	1.96	MAR 25	.28	.31	AUG 24	1.86	1.86
OCT 16	2.01	2.02						
Piezometer No.: WGW 327			**Site Identification No.: 413755071370601**			**MP: 251.02 feet**		
MAY 20, 1997	0.33	0.59	NOV 1997	--	--	APR 1998	--	--
JUN 17	1.02	1.32	DEC	--	--	MAY	--	--
JUL 15	1.51	1.82	JAN 1998	--	--	JUN	--	--
AUG 27	vandalized		FEB	--	--	JUL	--	--
SEP	--	--	MAR	--	--	AUG	--	--
OCT	--	--						
Piezometer No.: WGW 328			**Site Identification No.: 413802071345301**			**MP: 264.35 feet**		
MAY 21, 1997	2.37	2.97	NOV 13, 1997	2.52	3.02	APR 13, 1998	2.16	2.75
JUN 18	2.57	3.18	DEC 09	* 2.53	3.03	MAY 19	2.20	2.73
JUL 15	2.86	3.60	JAN 14, 1998	2.38	2.81	JUN 25	2.22	2.72
AUG 28	2.71	3.31	FEB 17	2.26	2.85	JUL 15	2.55	3.08
SEP 17	2.60	3.20	MAR 24	2.03	2.65	AUG 24	2.86	3.85
OCT 16	2.82	3.20						
Piezometer No.: WGW 329			**Site Identification No.: 413855071343301**			**MP: 290.14 feet**		
MAY 21, 1997	3.01	0.26	NOV 12, 1997	3.61	0.10	APR 13, 1998	--	over top
JUN 17	>4.94	.55	DEC 09	3.62	.12	MAY 19	2.51	0.12
JUL 16	3.18	1.33	JAN 14, 1998	2.55	.03	JUN 25	4.87	.70
AUG 28	3.16	.58	FEB 17	2.02	2.08	JUL 15	>4.94	.86
SEP 17	4.94	.17	MAR 25	--	over top	AUG 26	>4.94	.55
OCT 16	2.99	1.45						
Piezometer No.: WGW 330			**Site Identification No.: 413850071344801**			**MP: 276.16 feet**		
MAY 21, 1997	0.75	0.71	NOV 12, 1997	0.77	0.77	APR 13, 1998	0.74	0.74
JUN 17	4.90	Dry	DEC 09	.81	.83	MAY 19	.78	.74
JUL 16	>5.00	Dry	JAN 14, 1998	*.64	.70	JUN 25	.76	.74
AUG 28	3.42	Dry	FEB 17	.88	.76	JUL 15	3.67	Dry
SEP 17	3.46	Dry	MAR 25	.67	.72	AUG 26	1.32	.70
OCT 16	4.78	Dry						
Piezometer No.: WGW 331			**Site Identification No.: 413842071350902**			**MP: 268.12 feet**		
MAY 21, 1997	>8.04	Dry	NOV 12, 1997	4.43	Dry	APR 13, 1998	3.59	Dry
JUN 18	>8.04	Dry	DEC 09	>8.04	Dry	MAY 19	4.24	Dry
JUL 16	>8.04	Dry	JAN 14, 1998	5.38	Dry	JUN 25	3.50	Dry
AUG 28	>8.04	Dry	FEB 17	4.73	Dry	JUL 15	5.36	Dry
SEP 17	>8.04	Dry	MAR 25	2.99	1.57	AUG 26	7.66	Dry
OCT 16	>8.04	Dry						

Table 3. Water levels measured monthly in streambed piezometers in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–98—*Continued*

Date	Water level		Date	Water level		Date	Water level	
	Ground water	Surface water		Ground water	Surface water		Ground water	Surface water
Piezometer No.: WGW 332			**Site Identification No.: 413923071360001**			**MP: 257.16 feet**		
MAY 21, 1997	1.16	1.07	NOV 12, 1997	1.31	1.09	APR 13, 1998	1.04	0.99
JUN 18	1.34	1.17	DEC 09	1.39	1.13	MAY 19	1.05	.99
JUL 16	1.48	1.19	JAN 15, 1998	1.13	1.16	JUN 26	1.05	.99
AUG	--	--	FEB 17	.99	.99	JUL 16	1.23	1.07
SEP 18	1.53	1.19	MAR 25	.94	.92	AUG 25	1.61	1.20
OCT 15	1.59	1.22						
Piezometer No.: WGW 333			**Site Identification No.: 413920071353001**			**MP: 250.43 feet**		
MAY 21, 1997	0.35	0.34	NOV 12, 1997	0.38	0.38	APR 13, 1998	0.35	0.37
JUN 18	.51	.45	DEC 09	.43	.33	MAY 19	.34	.30
JUL 16	.65	.57	JAN 15, 1998	.41	.37	JUN 26	.37	.32
AUG 28	.66	.63	FEB 17	.31	.33	JUL 16	.45	.37
SEP 18	.71	.65	MAR 25	.32	.30	AUG 25	.62	.47
OCT 15	.66	.57						
Piezometer No.: WGW 335			**Site Identification No.: 413732071355201**			**MP: 282.55 feet**		
MAY 20, 1997	1.29	1.33	NOV 12, 1997	1.75	1.79	APR 1998	--	--
JUN 18	1.51	1.53	DEC	--	--	MAY	--	--
JUL 15	3.00	2.99	JAN 1998	--	--	JUN	--	--
AUG 27	3.51	3.56	FEB	--	--	JUL	--	--
SEP 17	3.66	3.72	MAR	--	--	AUG	--	--
OCT 16	4.97	4.90						

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938–96

[Site locations are shown on plate 1. **Well No.:** COW, Coventry well; EXW, Exeter well; WGW, West Greenwich well. Latitude and longitude are in degrees, minutes, and seconds. Water levels in feet below land surface. No., Number; -, indicates water level above land surface]

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
COW 34	41 40 22	71 38 14	414022071381401	7-19-47	22
COW 51	41 40 02	71 39 59	414002071395901	10-13-49	15.06
COW 61	41 40 51	71 35 22	414051071352201	8-10-51	15
COW 65	41 40 31	71 36 46	414031071364601	8-13-51	30.2
COW 66	41 40 38	71 36 49	414038071364901	1948	16
COW 77	41 40 04	71 34 10	414004071341001	5-01-45	25
				8-14-51	25
COW 93	41 39 53	71 36 06	413953071360601	8-22-51	6
COW 94	41 40 08	71 36 03	414008071360301	8-22-51	15
COW 95	41 40 02	71 36 10	414002071361001	8-22-51	13
COW 98	41 39 49	71 37 24	413949071372401	9-04-51	12.4
COW 101	41 40 03	71 37 27	414003071372701	9-04-51	17
COW 102	41 39 59	71 36 49	413959071364901	9-04-51	15
COW 104	41 40 10	71 36 08	414010071360801	9-04-51	26
COW 130	41 40 24	71 35 44	414024071354401	9-06-51	6.68
COW 136	41 40 03	71 36 57	414003071365701	9-01-51	22
COW 154	41 40 02	71 34 16	414002071341601	6-24-52	7.4
COW 158	41 40 00	71 36 04	414000071360401	4-01-50	24
COW 205	41 40 35	71 39 08	414035071390801	6-16-53	10.1
COW 206	41 40 33	71 38 59	414033071385901	1950	30
COW 207	41 40 33	71 38 51	414033071385101	1949	30
COW 209	41 40 23	71 38 21	414023071382101	6-17-53	19.98
COW 211	41 40 07	71 37 36	414007071373601	1948	8
COW 212	41 40 06	71 37 37	414006071373701	6-01-53	8
				6-17-53	7.5
COW 216	41 40 37	71 40 00	414037071400001	6-23-53	10.9
				6-23-63	10.9
COW 217	41 40 26	71 40 01	414026071400101	6-23-53	8.1
COW 218	41 40 11	71 40 00	414011071400001	6-23-53	4.6
COW 219	41 39 55	71 37 41	413955071374101	6-23-53	18.9
COW 220	41 39 48	71 37 59	413948071375901	6-23-53	14.49
COW 221	41 39 45	71 37 47	413945071374701	6-23-53	7
COW 222	41 39 36	71 37 37	413936071373701	6-23-53	10
COW 228	41 40 46	71 38 09	414046071380901	7-02-53	9.6
COW 241	41 39 32	71 39 38	413932071393801	7-06-53	11.3
COW 422	41 40 21	71 35 47	414021071354701	5-15-62	11
COW 423	41 40 13	71 35 59	414013071355901	5-15-62	6
COW 424	41 40 23	71 36 28	414023071362801	5-15-62	10
COW 425	41 40 01	71 36 46	414001071364601	5-16-62	5
COW 426	41 39 45	71 36 10	413945071361001	5-16-62	5

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
COW 435	41 39 44	71 35 59	413944071355901	3-18-64	3.4
COW 436	41 39 43	71 36 00	413943071360001	3-19-64	3.4
COW 437	41 39 47	71 35 58	413947071355801	4-23-64	1.3
COW 438	41 39 46	71 35 59	413946071355901	3-24-64	2.2
COW 439	41 39 47	71 35 54	413947071355401	3-25-64	2.2
COW 442	41 39 43	71 35 57	413943071355701	3-31-64	1.08
COW 443	41 39 42	71 36 01	413942071360102	4-23-64	-.32
COW 446	41 39 47	71 36 01	413947071360101	4-07-64	3.3
COW 448	41 39 43	71 35 57	413943071355702	4-29-64	.5
COW 449	41 39 44	71 35 52	413944071355201	5-18-64	3.2
COW 453	41 39 46	71 36 03	413946071360301	5-27-64	6.3
COW 454	41 39 45	71 36 02	413945071360201	5-28-64	6.2
COW 455	41 39 42	71 35 51	413942071355101	5-26-64	4.2
COW 456	41 39 41	71 36 05	413941071360501	6-04-64	4.5
COW 457	41 39 40	71 36 04	413940071360401	6-06-64	5
COW 459	41 39 42	71 36 04	413942071360401	6-11-64	4.7
COW 460	41 39 42	71 36 01	413942071360101	6-01-64	1
COW 461	41 39 42	71 36 01	413942071360103	2-08-65	2
COW 467	41 39 41	71 35 28	413941071352801	7-13-94	0
COW 468	41 40 07	71 35 34	414007071353401	7-26-94	4
COW 469	41 39 56	71 35 30	413956071353001	7-28-94	1.6
COW 470	41 40 02	71 35 29	414002071352901	11-30-94	1.89
COW 471	41 39 52	71 35 59	413952071355901	12-19-94	6.5
COW 472	41 39 50	71 35 59	413950071355901	12-22-94	5.9
COW 473	41 39 36	71 35 44	413936071354401	7-05-94	4.28
COW 474	41 39 37	71 35 36	413937071353601	12-14-94	3.8
COW 475	41 39 37	71 35 36	413937071353602	12-03-94	3.8
COW 476	41 39 37	71 35 34	413937071353401	12-12-94	2.3
COW 477	41 39 37	71 35 36	413937071353603	4-17-95	4.7
COW 480	41 39 45	71 35 37	413945071353701	7-11-94	4.9
EXW 96	41 35 06	71 37 08	413506071370801	1-15-59	18
EXW 192	41 35 49	71 39 14	413549071391401	11-12-53	20.2
EXW 196	41 35 59	71 38 24	413559071382401	11-13-53	20.9
EXW 340	41 36 02	71 36 42	413602071364201	9-17-53	29.84
EXW 340	41 36 02	71 36 42	413602071364201	9-17-54	29.84
EXW 341	41 35 33	71 36 59	413533071365901	9-20-54	14.3
EXW 342	41 35 35	71 36 58	413535071365801	9-20-54	7
EXW 343	41 35 42	71 37 24	413542071372401	9-20-54	9.6
EXW 344	41 35 38	71 37 24	413538071372401	9-20-54	7.5
EXW 345	41 35 17	71 37 07	413517071370701	9-20-54	5.8
WGW 5	41 38 59	71 39 44	413859071394401	10-13-49	13.1
WGW 14	41 38 58	71 34 31	413858071343101	8-08-51	13.4
WGW 15	41 39 15	71 33 17	413915071331701	8-08-51	32
WGW 17	41 39 07	71 34 04	413907071340401	8-08-51	14
WGW 19	41 39 35	71 34 30	413935071343001	1947	16

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 20	41 37 33	71 34 03	413733071340301	8-09-51	65
WGW 21	41 39 06	71 35 32	413906071353201	8-09-51	22
WGW 22	41 39 07	71 35 13	413907071351301	8-09-51	3
WGW 24	41 39 19	71 35 21	413919071352101	8-09-51	8
WGW 26	41 39 19	71 34 40	413919071344001	8-09-51	35
WGW 27	41 39 15	71 34 36	413915071343601	7-01-51	40
WGW 28	41 39 15	71 34 40	413915071344001	8-09-51	35
WGW 29	41 39 37	71 34 22	413937071342201	8-09-51	25
WGW 30	41 38 36	71 37 27	413836071372701	8-21-51	12
WGW 32	41 38 23	71 37 28	413823071372801	11-01-49	14
WGW 33	41 38 26	71 37 25	413826071372501	7-01-49	20
WGW 34	41 38 36	71 37 03	413836071370301	8-22-51	15.5
WGW 35	41 38 36	71 37 11	413836071371101	8-22-51	27
WGW 36	41 38 47	71 36 36	413847071363601	12-17-38	16
WGW 37	41 38 54	71 36 17	413854071361701	8-22-51	1
WGW 38	41 39 23	71 36 15	413923071361501	8-22-51	18
WGW 39	41 39 33	71 36 12	413933071361201	8-22-51	5.5
WGW 40	41 39 21	71 35 50	413921071355001	8-22-51	5
WGW 41	41 39 29	71 36 07	413929071360701	8-22-51	5
WGW 42	41 38 35	71 36 28	413835071362802	1948	8
WGW 43	41 37 36	71 35 27	413736071352701	8-23-51	11.6
WGW 44	41 37 58	71 34 55	413758071345501	8-23-51	16
WGW 45	41 38 06	71 34 42	413806071344201	8-23-51	19.3
WGW 49	41 38 46	71 34 00	413846071340001	8-23-51	22
WGW 51	41 38 13	71 34 26	413813071342601	8-28-51	8
WGW 53	41 37 45	71 35 57	413745071355701	8-29-51	14
WGW 55	41 39 17	71 35 59	413917071355901	8-08-51	6.6
WGW 56	41 38 51	71 35 51	413851071355101	6-30-52	18.8
WGW 57	41 38 45	71 35 27	413845071352701	6-30-52	4.91
WGW 58	41 38 45	71 35 10	413845071351001	6-30-52	16.91
WGW 60	41 37 59	71 36 37	413759071363701	7-29-52	13
WGW 61	41 38 07	71 36 38	413807071363801	7-29-52	5
WGW 73	41 38 17	71 40 06	413817071400601	5-21-53	16.6
WGW 74	41 38 44	71 40 09	413844071400901	5-21-53	19.92
WGW 75	41 39 00	71 39 57	413900071395701	5-21-53	5.5
WGW 76	41 38 41	71 40 59	413841071405901	5-21-53	4
WGW 79	41 38 45	71 40 11	413845071401101	5-22-53	15.85
WGW 80	41 38 59	71 40 50	413859071405001	9-01-51	35
WGW 81	41 39 03	71 39 14	413903071391401	5-22-53	7.66
WGW 82	41 39 02	71 38 44	413902071384401	5-22-53	8.94
WGW 93	41 39 28	71 41 33	413928071413301	5-25-53	7.2
WGW 94	41 38 40	71 37 39	413840071373901	1944	8
WGW 95	41 38 49	71 37 42	413849071374201	5-26-53	14.99
WGW 96	41 38 50	71 37 48	413850071374801	5-26-53	15
WGW 97	41 38 48	71 37 45	413848071374501	1944	8

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 99	41 38 34	71 37 31	413834071373101	5-26-53	12
WGW 100	41 38 58	71 38 00	413858071380001	5-26-53	12.2
WGW 101	41 38 53	71 38 22	413853071382201	5-26-53	3.8
WGW 107	41 39 23	71 40 38	413923071403801	6-02-53	5.66
WGW 108	41 39 28	71 40 39	413928071403901	6-02-53	14.38
WGW 109	41 39 05	71 40 20	413905071402001	6-02-53	9.1
WGW 111	41 38 22	71 37 31	413822071373101	6-08-53	23
WGW 116	41 37 50	71 37 45	413750071374501	6-08-53	14.2
WGW 117	41 37 45	71 37 41	413745071374101	6-07-53	7
WGW 118	41 37 54	71 37 46	413754071374601	6-03-53	2
WGW 119	41 37 31	71 38 04	413731071380401	6-09-53	13.5
WGW 122	41 37 52	71 37 55	413752071375501	6-09-53	17
WGW 123	41 39 15	71 39 50	413915071395001	7-06-53	23
WGW 124	41 39 26	71 39 45	413926071394501	7-06-53	11.4
WGW 125	41 39 31	71 39 40	413931071394001	7-06-53	11
WGW 126	41 39 33	71 38 10	413933071381001	7-06-53	16
WGW 152	41 37 30	71 40 14	413730071401401	9-03-53	21.71
WGW 153	41 37 24	71 40 11	413724071401101	9-03-53	16.4
WGW 154	41 37 03	71 39 44	413703071394401	9-03-53	15.8
WGW 155	41 37 16	71 39 23	413716071392301	9-04-53	20
WGW 156	41 37 06	71 38 25	413706071382501	9-04-53	12.33
WGW 157	41 37 05	71 38 25	413705071382501	9-04-53	8.8
WGW 158	41 36 59	71 38 10	413659071381001	9-04-53	16
WGW 159	41 36 57	71 38 12	413657071381201	9-04-53	12.4
WGW 160	41 36 52	71 37 59	413652071375901	9-04-53	29.74
WGW 161	41 36 44	71 37 49	413644071374901	9-04-53	13.15
WGW 186	41 36 30	71 39 49	413630071394901	11-12-53	11.61
WGW 187	41 36 19	71 39 17	413619071391701	11-12-53	19.23
WGW 188	41 36 40	71 39 54	413640071395401	11-12-53	19.49
WGW 189	41 36 36	71 39 54	413636071395401	11-12-53	17.3
WGW 190	41 36 47	71 39 50	413647071395001	11-12-53	11.19
WGW 193	41 36 09	71 38 38	413609071383801	11-23-53	16.5
WGW 194	41 36 37	71 38 19	413637071381901	11-23-53	17.5
WGW 195	41 36 43	71 38 16	413643071381601	11-01-53	7
WGW 196	41 37 04	71 38 10	413704071381001	11-23-53	10.64
WGW 198	41 37 14	71 38 12	413714071381201	11-23-53	10.15
WGW 199	41 37 21	71 38 10	413721071381001	11-23-53	8.65
WGW 200	41 37 31	71 38 02	413731071380201	11-23-53	7.92
WGW 209	41 37 20	71 33 59	413720071335901	9-16-54	12
WGW 210	41 36 07	71 36 19	413607071361901	9-17-54	6.81
WGW 211	41 36 17	71 36 29	413617071362901	9-17-54	11
				9-23-54	10.79
				9-30-54	10.82
				10-07-54	11.03
				10-15-54	11.2

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 211—*Continued*				10-22-54	11.4
				10-29-54	11.52
				11-05-54	11.49
				11-12-54	11.34
				11-19-54	11.46
				11-26-54	11.28
				12-28-54	9.84
				1-27-55	9.93
				2-25-55	9.86
				3-29-55	9.58
				4-28-55	10.38
				5-27-55	10.84
				6-29-55	11.74
				7-28-55	12.57
				9-01-55	12.77
				9-29-55	13.48
				10-28-55	11.3
				11-29-55	9.65
				12-30-55	10.48
				1-27-56	10.68
				2-29-56	10.03
				3-29-56	9.62
				4-27-56	8.65
				5-28-56	9.75
				6-27-56	10.69
				7-30-56	11.67
				8-29-56	12.74
				9-26-56	13.7
				10-25-56	14.46
				11-27-56	15.13
				12-26-56	14.3
				1-30-57	13.64
				2-27-57	13.15
				3-28-57	12.55
				4-29-57	11.07
				5-28-57	11.63
				6-27-57	12.45
				7-31-57	13.64
				8-29-57	14.68
				9-26-57	15.56
				10-30-57	Dry
				11-27-57	Dry
				12-30-57	15.27
				2-04-58	12.62
				3-06-58	11.4

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 211—*Continued*				4-02-58	9.93
				4-25-58	8.49
				5-23-58	8.27
				6-27-58	9.46
				7-30-58	10.8
				8-27-58	11.73
				9-25-58	12.42
				10-23-58	12.48
				11-21-58	12.27
				12-29-58	12.37
				1-29-59	12.53
				2-26-59	12.09
				10-02-61	11.49
				10-10-61	10.81
				10-17-61	11.47
				10-24-61	11.6
				10-31-61	11.74
				11-07-61	11.95
				11-14-61	12.14
				11-21-61	12.3
				11-28-61	12.29
				12-05-61	12.27
				12-12-61	12.41
				12-19-61	12.51
				12-26-61	12.51
				1-02-62	12.45
				1-09-62	11.91
				1-16-62	11.33
				1-23-62	11.08
				1-30-62	11
				2-06-62	11.12
				2-13-62	11.29
				2-20-62	11.44
				2-27-62	11.51
				3-07-62	11.53
				3-13-62	10.9
				3-20-62	10.66
				3-27-62	10.39
				4-03-62	9.87
				4-10-62	9.39
				4-17-62	9.28
				4-24-62	9.43
				5-01-62	9.69
				5-08-62	9.94
				5-15-62	10.18

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 211—*Continued*				5-22-62	10.32
				5-29-62	10.56
				6-05-62	10.74
				6-12-62	10.37
				6-19-62	10.55
				6-26-62	10.72
				7-03-62	10.87
				7-10-62	11.1
				7-17-62	11.32
				7-24-62	11.55
				7-31-62	11.7
				8-07-62	12.01
				8-14-62	12.23
				8-21-62	12.49
				8-28-62	12.71
				9-01-62	12.84
				9-08-62	13.06
				9-15-62	13.1
				9-22-62	13.5
				9-29-62	13.7
				10-8-62	13.35
				10-13-62	12.83
				10-20-62	12.78
				10-27-62	12.86
				11-04-62	12.86
				11-11-62	12.6
				11-17-62	12.22
				11-24-62	12.02
				12-01-62	11.7
				12-08-62	11.56
				12-15-62	11.33
				12-22-62	11.17
				12-29-62	11.19
				2-23-63	10.96
				3-02-63	11.02
				3-09-63	10.74
				3-16-63	10.63
				3-23-63	10.6
				3-30-63	10.5
				4-06-63	11.28
				4-13-63	11.36
				4-20-63	11.47
				4-27-63	12.14
				5-04-63	11.6
				5-11-63	11.44

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 211—*Continued*				5-18-63	11.48
				5-25-63	11.46
				6-01-63	11.54
				6-08-63	11.55
				6-15-63	11.69
				6-22-63	11.82
				6-28-63	11.96
				7-05-63	12.12
				7-12-63	12.33
				7-19-63	12.51
				7-26-63	12.72
				8-02-63	13
				8-09-63	13.11
				8-16-63	13.34
				8-23-63	13.54
				8-30-63	13.77
				9-07-63	14.04
				9-14-63	14.26
				9-21-63	14.47
				9-28-63	14.71
				10-05-63	14.91
				10-12-63	Dry
				10-19-63	Dry
				10-26-63	Dry
				11-02-63	Dry
				11-09-63	Dry
				11-16-63	Dry
				11-23-63	Dry
				11-30-63	Dry
				12-07-63	Dry
				12-14-63	Dry
WGW 216	41 36 54	71 36 56	413654071365601	9-17-54	18.02
WGW 217	41 36 53	71 36 54	413653071365401	9-17-54	16.37
WGW 229	41 39 13	71 35 12	413913071351201	4-01-52	30
WGW 230	41 39 19	71 35 38	413919071353801	9-01-53	2
WGW 243	41 39 03	71 36 23	413903071362301	2-01-56	11.8
WGW 271	41 38 42	71 36 43	413842071364301	5-16-62	25
WGW 272	41 38 39	71 37 00	413839071370001	5-16-62	15
WGW 273	41 38 00	71 36 38	413800071363801	5-17-62	10
WGW 274	41 38 54	71 36 04	413854071360401	5-18-62	15
WGW 275	41 38 50	71 35 39	413850071353901	5-18-62	9
WGW 276	41 38 47	71 35 12	413847071351201	5-18-62	12
WGW 278	41 39 07	71 34 01	413907071340101	5-22-62	7
WGW 380	41 39 54	71 36 03	413954071360301	3-25-76	42
WGW 382	41 38 57	71 35 33	413857071353301	7-09-76	22.83

Table 4. Historical water levels measured from wells in the Big–Mishnock stream-aquifer system, central Rhode Island, 1938-96—*Continued*

Well No.	Latitude ° ′ ″	Longitude ° ′ ″	Site identification No.	Date	Water level (feet)
WGW 384	41 38 56	71 35 04	413856071350401	8-26-76	10.5
WGW 386	41 38 54	71 34 38	413854071343801	3-26-76	22
WGW 387	41 39 04	71 34 27	413904071342701	4-13-76	9.5
WGW 388	41 39 04	71 34 03	413904071340301	4-12-76	4
WGW 389	41 39 13	71 33 50	413913071335001	4-02-76	32
WGW 390	41 38 36	71 34 07	413836071340701	6-21-76	12
WGW 391	41 38 39	71 34 30	413839071343001	6-22-76	42.5
WGW 393	41 39 14	71 36 00	413914071360001	8-04-83	8
WGW 394	41 39 04	71 36 08	413904071360801	8-01-83	14.5
WGW 396	41 39 14	71 35 37	413914071353701	8-31-83	3
WGW 399	41 39 05	71 35 26	413905071352601	8-25-83	13.75
WGW 401	41 38 41	71 35 21	413841071352101	9-14-83	5.6
WGW 402	41 38 56	71 35 06	413856071350601	9-14-83	50
WGW 403	41 38 45	71 35 04	413845071350401	9-01-83	17.5
WGW 404	41 39 10	71 34 54	413910071345401	8-05-83	51
WGW 406	41 38 51	71 34 41	413851071344101	8-17-83	24
WGW 408	41 38 59	71 34 30	413859071343001	8-16-83	14.8

Table 5. Average daily withdrawal rates by month from public-supply wells in the Mishnock River Basin, central Rhode Island, 1995–99

[Site locations are shown on plate 1. Withdrawal rates in million gallons per day. COW, Coventry well; No., number]

Year	Average daily withdrawal rates												Annual average daily with-drawal rates
	January	February	March	April	May	June	July	August	September	October	November	December	
Kent County Water Authority—Mishnock Well #1, Well No. COW 461													
1995	0.55	0.53	0.36	0.82	0.80	0.25	0.16	0.56	0	0	0	0	0.34
1996	.11	.56	.35	.45	.39	0	0	0	0	0	0	0	.15
1997	0	0	0	0	0	.01	.52	.45	.45	.49	.54	.53	.25
1998	.54	.54	.50	.54	.50	.40	.18	.37	.45	.45	.41	.44	.44
1999	.45	.48	.53	.53	.55	.51	.48	.47	.47	.50	.55	.54	.50
Kent County Water Authority—Mishnock Well #2, Well No. COW 462													
1995	.56	.56	.23	0	0	.92	.83	.10	.69	.70	.66	.62	.49
1996	.47	.02	.29	.17	.24	.65	.64	.62	.60	.60	.59	.57	.46
1997	.57	.57	.56	.58	.60	.58	.25	.52	.50	.02	0	0	.39
1998	0	0	0	0	.13	.14	.55	.52	.37	.43	.40	.41	.25
1999	.42	.35	0	0	0	.35	.46	.42	.46	.29	0	0	.23

Table 6. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 354, central Rhode Island, July 1998

[Site locations are shown on plate 1. WGW 354 (West Greenwich well) was pumped at 350 gallons per minute for 48 hours. D, radial distance from pumped well in feet; MP, altitude of measuring point datum at local well in feet above sea level; min, minutes; --, no data available]

Date	Time (min)	Water level (feet below measuring point)									
		Pumped well	Observation well								
		WGW 354 MP 264.27	WGW 312 D 4.8 MP 264.54	WGW 336 D 72 MP 262.84	WGW 341 D 155 MP 263.90	WGW 337 D 165 MP 261.61	WGW 339 D 189 MP 263.66	WGW 340 D 271 MP 266.59	WGW 338 D 321 MP 263.82	WGW 306 D 1,000 MP 285.38	WGW 307 D 1,300 MP 272.15
Prior to pumping											
7-15-98	--	--	4.67	3.00	4.38	1.80	4.14	7.09	3.67	23.92	9.32
7-17-98	--	4.54	4.74	3.06	4.45	1.86	4.21	7.16	3.74	23.99	9.42
7-20-98	--	4.54	--	3.17	4.54	1.96	4.32	7.27	3.85	24.13	9.59
7-21-98	--	4.59	--	3.18	4.58	1.98	4.33	7.29	3.88	24.17	9.65
Pumping begins											
7-21-98	0	4.54	--	3.18	4.58	1.98	4.33	7.29	3.88	24.17	9.65
	.25	--	--	3.26	4.68	1.99	4.34	7.29	3.88	--	--
	.5	--	8.83	3.52	4.93	2.08	4.40	7.31	3.89	--	--
	.75	--	--	3.86	5.42	2.19	4.49	7.32	3.90	--	--
	1	--	10.23	4.18	7.74	2.29	4.58	7.36	3.93	--	--
	1.5	--	11.12	4.68	6.36	2.45	4.75	7.40	3.99	--	--
	2	--	11.42	4.98	6.79	2.57	4.87	7.46	4.05	--	--
	3	--	11.86	5.33	7.32	2.73	5.02	7.56	4.13	--	--
	4	--	12.13	5.53	7.63	2.85	5.13	7.63	4.22	--	--
	5	--	12.32	5.66	7.81	2.94	5.22	7.69	4.28	--	--
	6	84.33	--	5.77	7.94	3.02	5.29	7.74	4.34	--	--
	7	--	12.58	5.86	8.03	3.07	5.33	7.79	4.38	--	--
	8	--	12.65	5.92	8.11	3.12	5.39	7.83	4.42	--	--
	9	--	12.70	5.98	8.17	3.16	5.44	7.87	4.46	--	--
	10	--	12.75	6.02	8.22	3.20	5.47	7.91	4.49	--	--
	11	83.06	--	--	--	--	--	--	--	--	--
	12	--	--	6.08	8.30	3.26	5.53	7.97	4.54	--	--
	13		13.30	--	--	--	--	--	--	--	--
	14	--	--	6.35	8.61	3.40	5.65	8.04	4.60	--	--
	16	--	--	6.48	8.77	3.47	5.74	8.11	4.67	--	--

Table 6. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 354, central Rhode Island, July 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)										
		Pumped well	Observation well									
		WGW 354 MP 264.27	WGW 312 D 4.8 MP 264.54	WGW 336 D 72 MP 262.84	WGW 341 D 155 MP 263.90	WGW 337 D 165 MP 261.61	WGW 339 D 189 MP 263.66	WGW 340 D 271 MP 266.59	WGW 338 D 321 MP 263.82	WGW 306 D 1,000 MP 285.38	WGW 307 D 1,300 MP 272.15
Pumping—*Continued*												
7-21-98	18		13.30	6.45	8.72	3.50	5.77	8.16	4.70	--	--
	19	86.00	--	--	--	--	--	--	--	--	--
	20	--	--	6.41	8.66	3.52	5.79	8.19	4.73	--	--
	23	--	13.16	6.39	8.62	3.53	5.81	8.23	4.76	--	--
	26	--	--	6.42	8.63	3.55	5.84	8.27	4.78	--	--
	30	85.58	13.23	6.45	8.67	3.61	5.88	8.31	4.82	--	--
	35	85.50	13.28	6.48	8.70	3.64	5.93	8.35	4.85	--	--
	40	85.30	--	6.51	8.74	3.68	5.96	8.39	4.88	--	--
	45	--	13.30	6.54	8.76	3.69	5.99	8.42	4.90	--	--
	50	85.44	13.31	6.56	8.79	3.72	6.02	8.44	4.93	--	--
	60	85.41	13.34	6.59	8.81	3.74	6.06	8.48	4.95	--	--
	70	85.40	13.35	6.61	8.85	3.75	6.09	8.52	4.97	--	9.76
	80	85.40	13.36	6.63	8.85	3.77	6.10	--	4.99	24.36	--
	90	85.42	13.39	6.64	8.88	3.81	6.11	8.54	5.01	--	--
	100	85.43	13.40	6.66	8.90	3.81	6.13	--	5.02	--	--
	120	85.90	13.46	6.68	8.92	3.83	6.17	8.58	5.04	--	--
	150	85.73	13.45	6.71	8.94	3.85	6.19	8.61	5.06	24.39	9.79
	180	85.30	13.42	6.71	8.93	3.86	6.20	8.63	5.08	--	--
	210	85.40	13.45	6.72	8.94	3.87	6.21	8.64	5.09	--	--
	240	85.39	13.44	6.74	8.95	3.89	6.22	8.65	5.09	--	--
	300	85.35	13.45	6.75	8.97	3.90	6.24	8.67	5.11	24.55	9.82
	360	85.35	13.47	6.76	8.98	3.91	6.25	8.68	5.12	--	--
	420	85.33	13.45	6.77	8.99	3.92	6.26	8.69	5.13	--	9.85
	480	85.31	13.45	6.78	9.00	3.93	6.27	8.70	5.14	24.57	--
	540	85.31	13.46	6.79	9.01	3.93	6.29	8.72	5.16	24.59	9.86

Table 6. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 354, central Rhode Island, July 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)									
		Pumped well	Observation well								
		WGW 354 MP 264.27	WGW 312 D 4.8 MP 264.54	WGW 336 D 72 MP 262.84	WGW 341 D 155 MP 263.90	WGW 337 D 165 MP 261.61	WGW 339 D 189 MP 263.66	WGW 340 D 271 MP 266.59	WGW 338 D 321 MP 263.82	WGW 306 D 1,000 MP 285.38	WGW 307 D 1,300 MP 272.15
Pumping—*Continued*											
7-21-98	600	85.32	13.47	6.79	9.02	3.94	6.30	8.72	5.16	--	--
	660	87.03	13.56	6.86	9.10	3.98	6.32	8.75	5.18	24.61	9.87
	720	85.29	13.50	6.81	9.03	3.96	6.30	8.74	5.17	--	--
	780	85.30	13.49	6.81	9.04	3.97	6.30	8.73	5.18	24.61	9.88
	840	85.26	13.47	6.81	9.04	3.98	6.31	8.74	5.18	--	--
7-22-98	900	85.34	13.50	6.81	9.03	3.97	6.31	8.74	5.18	24.61	9.88
	960	85.34	13.50	6.82	9.04	3.98	6.32	8.75	5.18	--	--
	1,020	85.36	13.50	6.83	9.04	3.98	6.32	8.75	5.19	24.61	9.88
	1,080	85.40	13.51	6.83	9.05	3.99	6.32	8.75	5.19	--	--
	1,140	85.45	13.50	6.84	9.05	3.99	6.32	8.76	5.20	24.62	9.90
	1,200	85.50	13.52	6.85	9.06	4.00	6.33	8.76	5.21	--	--
	1,260	85.44	13.52	6.85	9.06	4.00	6.34	8.77	5.21	24.63	9.90
	1,320	86.59	13.61	6.89	9.12	4.03	6.36	8.79	5.23	--	--
	1,380	85.56	13.53	6.87	9.08	4.02	6.36	8.79	5.23	24.65	9.92
	1,440	85.56	13.55	6.88	9.09	4.03	6.36	8.79	5.24	--	--
	1,500	85.59	13.55	6.89	9.10	4.04	6.37	8.80	5.24	--	--
	1,560	85.87	13.57	6.90	9.12	4.05	6.38	8.82	5.25	24.66	9.93
	1,620	85.88	13.59	6.91	9.13	4.06	6.39	8.82	5.26	--	--
	1,680	85.92	13.60	6.92	9.13	4.07	6.40	8.82	5.27	24.67	9.95
	1,740	85.96	13.60	6.92	9.14	4.07	6.41	8.84	5.28	--	--
	1,800	85.97	13.60	6.93	9.15	4.07	6.41	8.85	5.28	--	--
	1,860	85.95	13.61	6.93	9.15	4.08	6.42	8.85	5.29	--	--
	1,920	85.97	13.62	6.95	9.16	4.09	6.43	8.86	5.28	24.69	9.96
	2,040	85.98	13.63	6.98	9.17	4.10	6.44	8.87	5.30	24.71	9.98
	2,100	85.99	13.64	6.96	9.19	4.10	6.44	8.87	5.30	--	--

Table 6. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 354, central Rhode Island, July 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)										
		Pumped well	Observation well									
		WGW 354 MP 264.27	WGW 312 D 4.8 MP 264.54	WGW 336 D 72 MP 262.84	WGW 341 D 155 MP 263.90	WGW 337 D 165 MP 261.61	WGW 339 D 189 MP 263.66	WGW 340 D 271 MP 266.59	WGW 338 D 321 MP 263.82	WGW 306 D 1,000 MP 285.38	WGW 307 D 1,300 MP 272.15
Pumping—*Continued*												
7-22-98	2,160	86.00	13.64	6.96	9.19	4.12	6.46	8.88	5.31	--	--
	2,220	86.02	13.64	6.96	9.19	4.12	6.45	8.88	5.32	--	--
	2,280	85.96	13.63	6.97	9.19	4.12	6.46	8.88	5.31	24.72	10.01
	2,340	85.96	13.63	6.97	9.18	4.11	6.45	8.88	5.32	--	--
	2,400	85.96	13.63	6.96	9.18	4.11	6.45	8.88	5.32	--	--
	2,460	85.95	13.63	6.96	9.18	4.12	6.45	8.88	5.32	--	--
	2,520	85.96	13.63	6.97	9.18	4.12	6.45	8.88	5.32	24.72	10.01
	2,580	85.91	13.63	6.97	9.18	4.12	6.45	8.88	5.32	--	--
	2,640	85.90	13.64	6.97	9.19	4.13	6.46	8.89	5.33	--	--
	2,700	85.90	13.63	6.97	9.19	4.13	6.46	8.90	5.33	24.73	10.01
	2,760	85.90	13.63	6.98	9.20	4.13	6.46	8.90	5.33	--	--
	2,820	85.90	13.66	6.98	9.19	4.14	6.46	8.91	5.34	24.74	10.02
	2,885	85.90	--	7.02	9.24	4.14	6.47	8.92	5.35	--	--
	2,890	--	13.66	--	9.21	--	6.47	8.92	5.35	--	--

Table 7. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 355, central Rhode Island, February 1998

[Site locations are shown on plate 1. WGW 355 (West Greenwich well) was pumped at 400 gallons per minute for 48 hours. D, radial distance from pumped well in feet; MP, altitude of measuring point datum at local well in feet above sea level; min, minutes; --, no data available]

Date	Time (min)	Water level (feet below measuring point)										
		Pumped well	Observation well									
		WGW 355 MP 271.84	WGW 307 D 2 MP 272.15	WGW 343 D 102 MP 272.34	WGW 344 D 200 MP 281.54	WGW 301 D 300 MP 273.47	WGW 306 D 643 MP 285.38	WGW 338 D 977 MP 263.82	WGW 337 D 1,133 MP 261.61	WGW 312 D 1,306 MP 264.54	WGW 341 D 1,457 MP 263.90
Prior to pumping												
1-30-98	--	--	--	11.85	20.99	13.46	25.25	4.69	2.62	5.39	5.04
1-31-98	--	--	--	11.85	20.98	13.47	25.26	4.69	2.64	5.41	5.05
2-01-98	--	--	--	11.84	20.97	13.48	25.26	4.71	2.65	5.42	5.07
2-02-98	--	--	--	11.83	20.96	13.47	25.27	4.70	2.64	5.42	5.07
Pumping begins												
2-02-98	0	11.47	25.27	11.83	20.96	13.47	25.27	--	2.90	5.42	5.07
	.25	--	25.27	11.99	20.98	13.47	25.27	--	--	--	--
	.5	--	25.27	12.22		13.47	25.27	--	--	--	--
	.75	--	25.27	12.43	21.04	13.54	25.27	--	--	--	--
	1	--	25.28	12.55		13.63	25.28	--	--	--	--
	1.5	--	25.29	12.79	21.25	13.80	25.29	--	--	--	--
	2	--	25.32	13.40	21.46	14.00	25.32	--	--	--	--
	2.5	--	--	--	21.61	--	--	--	--	--	--
	3	64.18	25.41	14.03	21.84	14.35	25.41	--	--	--	--
	3.5	--	--	--	22.01	--	--	--	--	--	--
	4	63.88	25.49	14.65	22.15	14.52	25.49	--	--	--	--
	5	64	25.57	15.10	22.39	14.66	25.57	--	--	--	--
	6	64.1	25.64	15.30	22.63	14.75	25.64	--	--	--	--
	7	64.18	25.69	15.53	22.79	14.87	25.69	--	--	--	--
	8	64.26	25.75	15.71	22.95	14.92	25.75	--	--	--	--
	9	64.36	25.8	15.86	23.05	14.97	25.80	--	--	--	--
	10	64.42	25.83	15.96	23.14	15.03	25.83	--	--	--	--
	12	64.5	25.9	16.11	23.29	15.10	25.90	--	--	--	--
	14	65.15	25.96	16.23	23.39	15.17	25.96	--	--	--	--
	16	65.19	26.01	16.32	23.48	15.22	26.01	--	--	--	--

Table 7. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 355, central Rhode Island, February 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)									
		Pumped well	Observation well								
		WGW 355 MP 271.84	WGW 307 D 2 MP 272.15	WGW 343 D 102 MP 272.34	WGW 344 D 200 MP 281.54	WGW 301 D 300 MP 273.47	WGW 306 D 643 MP 285.38	WGW 338 D 977 MP 263.82	WGW 337 D 1,133 MP 261.61	WGW 312 D 1,306 MP 264.54	WGW 341 D 1,457 MP 263.90
Pumping—*Continued*											
2-02-98	18	65.23	26.05	16.39	23.54	15.26	26.05	--	--	--	--
	20	65.25	26.08	16.44	23.60	15.29	26.08	--	--	--	--
	23	65.25	26.11	16.49	23.64	15.32	26.11	--	--	--	--
	26	65.23	26.14	16.53	23.67	15.34	26.14	--	--	--	--
	30	65.25	26.18	16.57	23.70	15.36	26.18	--	--	--	--
	35	65.3	26.21	16.60	23.73	15.39	26.21	--	--	--	--
	40	65.43	26.23	16.64	23.77	15.43	26.23	--	--	--	--
	45	65.47	26.26	16.67	23.79	15.43	26.26	--	--	--	--
	50	65.52	26.28	16.70	23.81	15.45	26.28	--	--	--	--
	60	65.6	26.31	16.71	23.83	15.48	26.31	--	--	--	--
	76	65.71	26.33	16.75	23.85	15.50	26.33	5.09	2.95	5.63	5.25
	82	65.73	26.32	16.77	23.87	15.52	26.32	--	--	--	--
	93	65.71	26.33	16.77	23.88	15.53	26.33	--	--	--	--
	100	65.71	26.33	16.78	23.89	15.54	26.33	--	--	--	--
	120	65.79	26.35	16.80	23.89	15.55	26.35	--	--	--	--
	150	65.85	26.36	16.82	23.92	15.56	26.36	5.16	--	5.67	5.29
	180	65.8	26.42	16.82	23.93	15.58	26.42	5.18	2.98	5.69	5.31
	210	65.93	26.43	16.84	23.95	15.61	26.43	--	--	--	--
	240	66.06	26.44	16.86	23.97	15.63	26.44	5.19	2.99	5.71	5.32
	300	66.01	26.44	16.89	24.00	15.68	26.44	5.21	3.02	5.72	5.34
	360	66.02	26.48	16.90	24.02	15.69	26.48	5.23	3.02	5.73	5.35
	480	65.99	26.47	16.92	24.05	15.70	26.47	5.25	3.04	5.75	5.36
	600	66.05	26.49	16.95	24.08	15.71	26.49	5.27	3.05	5.76	5.37
	720	66.05	26.51	16.98	24.10	15.75	26.51	5.29	3.06	5.77	5.39
	840	66.07	26.53	16.99	24.13	15.76	26.53	5.30	3.08	5.78	5.40

Table 7. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 355, central Rhode Island, February 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)									
		Pumped well	Observation well								
		WGW 355 MP 271.84	WGW 307 D 2 MP 272.15	WGW 343 D 102 MP 272.34	WGW 344 D 200 MP 281.54	WGW 301 D 300 MP 273.47	WGW 306 D 643 MP 285.38	WGW 338 D 977 MP 263.82	WGW 337 D 1,133 MP 261.61	WGW 312 D 1,306 MP 264.54	WGW 341 D 1,457 MP 263.90
Pumping—*Continued*											
2-3-98	960	66.08	26.55	17.02	24.16	15.77	26.55	5.31	3.10	5.80	5.42
	1,080	66.13	26.57	17.04	24.18	15.79	26.57	5.32	3.10	5.80	5.43
	1,200	66.16	26.58	17.06	24.20	15.81	26.58	5.34	3.12	5.81	5.43
	1,320	66.2	26.6	17.07	24.22	15.83	26.60	5.35	3.13	5.83	5.44
	1,440	66.27	26.61	17.10	24.24	15.87	26.61	5.37	3.15	5.85	5.46
	1,560	66.37	26.61	17.11	24.26	15.88	26.61	5.38	3.15	5.85	5.46
	1,680	66.43	26.63	17.13	24.28	15.90	26.63	5.39	3.17	5.86	5.48
	1,800	66.39	26.64	17.14	24.29	15.91	26.64	5.40	3.17	5.87	5.48
	1,920	66.37	26.64	17.15	24.30	15.92	26.64	5.41	3.17	5.88	5.49
	2,040	66.42	26.65	17.16	24.31	15.92	26.65	5.42	3.19	5.88	5.49
	2,160	66.42	26.66	17.17	24.33	15.94	26.66	5.43	3.19	5.89	5.50
	2,280	66.41	26.67	17.17	24.33	15.95	26.67	5.43	3.20	5.89	5.50
2-4-98	2,400	66.41	26.69	17.19	24.34	15.95	26.69	5.45	3.21	5.90	5.51
	2,520	66.44	26.69	17.20	24.36	15.97	26.69	5.46	3.23	5.92	5.53
	2,640	66.47	26.7	17.21	24.38	15.97	26.70	5.48	3.23	5.92	5.53
	2,760	66.47	26.74	17.23	--	15.98	26.74	5.47	3.23	5.94	5.55
	2,880	66.54	--	--	--	--	--	--	--	--	--

Table 8. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 356, central Rhode Island, July 1998

[Site locations are shown on plate 1. WGW 356 (West Greenwich well) was pumped at 550 gallons per minute for 48 hours. D, radial distance from pumped well in feet; MP, altitude of measuring point datum at local well in feet above sea level; min, minutes; --, no data available]

Date	Time (min)	Water level (feet below measuring point)							
		Pumped well	Observation well						
		WGW 356 MP 262.33	WGW 313 D 2 MP 263.35	WGW 351 D 75 MP 263.79	WGW 346 D 149 MP 266.73	WGW 347 D 241 MP 271.30	WGW 348 D 225 MP 274.14	WGW 349 D 385 MP 287.28	WGW 350 D 575 MP 290.25
Prior to pumping									
7-25-98		--	8.40	8.30	11.80	16.35	17.37	13.15	--
7-27-98		7.41	8.43	8.35	11.85	16.41	17.45	13.21	33.61
Pumping begins									
7-27-98	0	7.41	8.43	8.35	11.84	16.41	17.45	13.21	33.61
	.25	--		8.85	11.90	16.41	17.47	13.22	33.61
	.5	--	13.54	9.37	12.00	16.41	17.53	13.23	33.61
	.75	--		9.37	12.20	16.42	17.57	13.23	33.61
	1	--	14.48	10.06	12.37	16.42	17.62	13.24	33.61
	1.5	--	14.94	10.48	12.72	16.46	17.78	13.26	33.61
	2	--	15.17	10.75	13.02	16.51	17.90	13.30	33.62
	3	59.55	15.82	11.15	13.43	16.67	18.10	13.38	33.62
	4	--	15.92	11.42	13.78	16.87	18.26	13.47	33.62
	5	--	16.09	11.63	14.02	17.08	18.37	13.54	33.63
	6	--	16.28	11.78	14.22	17.28	18.47	13.60	33.63
	7	--	16.38	11.89	14.37	17.47	18.54	13.66	33.64
	8	--	16.48	12.00	14.51	17.68	18.61	13.71	33.64
	9	--	16.55	12.08	14.63	17.78	18.66	13.75	33.65
	10	--	16.61	12.16	14.72	17.93	18.70	13.79	33.65
	10.75	60.05	--	--	--	--	--	--	--
	12	--	16.73	12.28	14.89	18.15	18.78	13.86	33.65
	13.33	60.16	--	--	--	--	--	--	--
	14	--	16.82	12.38	15.04	18.33	18.83	13.91	33.65
	15	60.14	--	--	--	--	--	--	--
	16	--	16.87	12.46	15.13	18.48	18.88	13.93	33.66
	18	--	16.93	12.53	15.22	18.60	18.92	13.96	33.67
	21	60.30	16.99	12.59	15.30	18.71	18.96	13.99	33.67
	23	--	17.08	12.66	15.40	18.84	19.00	14.07	33.67
	27	60.38	17.1	12.72	15.48	18.95	19.04	14.11	33.67
	30	--	17.18	12.79	15.57	19.06	19.09	14.16	33.68
	32	60.44	--	--	--	--	--	--	--
	35	60.49	17.21	12.86	15.67	19.19	19.13	14.20	33.69
	41	60.52	17.28	12.92	15.74	19.28	19.16	14.24	33.69
	45	--	17.33	12.97	15.80	19.37	19.20	14.27	33.70

Table 8. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 356, central Rhode Island, July 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)							
		Pumped well	Observation well						
		WGW 356 MP 262.33	WGW 313 D 2 MP 263.35	WGW 351 D 75 MP 263.79	WGW 346 D 149 MP 266.73	WGW 347 D 241 MP 271.30	WGW 348 D 225 MP 274.14	WGW 349 D 385 MP 287.28	WGW 350 D 575 MP 290.25
Pumping—*Continued*									
7-27-98	47.5	60.57	--	--	--	--	--	--	--
	50	60.61	17.37	13.01	15.86	19.44	19.22	14.30	33.70
	60	60.62	17.42	13.09	15.95	19.55	19.27	14.35	33.70
	70	60.82	17.51	13.16	16.03	19.64	19.31	14.39	33.71
	80	60.88	17.55	13.20	16.11	19.74	19.35	14.43	33.72
	90	60.72	17.57	13.24	16.15	19.80	19.37	14.46	33.73
	100	60.79	17.61	13.29	16.19	19.84	19.41	14.48	33.73
	120	60.81	17.65	13.35	16.27	19.93	19.46	14.53	33.75
	150	60.94	17.75	13.43	16.38	20.04	19.54	14.60	33.78
	180	61.00	17.84	13.51	16.45	20.12	19.60	14.64	33.81
	210	61.12	17.9	13.58	16.51	20.19	19.66	14.69	33.83
	240	61.16	17.96	13.63	16.56	20.25	19.71	14.73	33.85
	300	61.22	18.04	13.72	16.67	20.35	19.78	14.82	33.89
	360	61.67	18.13	13.80	16.75	20.43	19.86	14.88	33.93
	420	61.69	18.2	13.87	16.81	20.50	19.93	14.94	33.98
	480	61.95	18.31	13.95	16.89	20.57	20.00	15.00	34.01
	540	62.09	18.36	13.99	16.94	20.62	20.04	15.06	34.05
	600	62.10	18.4	14.04	17.00	20.66	20.10	15.09	34.10
	660	62.19	18.47	14.10	17.05	20.73	20.17	15.14	34.14
	720	62.23	18.52	14.15	17.11	20.79	20.22	15.19	34.19
	780	62.26	18.57	14.20	17.20	20.82	20.26	15.22	34.22
	840	62.28	18.61	14.26	17.22	20.87	20.36	15.27	34.26
7-28-98	900	62.34	18.64	14.29	17.23	20.90	20.37	15.32	34.29
	960	62.36	18.67	14.32	17.26	20.93	20.41	15.35	34.34
	1,020	62.39	18.7	14.35	17.30	20.97	20.45	15.39	34.38
	1,080	62.42	18.74	14.40	17.34	21.01	20.49	15.41	34.41
	1,140	62.44	18.79	14.43	17.37	21.03	20.54	15.47	34.45
	1,200	62.48	18.82	14.47	17.41	21.08	20.58	15.49	34.49
	1,260	62.53	18.85	14.49	17.43	21.10	--	15.53	34.52
	1,320	62.54	18.88	14.52	17.46	21.13	20.64	15.54	34.55
	1,380	62.57	18.93	14.56	17.50	21.17	20.69	15.60	34.59
	1,440	62.59	19.06	14.59	17.53	21.19	20.71	15.63	34.62
	1,500	62.54	19.01	14.62	17.56	21.22	20.75	15.66	34.66
	1,560	62.61	19.02	14.65	17.58	21.25	20.78	15.69	34.69
	1,620	62.68	19.06	14.68	17.62	21.28	20.82	15.72	34.72
	1,680	62.72	19.08	14.71	17.65	21.31	20.85	15.75	34.75
	1,740	62.75	19.12	14.73	17.67	21.33	20.88	15.78	34.78
	1,800	62.78	19.16	14.75	17.70	21.35	20.91	15.80	34.82
	1,860	62.81	19.18	14.78	17.73	21.38	20.94	15.83	34.84
	1,920	62.82	19.2	14.81	17.75	21.41	20.97	15.86	34.87

Table 8. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 356, central Rhode Island, July 1998—*Continued*

Date	Time (min)	Water level (feet below measuring point)							
		Pumped well	Observation well						
		WGW 356 MP 262.33	WGW 313 D 2 MP 263.35	WGW 351 D 75 MP 263.79	WGW 346 D 149 MP 266.73	WGW 347 D 241 MP 271.30	WGW 348 D 225 MP 274.14	WGW 349 D 385 MP 287.28	WGW 350 D 575 MP 290.25
Pumping—*Continued*									
7-28-98	1,980	62.84	19.22	14.82	17.77	21.43	20.99	15.88	34.90
	2,040	62.87	19.24	14.84	17.79	21.45	21.01	15.90	34.93
	2,100	62.90	19.26	14.86	17.81	21.47	21.04	15.93	34.96
	2,160	62.89	19.29	14.89	17.84	21.49	21.08	15.95	34.99
	2,220	62.91	19.31	14.92	17.86	21.51	21.10	15.98	35.01
	2,280	62.91	19.31	14.94	17.88	21.54	21.13	16.03	35.04
7-29-98	2,340	62.93	19.32	14.95	17.90	21.55	21.14	16.02	35.07
	2,400	62.97	19.34	14.97	17.92	21.57	21.16	16.03	35.09
	2,460	62.98	19.37	14.99	17.93	21.59	21.19	16.07	35.13
	2,520	62.99	19.38	15.01	17.96	21.61	21.21	16.08	35.14
	2,580	63.02	19.4	15.05	17.99	21.65	21.26	16.13	--
	2,640	63.05	19.42	15.07	18.01	21.67	21.27	16.15	35.19
	2,700	63.04	19.44	15.08	18.03	21.68	21.30	16.17	35.22
	2,760	63.04	19.48	15.10	18.05	21.70	21.32	16.19	35.24
	2,820	63.05	19.5	15.13	18.07	21.72	21.35	16.20	35.26
	2,880	63.07	19.51	15.13	18.07	21.74	21.36	16.22	35.29
	2,900	--	--	--	--	--	--	16.22	35.30

Table 9. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 374, central Rhode Island, May 1999

[Site locations are shown on plate 1. WGW 374 (West Greenwich well) was pumped at 740 gallons per minute for 48 hours. D, radial distance from pumped well in feet; MP, altitude of measuring point datum at local well in feet above sea level; min, minutes; --, no data available]

Date	Time (min)	Water level (feet below measuring point)											
		Pumped well	Observation well										
		WGW 374 MP 286.78	WGW 306 D 3.8 MP 285.38	WGW 375 D 92 MP 288.21	WGW 376 D 150 MP 288.67	WGW 377 D 300 MP 290.85	WGW 307 D 643 MP 272.15	WGW 338 D 750 MP 263.82	WGW 301 D 950 MP 273.53	WGW 312 D 1,050 MP 264.54	WGW 341 D 1,200 MP 263.90	WGW 308 D 1,800 MP 291.32
Prior to pumping													
5-03-99	--	--	25.41	28.19	28.57	30.44	11.49	5.00	13.42	--	5.46	26.99
5-05-99	--	--	25.36	28.14	28.52	30.42	11.46	4.93	13.4	5.64	5.37	27.00
5-07-99	--	--	25.36	28.15	28.52	30.41	11.43	4.95	13.35	5.67	5.39	27.03
5-10-99	--	26.80	25.40	28.18	28.57	30.47	11.47	4.97	13.39	5.71	5.42	27.06
Pumping begins													
5-10-99	0	26.80	34.30	28.18	28.57	30.47	11.47	4.99	13.39	5.71	5.43	27.06
	.25	--		--	--	30.49	--	4.99	--	5.78	--	--
	.5	--	35.70	31.10	32.78	30.68	--	5.00	--	5.92	--	--
	.75	--	36.40	--	--	30.76	--	5.02	--	--	--	--
	1.0	--	36.85	33.43	33.84	30.95	--	5.05	--	--	--	--
	1.5	--	37.30	--	34.30	31.32	--	5.07	--	--	--	--
	2	--	37.70	35.70	34.79	31.96	--	5.15	--	--	--	--
	3	--	37.90	35.98	--	32.43	11.78	--	--	--	--	--
	3.5	--	--	36.61	--	--	--	--	--	--	--	--
	4	--	38.60	36.92	35.93	32.85	11.87	--	--	--	--	--
	4.5	--	--	--	--	--	11.93	--	--	--	--	--
	5	--	39.00	37.44	--	33.05	11.98	--	--	--	--	--
	6	--	39.40	37.82	36.5	33.53	12.08	5.56	--	--	--	--
	7	--	39.70	38.14	--	33.87	12.17	5.67	--	--	--	--
	8	--	39.95	38.40	36.9	33.99	12.24	--	--	--	--	--

Table 9. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 374, central Rhode Island, May 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)										
		Pumped well	Observation well									
		WGW 374 MP 286.78	WGW 306 D 3.8 MP 285.38	WGW 375 D 92 MP 288.21	WGW 376 D 150 MP 288.67	WGW 377 D 300 MP 290.85	WGW 307 D 643 MP 272.15	WGW 338 D 750 MP 263.82	WGW 301 D 950 MP 273.53	WGW 312 D 1,050 MP 264.54	WGW 341 D 1,200 MP 263.90	WGW 308 D 1,800 MP 291.32
Pumping—*Continued*												
5-10-99	9	--	40.15	38.61	--	34.11	12.30	--	--	--	--	--
	10	84.90	40.35	38.79	37.2	34.25	12.37	5.89	--	--	--	--
	11	--	--	--	--	--	12.42	--	--	--	--	--
	12	85.10	40.60	39.09	37.5	34.47	12.47	6.00	--	--	--	--
	13	--	--	--	--	--	12.52	--	--	--	--	--
	14	85.30	40.75	39.28	37.6	34.64	--	--	--	6.09	--	--
	15	--	--	--	--	--	--	6.10	14.00	--	--	--
	16	85.50	40.85	39.45	37.8	34.78	--	--	--	--	--	--
	17	--	--	--	--	--	12.64	--	--	6.15	--	--
	18	85.65	41.00	39.57	37.84	34.98	12.67	--	--	--	--	--
	19	--	--	--	--	--	12.69	--	--	--	5.75	--
	20	85.75	41.10	39.67	37.95	34.97	12.71	--	--	--	--	--
	21	--	--	--	--	--	--	6.25	--	--	--	--
	23	85.80	41.15	39.79	38.05	35.07	--	--	13.87	6.23	--	--
	24	--	--	--	--	--	--	6.32	--	--	--	--
	25	--	--	--	--	--	12.80	--	--	--	--	--
	26	85.90	41.30	39.89	38.15	35.15	--	--	13.94	6.29	--	--
	27	--	--	--	--	--	12.83	--	--	--	--	--
	28	--	--	--	--	--	--	6.37	--	--	--	--
	29	--	--	--	--	--	12.85	--	--	--	--	--
	30		41.40	39.98	38.24	35.24	--	--	--	6.32	5.89	--
	32.5	--	--	--	--	--	--	--	--	--	--	27.18
	35	--	41.50	40.07	38.3	35.31	12.90	6.43	--	--	--	--
	36	--	--	--	--	--	12.91	--	--	6.37	--	--
	40	--	41.55	40.14	38.34	35.37	12.94	6.48	--	6.40	--	--

Table 9. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 374, central Rhode Island, May 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)										
		Pumped well	Observation well									
		WGW 374 MP 286.78	WGW 306 D 3.8 MP 285.38	WGW 375 D 92 MP 288.21	WGW 376 D 150 MP 288.67	WGW 377 D 300 MP 290.85	WGW 307 D 643 MP 272.15	WGW 338 D 750 MP 263.82	WGW 301 D 950 MP 273.53	WGW 312 D 1,050 MP 264.54	WGW 341 D 1,200 MP 263.90	WGW 308 D 1,800 MP 291.32
Pumping—*Continued*												
5-10-99	45	86.15	41.60	40.19	38.38	35.41	12.96	6.50	14.00	6.43	5.98	--
	50	86.30	41.60	40.22	38.42	35.45	12.99	6.54	14.03	6.45	6.01	--
	60	86.40	41.65	40.29	38.49	35.52	13.03	6.59	14.08	6.49	6.05	27.27
	70	86.50	41.70	40.31	38.51	35.54	13.05	6.61	14.10	6.52	6.07	--
	80	86.55	41.70	40.33	38.5	35.56	13.07	6.64	14.11	6.54	6.08	
	90	86.60	41.75	40.35	38.55		13.08	6.65	--	6.55	--	27.34
	95	--	--	--	--	35.54	--	--	14	--	6.10	--
	100	86.70	41.75	40.37	38.53	--	13.10	6.66	14.12	6.57	6.11	27.38
	120	86.70	41.75	40.37	38.52	35.57	13.11	6.68	14.13	6.58	6.13	--
	150	86.80	41.75	40.4	38.58	35.61	13.15	--	--	--	--	--
	160	--	--	--	--	--	--	6.71	--	6.61	6.15	--
	170	--	--	--	--	--	--	--	14.16	--	--	27.42
	180	86.95	41.75	40.4	38.55	35.62	13.16	6.73	14.21	6.62	6.16	--
	210	87.10	41.75	--	--	--	--	--	--	--	--	27.43
	240	87.30	41.70	40.42	38.59	35.63	13.16	6.73	14.18	6.62	6.17	27.43
	300	87.50	41.75	40.41	38.63	35.66	13.18	6.75	14.21	6.64	6.21	27.45
	360	87.70	41.75	--	38.61	35.66	13.20	6.77	14.22	6.65	6.21	27.45
	420	87.70	41.70	40.41	38.62	35.67	13.21	6.78	14.23	6.66	6.22	27.45
	480	87.90	41.75	40.45	38.63	35.69	13.23	6.80	14.25	6.69	--	27.45
	540	88.00	41.75	40.43	38.63	35.70	13.25	6.81	14.26	6.71	6.24	27.47
	600	88.05	41.75	40.45	38.66	35.72	13.26	6.82	14.30	6.71	6.25	27.49
	660	88.20	41.75	--	--	--	--	--	--	--	--	--
5-11-99	720	88.25	41.75	40.44	38.65	35.74	13.29	6.84	14.29	6.73	6.27	27.50
	780	88.30	41.75	--	--	--	--	--	--	--	--	--
	840	88.45	41.75	40.45	38.66	35.75	13.30	6.85	14.31	6.73	6.27	27.51

Table 9. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 374, central Rhode Island, May 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)											
		Pumped well	Observation well										
		WGW 374 MP 286.78	WGW 306 D 3.8 MP 285.38	WGW 375 D 92 MP 288.21	WGW 376 D 150 MP 288.67	WGW 377 D 300 MP 290.85	WGW 307 D 643 MP 272.15	WGW 338 D 750 MP 263.82	WGW 301 D 950 MP 273.53	WGW 312 D 1,050 MP 264.54	WGW 341 D 1,200 MP 263.90	WGW 308 D 1,800 MP 291.32
Pumping—*Continued*													
5-11-99	900	88.55	41.75	--	--	--	--	--	--	--	--	--
	960	88.60	41.75	40.46	38.66	35.77	13.32	6.86	14.33	6.75	6.30	27.52
	1,020	88.70	41.75	--	--	--	--	--	--	--	--	--
	1,080	--	41.75	40.47	38.68	35.79	13.34	6.88	14.35	6.76	6.31	27.52
	1,140	--	41.72	--	--	--	--	--	--	--	--	--
	1,183	88.84	--	--	--	--	--	--	--	--	--	--
	1,200	88.87	41.73	40.5	38.71	35.81	13.37	6.91	14.36	6.78	6.32	27.53
	1,260	88.82	41.75	--	--	--	--	--	--	--	--	--
	1,320	89.02	41.75	40.52	38.73	35.83	13.39	6.92	14.37	6.80	6.34	27.54
	1,380	89.07	41.74	--	--	--	--	--	--	--	--	--
5-12-99	1,440	89.07	41.74	40.51	38.74	35.83	13.40	6.94	14.43	6.80	6.34	27.53
	1,500	89.07	41.74	--	--	--	--	--	--	--	--	--
	1,560	89.10	41.70	40.5	38.72	35.84	13.41	6.93	14.40	6.81	6.35	27.53
	1,680	89.12	41.70	40.81	38.72	35.86	13.42	6.94	14.41	6.83	6.35	27.53
	1,740	89.17	41.70	--	--	--	--	--	--	--	--	--
	1,800	89.12	41.70	40.47	38.73	35.85	13.42	6.95	14.41	6.82	6.35	--
	1,860	89.22	41.70	--	--	--	--	--	--	--	--	--
	1,920	89.37	41.70	40.52	38.75	35.87	13.44	6.96	14.44	6.83	6.37	27.54
	1,980	89.37	41.70	--	--	--	--	--	--	--	--	--
	2,040	89.22	41.74	40.5	38.76	35.98	13.45	6.98	14.44	6.85	6.39	27.53
	2,100	89.37	41.74	--	--	--	--	--	--	--	--	--
	2,160	89.37	41.74	40.54	38.76	35.90	13.46		14.46	6.86	6.39	27.55
	2,220	89.65	41.75	--	--	--	--	--	--	--	--	--
	2,280	89.65	41.75	40.55	38.78	35.91	13.47	6.99	14.47	6.86	6.39	27.56
	2,340	89.93	41.75	--	--	--	--	--	--	--	--	--

Table 9. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 374, central Rhode Island, May 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)										
		Pumped well	Observation well									
		WGW 374 MP 286.78	WGW 306 D 3.8 MP 285.38	WGW 375 D 92 MP 288.21	WGW 376 D 150 MP 288.67	WGW 377 D 300 MP 290.85	WGW 307 D 643 MP 272.15	WGW 338 D 750 MP 263.82	WGW 301 D 950 MP 273.53	WGW 312 D 1,050 MP 264.54	WGW 341 D 1,200 MP 263.90	WGW 308 D 1,800 MP 291.32
Pumping—*Continued*												
5-12-99	2,400	89.97	41.75	--	--	--	--	--	--	--	--	--
	2,460	90.05	41.75	40.58	38.81	35.94	13.50	7.00	14.49	6.87	6.42	27.56
	2,520	90.04	41.80	--	--	--	--	--	--	--	--	--
	2,580	90.12	41.80	40.6	38.82	35.95	13.51	7.02	14.50	6.90	6.43	27.57
	2,640	90.15	41.80	--	--	--	--	--	--	--	--	--
	2,700	90.27	41.80	40.61	38.83	35.97	13.54	7.04	14.51	6.91	6.44	27.58
	2,760	90.32	41.85	--	--	--	--	--	--	--	--	--
	2,820	90.17	41.81	40.62	38.84	35.98	13.55	--	14.53	--	--	27.59
	2,880	90.12	--	--	--	35.98	--	7.06	--	--	6.45	--

Table 10. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 410, central Rhode Island, October 1999

[Site locations are shown on plate 1. WGW 410 (West Greenwich well) was pumped at 920 gallons per minute for 48 hours. D, radial distance from pumped well in feet; MP, altitude of measuring point datum at local well in feet above sea level; min, minutes; --, no data available]

Date	Time (min)	Water level (feet below measuring point)								
		Pumped well	Observation well							
		WGW 410 MP 279.68	WGW 358 D 3.25 MP 279.60	WGW 289 D 80 MP 279.55	WGW 418 D 115 MP 278.73	WGW 419 D 172 MP 279.17	WGW 421 D 210 MP 274.30	WGW 420 D 357 MP 272.54	WGW 417 D 430 MP 269.80	WGW 360 D 1,130 MP 272.00
Prior to pumping										
10-14-99	--	--	17.76	17.47	16.70	17.00	12.73	11.11	8.96	11.21
10-15-99	--	19.07	17.78	17.49	16.70	17.00	12.73	11.11	8.99	11.21
10-16-99	--	--	17.88	17.59	16.79	17.10	12.81	11.20	9.04	11.23
10-18-99	--	19.10	17.84	17.56	16.75	17.04	12.76	11.13	9.01	11.21
Pumping begins										
10-18-99	0.00	19.05	17.82	17.56	16.75	17.04	12.76	12.76	9.01	11.21
	.25	--	17.90	--	16.75	17.04	12.76	12.76	9.01	--
	.5	--	17.90	17.57	16.75	17.04	12.76	12.76	9.01	--
	.75	--	22.10	--	16.96	17.08	12.76	12.76	9.01	--
	1	--	26.40	19.43	17.05	17.22	12.81	12.81	9.01	--
	1.5	--	26.80	19.99	17.50	17.39	12.90	12.90	9.02	--
	2	--	26.75	20.16	17.66	17.45	12.92	12.92	9.02	--
	3	--	26.75	20.25	17.76	17.50	12.94	12.94	9.02	--
	4	--	26.75	20.28	17.78	17.53	12.95	12.95	9.03	--
	5	45.97	26.76	20.30	17.80	17.54	12.96	12.96	9.03	--
	6	--	26.80	20.32	17.82	17.55	12.97	12.97	9.03	--
	7	--	26.81	20.34	17.84	17.56	12.97	12.97	9.03	--
	8	--	26.82	20.36	17.85	17.57	12.97	12.97	9.03	--
	9	--	26.85	20.37	17.86	17.58	12.98	12.98	9.03	--
	10	46.10	26.85	20.38	17.87	17.58	12.99	12.99	9.03	--
	12	--	26.86	20.41	17.89	17.59	12.99	12.99	9.04	--
	14	--	26.87	20.44	17.90	17.60	13.00	13.00	--	--
	16	46.10	26.89	20.46	17.92	17.62	13.00	13.00	--	--
	18	46.11	26.93	20.46	17.93	17.63	13.01	13.01	--	--
	20	46.11	26.95	20.48	17.95	17.64	13.02	13.02	9.04	--

Table 10. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 410, central Rhode Island, October 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)								
		Pumped well	Observation well							
		WGW 410 MP 279.68	WGW 358 D 3.25 MP 279.60	WGW 289 D 80 MP 279.55	WGW 418 D 115 MP 278.73	WGW 419 D 172 MP 279.17	WGW 421 D 210 MP 274.30	WGW 420 D 357 MP 272.54	WGW 417 D 430 MP 269.80	WGW 360 D 1,130 MP 272.00
Pumping—*Continued*										
10-18-99	23	46.12	26.95	20.50	17.97	17.65	13.02	13.02	9.05	--
	26	46.15	26.97	20.53	18.00	17.67	13.03	13.03	--	--
	30	46.20	27.00	20.55	18.02	17.69	13.04	13.04	9.05	--
	35	46.30	27.03	20.59	18.05	17.71	13.05	13.05	9.06	--
	40	46.31	27.08	20.62	18.07	17.74	13.06	13.06	9.06	--
	45	46.36	27.10	20.65	18.10	17.76	13.08	13.08	9.07	--
	50	46.37	27.14	20.67	18.12	17.78	13.09	13.09	9.07	--
	60	46.41	27.18	20.72	18.17	17.81	13.11	13.11	9.08	--
	70	46.60	27.28	20.78	18.20	17.84	13.13	13.13	9.09	--
	80	46.65	27.30	20.83	18.25	17.88	13.15	13.15	9.10	--
	90	46.70	27.36	20.87	18.27	17.90	13.16	13.16	9.10	11.21
	100	46.71	27.38	20.90	18.30	17.93	13.17	13.17	9.11	--
	120	46.88	27.50	21.00	18.41	18.00	13.22	13.22	9.12	--
	150	46.96	27.51	21.05	18.44	18.03	13.27	13.27	9.15	--
	180	47.20	27.68	21.14	18.51	18.09	13.23	13.23	9.16	--
	210	47.32	27.77	21.22	18.58	18.14	13.30	13.30	9.17	--
	240	47.40	27.85	21.29	18.64	18.19	13.34	13.34	9.19	--
	300	47.50	27.97	21.41	18.75	18.28	13.40	13.40	9.23	11.21
	360	47.70	28.10	21.52	18.86	18.37	13.46	13.46	9.29	--
	420	47.78	28.20	21.62	18.95	18.46	13.51	13.51	9.32	11.22
	480	47.78	28.30	21.70	19.04	18.53	13.56	13.56	9.37	11.24
	540	48.05	28.41	21.79	19.11	18.58	13.61	13.61	9.41	--
	600	48.19	28.49	21.87	19.18	18.65	13.65	13.65	9.45	11.24
	660	48.27	28.58	21.95	19.26	18.72	13.70	13.70	9.48	--
	720	48.39	28.66	22.03	19.32	18.77	13.74	13.74	9.51	--

Table 10. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 410, central Rhode Island, October 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)								
		Pumped well	Observation well							
		WGW 410 MP 279.68	WGW 358 D 3.25 MP 279.60	WGW 289 D 80 MP 279.55	WGW 418 D 115 MP 278.73	WGW 419 D 172 MP 279.17	WGW 421 D 210 MP 274.30	WGW 420 D 357 MP 272.54	WGW 417 D 430 MP 269.80	WGW 360 D 1,130 MP 272.00
Pumping—*Continued*										
10-18-99	780	48.46	28.76	22.18	--	--	--	--	--	--
	840	48.60	28.87	22.30	19.44	18.87	13.80	13.80	9.58	11.25
10-19-99	900	48.68	28.91	22.42	--	--	--	--	--	--
	960	48.78	28.99	22.53	19.54	18.97	13.88	13.88	9.64	--
	1,020	48.81	29.04	22.62	--	--	--	--	--	--
	1,080	48.93	29.12	--	19.66	19.08	13.95	13.95	9.71	11.27
	1,140	49.02	29.22	22.70	--	--	--	--	--	--
	1,200	49.05	29.26	--	19.76	19.16	14.02	14.02	9.76	--
	1,260	49.10	29.30	22.79	--	--	--	--	--	--
	1,320	49.15	29.35	22.83	19.84	19.22	14.09	14.09	9.82	--
	1,380	49.18	29.37	22.86	--	--	--	--	--	11.30
	1,440	49.18	29.43	22.92	19.93	19.29	14.15	14.15	9.87	--
	1,500	49.20	29.47	23.00	--	--	--	--	--	11.30
	1,560	49.20	29.49	23.04	20.01	19.36	14.21	14.21	9.92	--
	1,620	49.24	29.54	23.07	20.05	19.40	14.24	14.24	9.95	--
	1,680	49.32	29.60	23.10	20.08	19.43	14.27	14.27	9.98	11.32
	1,740	49.36	29.65	23.15	20.11	19.47	14.30	14.30	10.01	--
	1,800	49.36	29.68	23.18	--	--	--	--	--	--
	1,860	49.45	29.75	23.26	20.20	19.56	14.36	14.36	10.07	11.33
	1,920	49.48	29.80	23.33	20.24	19.59	14.39	14.39	10.09	--
10-20-99	1,980	49.50	29.81	23.38	20.26	19.62	14.42	14.42	10.12	--
	2,040	49.51	29.86	23.43	20.30	19.65	14.44	14.44	10.14	11.35
	2,100	49.59	29.87	23.51	20.34	19.69	14.47	14.47	10.16	--
	2,160	49.61	29.92	23.56	20.38	19.72	14.49	14.49	10.19	--
	2,220	49.65	29.96	--	20.42	19.77	14.54	14.54	10.24	11.36

Table 10. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 410, central Rhode Island, October 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)								
		Pumped well	Observation well							
		WGW 410 MP 279.68	WGW 358 D 3.25 MP 279.60	WGW 289 D 80 MP 279.55	WGW 418 D 115 MP 278.73	WGW 419 D 172 MP 279.17	WGW 421 D 210 MP 274.30	WGW 420 D 357 MP 272.54	WGW 417 D 430 MP 269.80	WGW 360 D 1,130 MP 272.00
Pumping—*Continued*										
10-20-99	2,280	49.71	30.00	23.55	--	--	--	--	--	--
	2,340	49.78	30.05	--	--	--	--	--	--	--
	2,400	49.79	30.07	--	20.49	19.82	14.59	14.59	10.28	--
	2,460	49.80	30.09	--	20.55	19.88	14.63	14.63	10.32	11.40
	2,520	49.84	30.12	--	--	--	--	--	--	--
	2,580	49.96	30.15	--	--	--	--	--	--	--
	2,640	49.86	30.17	--	20.61	19.93	14.67	14.67	10.37	--
	2,700	49.90	30.23	--	--	--	--	--	--	--
	2,760	49.95	30.27	--	20.67	19.98	14.71	14.71	10.40	--
	2,820	49.97	30.30	--	--	--	--	--	--	--
	2,880	50.00	30.31	--	20.74	20.04	14.76	14.76	10.43	--

Table 11. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 411, central Rhode Island, October 1999

[Site locations are shown on plate 1. WGW 411 (West Greenwich well) was pumped at 325 gallons per minute for 49 hours. D, radial distance from pumped well in feet; MP, altitude of measuring point datum at local well in feet above sea level; min, minutes; --, no data available]

Date	Time (min)	Water level (feet below measuring point)							
		Pumped well	Observation well						
		WGW 411 MP 259.93	WGW 371 D 3.3 MP 257.93	WGW 414 D 64 MP 264.08	WGW 415 D 125 MP 269.85	WGW 413 D 159 MP 257.51	WGW 416 D 300 MP 272.42	WGW 412 D 320 MP 260.16	WGW 304 D 635 MP 274.64
Prior to pumping									
10-08-99	--	--	7.08	13.10	19.70	6.12	20.80	10.56	22.93
10-11-99	--	--	7.02	13.04	19.66	6.08	20.77	10.50	22.91
10-12-99	--	9.84	7.02	13.07	19.68	6.07	20.77	10.53	22.94
Pumping begins									
10-12-99	0	9.84	7.02	13.07	19.68	6.07	20.78	10.53	22.94
	.25	--	11.70	--	19.68	6.07	20.79	10.53	22.94
	.5	--	14.60	--	19.74	6.08	20.79	10.53	22.94
	.75	--	16.50	13.20	19.80	6.09	20.79	10.53	22.94
	.8	--		13.40	--	--	--	--	--
	1	--	17.30	13.70	20.03	6.11	20.79	10.54	22.94
	1.5	--	18.20	13.90	20.40	6.19	--	10.54	22.94
	2	45.80	18.50	14.40	20.61	6.30	20.82	10.54	22.94
	3	46.20	19.00	14.70	20.94	6.50	20.86	10.57	22.94
	4	--	19.30	14.80	21.12	6.64	20.88	10.59	22.94
	5	--	19.37	14.80	21.22	6.74	20.92	10.61	22.94
	6	--	19.42	14.90	21.29	6.82	20.94	10.65	22.94
	7	--	19.47	14.90	21.33	6.86	20.94	10.66	22.94
	8	--	19.48	14.90	21.37	6.91	20.95	10.69	22.94
	9	--	19.49	14.90	21.39	6.94	20.95	10.72	22.94
	10	46.26	19.50	15.00	21.41	6.97	20.96	10.73	22.94
	12	--	19.50	15.00	21.43	7.02	20.97	10.77	--
	14	46.30	19.52	15.00	21.45	7.05	20.97	10.80	--
	16	46.30	19.52	15.00	21.48	7.08	20.98	10.83	--
	18	46.28	19.51	15.00	21.49	7.11	20.98	10.85	22.94
	20	46.28	19.50	15.10	21.50	7.13	20.99	10.87	22.94
	23	--	19.51	15.10	--	7.16	20.99	10.89	22.94
	26	--	19.55	15.10	21.53	7.18	21.00	10.91	22.94
	30	--	19.57	15.12	--	7.21	21.02	10.96	22.94
	35	46.32	19.57	15.15	21.57	7.24	21.03	10.96	22.94
	40	46.38	19.58	15.17	21.59	7.26	21.03	10.99	22.94
	45	--	19.58	15.17	21.60	7.29	21.03	11.01	22.94
	50	46.39	19.60	15.21	21.61	7.30	21.03	11.02	22.94
	60	46.40	19.60	15.25	21.64	7.33	21.05	11.05	22.94
	70	46.41	19.60	15.27	21.66	7.35	21.06	11.05	22.94

Table 11. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 411, central Rhode Island, October 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)							
		Pumped well	Observation well						
		WGW 411 MP 259.93	WGW 371 D 3.3 MP 257.93	WGW 414 D 64 MP 264.08	WGW 415 D 125 MP 269.85	WGW 413 D 159 MP 257.51	WGW 416 D 300 MP 272.42	WGW 412 D 320 MP 260.16	WGW 304 D 635 MP 274.64
Pumping—*Continued*									
10-12-99	80	46.43	19.62	15.29	21.69	7.37	21.07	11.07	22.94
	90	46.48	19.65	15.33	--	7.39	21.08	11.08	22.94
	100	46.53	19.70	15.36	21.74	7.42	21.09	11.10	22.94
	120	46.56	19.72	15.42	21.78	7.45	21.11	11.13	22.94
	150	46.62	19.72	15.50	21.82	7.50	21.13	11.16	22.94
	180	46.70	19.80	15.57	21.88	7.55	21.15	11.19	22.94
	210	46.69	19.85	15.64	21.93	7.59	21.18	11.22	22.94
	240	46.78	19.90	15.70	21.97	7.62	21.20	11.25	22.94
	300	47.00	20.08	15.84	22.06	7.71	21.25	11.31	22.95
	360	47.20	20.12	15.92	22.14	7.78	21.30	11.35	22.96
	420	47.25	20.20	16.03	22.21	7.83	21.34	11.40	22.97
	480	47.33	20.27	16.11	22.27	7.89	21.37	11.42	22.97
	500	--	--	16.13	22.28	7.91	21.38	11.43	22.98
	540	47.25	20.30	16.18	22.32	7.93	21.40	11.46	22.98
	600	47.43	20.40	16.25	22.37	7.98	21.43	11.48	22.98
	660	47.45	20.41	--	22.41	8.02	21.46	11.52	22.99
	720	47.39	20.47	16.38	22.47	8.06	21.49	11.54	23.00
	780	47.45	20.50	16.42	22.50	8.09	21.52	11.57	23.01
	840	47.51	20.51	16.49	22.55	8.12	21.54	11.59	23.02
10-13-99	900	47.51	20.35	--	--	--	--	--	--
	960	47.55	20.36	16.59	22.62	8.19	21.58	11.64	23.02
	1,020	47.59	20.41	--	--	--	--	--	--
	1,080	47.60	20.71	16.69	22.68	8.25	21.62	11.68	23.03
	1,140	47.66	20.77	--	--	--	--	--	--
	1,200	47.76	20.78	16.76	22.74	8.31	21.67	11.71	23.05
	1,260	47.76	20.89	--	--	--	--	--	--
	1,320	47.78	20.88	16.84	22.80	8.36	21.72	11.76	23.06
	1,380	47.81	20.88	16.87	22.83	8.38	21.74	11.78	23.07
	1,440	47.78	20.90	16.89	22.85	8.40	21.75	11.79	23.07
	1,500	47.77	20.90	16.92	22.87	8.42	21.77	11.81	23.08
	1,560	47.77	20.92	16.94	22.89	8.44	21.79	11.83	23.08
	1,620	47.76	20.92	16.97	22.91	8.46	21.80	11.84	23.09
	1,680	47.72	20.94	16.99	22.93	8.47	21.82	11.85	23.09
	1,740	47.76	20.96	17.02	22.95	8.49	21.84	11.87	23.10
	1,800	47.78	21.00	17.04	22.97	8.51	21.85	11.88	23.10
	1,860	47.78	21.00	17.05	22.99	8.52	21.86	11.88	23.11
	1,920	47.80	21.00	17.07	23.01	8.54	21.88	11.90	23.11
	1,980	47.80	21.00	17.10	23.03	8.56	21.89	11.91	23.12
	2,040	47.82	21.01	17.12	23.04	8.57	21.91	11.91	23.13
	2,100	47.82	21.03	17.13	23.06	8.58	21.92	11.93	23.13

Table 11. Ground-water levels recorded during an aquifer test conducted at West Greenwich Well 411, central Rhode Island, October 1999—*Continued*

Date	Time (min)	Water level (feet below measuring point)							
		Pumped well	Observation well						
		WGW 411 MP 259.93	WGW 371 D 3.3 MP 257.93	WGW 414 D 64 MP 264.08	WGW 415 D 125 MP 269.85	WGW 413 D 159 MP 257.51	WGW 416 D 300 MP 272.42	WGW 412 D 320 MP 260.16	WGW 304 D 635 MP 274.64
Pumping—*Continued*									
10-13-99	2,160	47.82	21.03	17.17	23.08	8.60	21.94	11.95	23.14
	2,220	47.82	21.05	17.18	23.10	8.61	21.95	11.96	23.14
	2,280	47.82	21.05	--	--	--	--	--	--
	2,340	47.82	21.07	17.22	23.12	8.64	21.98	11.97	23.14
10-14-99	2,400	47.82	21.10	--	--	--	--	--	--
	2,460	47.83	21.10	17.26	23.16	8.66	22.00	11.98	23.16
	2,520	47.83	21.11	--	--	--	--	--	--
	2,580	47.83	21.12	17.29	23.17	8.67	22.02	12.00	23.16
	2,640	47.85	21.12	--	--	--	--	--	--
	2,700	47.86	21.15	17.32	23.21	8.70	22.04	12.02	23.18
	2,760	47.88	21.16	--	--	--	--	--	--
	2,820	47.91	21.21	17.34	23.24	8.73	22.06	12.03	23.19
	2,860	--	--	--	23.25	--	--	12.05	--
	2,880	47.93	21.27	17.36	23.26	8.76	22.07	12.05	23.19
	2,920	--	--	--	--	--	22.08	--	23.20
	2,940	48.00	21.32	17.38	23.27	--	22.09	12.07	--

Table 12. Chemical analyses and physical properties of ground water in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–99

[Site locations are shown on plate 1. **Data Sources:** 1, U.S. Geological Survey; 2, Rhode Island Department of Health; 3, University of Rhode Island Department of Geosciences. $CaCO_3$, calcium carbonate; WGW, West Greenwich well; ˚C, degrees Celsius; mm of Hg, millimeters of mercury; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; <, actual value is less than detection limit shown; --, no data]

Local Well No.	Date	Data source	Specific conductance (µS/cm)	pH, whole water, field	Temperature, water (˚C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)
WGW 285	5-03-99	1	354	5.53	12.2	754	7.4	3.7	0.41	64.7	0.91	--	11	88	0.22
WGW 285	11-08-99	1	205	5.74	14.3	762	--	2.0	.25	36.5	.64	--	15	51	.20
WGW 286	5-03-99	1	104	6.13	11.5	754	7.1	6.5	1.4	8.14	2.1	--	6.0	16	<.1
WGW 286	11-08-99	1	88	6.71	10.5	756	--	5.8	1.3	7.32	1.7	--	6.5	13	<.1
WGW 287	3-07-97	3	53	6.00	10.0	--	11	2.1	.50	3.6	.8	3.2	6.0	4.4	.3
WGW 289	3-01-97	3	53	6.40	8.9	--	9.8	2.3	.40	3.7	1.2	5.6	5.9	3.6	.4
WGW 289	5-03-99	1	45	6.34	9.6	752	11	2.9	.42	3.98	1.2	--	5.9	4.6	.41
WGW 289	11-08-99	1	41	6.23	9.3	756	--	2.8	.45	3.41	1.1	--	6.1	4.2	.37
WGW 290	3-01-97	3	45	5.50	9.0	--	11	1.3	.40	3.3	.8	1.9	6.2	4.0	.1
WGW 290	5-03-99	1	36	5.40	9.0	752	11	1.6	.46	3.31	1.1	--	6.4	3.5	.16
WGW 290	11-08-99	1	32	6.17	9.5	756	--	1.4	.44	2.81	.78	--	6.1	3.1	.15
WGW 292	2-20-97	3	118	7.70	9.5	--	6.4	6.4	.90	10.6	1.9	32	3.3	5.1	2.1
WGW 292	5-03-99	1	92	6.82	12.0	752	4.4	7.7	1.1	8.99	.9	--	3.1	3.0	2.0
WGW 292	11-08-99	1	87	6.93	12.2	756	--	8.2	1.2	8.23	2.0	--	3.4	3.3	2.1
WGW 293	2-15-97	3	147	6.05	10.0	--	7.1	5.7	.80	22	2.8	11	5.4	35	<.1
WGW 293	5-03-99	1	60	6.28	9.0	752	8.6	4.6	.69	4.13	2.1	--	5.2	5.5	<.1
WGW 293	11-08-99	1	56	6.44	10.9	756	--	5.0	.81	3.63	2.3	--	5.8	4.3	<.1
WGW 295	5-05-99	1	75	5.66	11.5	751	8	6.3	1.3	5.01	.56	--	8.1	2.6	<.1
WGW 295	11-09-99	1	66	5.93	12.9	759	8.1	6.1	1.3	4.47	.63	--	9.2	2.1	<.1
WGW 296	3-02-97	3	68	6.70	11.5	--	7.6	2.9	.60	4.7	1.1	11	5.8	4.6	.3
WGW 297	3-07-97	3	102	7.40	9.0	--	5.5	5.0	.60	7.4	3.2	31	.4	3.4	1.1
WGW 299	3-01-97	3	59	6.20	10.0	--	9	2.9	.30	2.3	.9	3.0	7.2	3.2	<.1
WGW 300	5-05-99	1	204	5.55	10.5	751	11	3.7	.86	31.76	.42	--	6.9	49	<.1
WGW 300	11-09-99	1	157	5.63	10.3	761	9.7	2.6	.59	28.9	.33	--	15	37	<.1
WGW 301	2-16-97	3	76	6.27	10.4	--	9.2	4.9	.80	5.2	1.4	11	5.9	5.3	<.1
WGW 301	5-05-99	1	61	5.89	10.2	751	11	4.3	.81	4.87	.93	--	6.0	5.8	<.1
WGW 301	11-09-99	1	56	5.89	10.0	761	10	4.3	.85	4.52	.98	--	6.0	6.1	<.1
WGW 302	5-05-99	1	159	5.87	11.0	751	11	2.7	.83	25.5	.55	--	7.8	43	<.1
WGW 302	11-08-99	1	153	6.59	9.7	755	--	3.4	1.1	23.4	.56	--	7.8	44	<.1
WGW 303	5-03-99	1	248	5.52	10.0	752	11	4.3	.89	39.3	.96	--	26	46	<.1

Table 12. Chemical analyses and physical properties of ground water in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–99—*Continued*

Local Well No.	Date	Data source	Specific conductance (µS/cm)	pH, whole water, field	Temperature, water (°C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)
WGW 303	11-09-99	1	202	5.66	10.6	762	--	2.7	0.69	36.9	0.89	--	21	47	<0.1
WGW 305	2-28-97	3	55	5..00	7.4	--	7.6	2.0	.50	3.4	.6	5.3	5.5	3.9	.1
WGW 306	12-05-96	2	63	--	9.9	--	--	--	--	--	--	--	--	4.0	--
WGW 307	12-05-96	2	69	--	--	--	--	--	--	--	--	--	--	3.8	--
WGW 308	12-09-96	2	67	--	11.5	--	--	--	--	--	--	--	--	7.6	--
WGW 312	12-19-96	2	59	--	10.1	--	--	--	--	--	--	--	--	4.3	--
WGW 313	12-31-96	2	53	--	9.8	--	--	--	--	--	--	--	--	6.7	--
WGW 351	5-05-99	1	55	5.64	10.0	751	10	3.4	.74	4.60	.96	--	7.0	5.4	.14
WGW 351	11-09-99	1	51	5.74	9.2	764	--	3.4	.79	4.18	.66	--	6.9	5.7	.12
WGW 354	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	4.3	--
WGW 355	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	4.9	--
WGW 356	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	11.4	--
WGW 358	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	4.1	--
WGW 360	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	3.7	--
WGW 371	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	3.4	--
WGW 374	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	5.8	--
WGW 410	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	3.5	--
WGW 411	2-04-98	2	--	--	--	--	--	--	--	--	--	--	--	3.1	--

Table 12. Chemical analyses and physical properties of ground water in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–99—*Continued*

Local Well No.	Date	Bromide, dis-solved (mg/L)	Silica, dis-solved (mg/L)	Solids, residue at 180˚C, dissolved (mg/L)	Nitrogen, nitrate, calculated (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen nitrite + nitrate dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia + organic, dissolved (mg/L as N)	Phos-phorus, dis-solved (mg/L as P)	Phos-phorus, ortho, dissolved (mg/L as P)	Iron, dis-solved (mg/L)	Manga-nese, dis-solved (µg/L)
WGW 285	5-03-99	0.03	8.9	185	--	<0.01	0.29	0.04	<0.1	<0.004	0.013	21.4	21.3
WGW 285	11-08-99	.02	9.9	124	--	<.01	.15	<.02	<.1	<.006	<.01	91.2	13.4
WGW 286	5-03-99	.02	14	73	--	<.01	1.58	.04	<.1	<.004	.013	<10.	272
WGW 286	11-08-99	.02	15	66	--	<.01	1.61	<.02	<.1	<.006	<.01	37.0	212
WGW 287	3-07-97	--	11	--	--	--	.16	--	--	--	--	--	--
WGW 289	3-01-97	--	13	--	--	--	.03	--	--	--	--	--	--
WGW 289	5-03-99	.01	12	37	--	<.01	<.05	.04	<.1	<.004	.013	<10.	8.28
WGW 289	11-08-99	.01	12	38	--	<.01	<.05	<.02	<.1	<.006	<.01	<10.	11.9
WGW 290	3-01-97	--	12	--	--	--	.03	--	--	--	--	--	--
WGW 290	5-03-99	.01	9.6	29	--	<.01	<.05	.04	<.1	<.004	.011	<10.	13.0
WGW 290	11-08-99	.01	9.9	30	--	<.01	<.05	.03	<.1	<.006	<.01	12.9	13.0
WGW 292	2-20-97	--	27	--	--	--	.08	--	--	--	--	--	--
WGW 292	5-03-99	.02	30	81	--	<.01	.06	.05	<.1	.005	.018	509	108
WGW 292	11-08-99	.02	31	71	--	<.01	.07	<.02	<.1	<.006	<.01	38.7	69.6
WGW 293	2-15-97	--	11	--	--	--	.29	--	--	--	--	--	--
WGW 293	5-03-99	.03	8.4	42	--	<.01	.29	.04	<.1	<.004	.015	10.3	<3.
WGW 293	11-08-99	.02	11	33	--	<.01	.32	<.02	<.1	<.006	<.01	27.8	<3.
WGW 295	5-05-99	<.01	19	64	--	<.01	1.19	.06	<.1	.012	.023	298	15.4
WGW 295	11-09-99	.02	21	52	--	<.01	.64	.03	<.1	<.006	<.01	446	19.5
WGW 296	3-02-97	--	13	--	--	--	.05	--	--	--	--	--	--
WGW 297	3-07-97	--	36	--	--	--	.04	--	--	--	--	--	--
WGW 299	3-01-97	--	6.3	--	--	--	.48	--	--	--	--	--	--
WGW 300	5-05-99	.01	10	112	--	<.01	<.05	.05	<.1	<.004	.015	31.7	17.7
WGW 300	11-09-99	<.01	10	102	--	<.01	<.05	<.02	<.1	<.006	<.01	15.5	11.2
WGW 301	2-16-97	--	14	--	--	--	.97	--	--	--	--	--	--
WGW 301	5-05-99	.02	15	47	--	<.01	.71	.04	<.1	.008	.014	<10.	16.2
WGW 301	11-09-99	.02	16	50	--	<.01	.71	<.02	<.1	<.006	<.01	60.5	13.0
WGW 302	5-05-99	.03	11	103	--	<.01	.09	.04	<.1	<.004	.02	15.5	<3.
WGW 302	11-08-99	.02	12	102	--	<.01	.10	<.02	<.1	.007	<.01	10.6	<3.
WGW 303	5-03-99	.03	12	136	--	<.01	.13	.05	<.1	<.004	.02	<10.	71.8

Table 12. Chemical analyses and physical properties of ground water in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–99—*Continued*

Local Well No.	Date	Bromide, dis-solved (mg/L)	Silica, dis-solved (mg/L)	Solids, residue at 180˚C, dissolved (mg/L)	Nitrogen, nitrate, calculated (mg/L as N)	Nitrogen, nitrite, dissolved (mg/L as N)	Nitrogen nitrite + nitrate dissolved (mg/L as N)	Nitrogen, ammonia, dissolved (mg/L as N)	Nitrogen, ammonia + organic, dissolved (mg/L as N)	Phos-phorus, dis-solved (mg/L as P)	Phos-phorus, ortho, dissolved (mg/L as P)	Iron, dis-solved (mg/L)	Manga-nese, dis-solved (µg/L)
WGW 303	11-09-99	0.02	12	129	--	<0.01	0.21	<0.02	<0.1	<0.004	<0.01	120	50.2
WGW 305	2-28-97	--	11	--	--	--	.03	--	--	--	--	--	--
WGW 306	12-05-96	--	--	--	0.7	<.02	--	--	--	--	--	130	30
WGW 307	12-05-96	--	--	--	1.1	<.02	--	--	--	--	--	80	<20
WGW 308	12-09-96	--	--	--	.6	<.02	--	--	--	--	--	360	40
WGW 312	12-19-96	--	--	--	.4	<.02	--	--	--	--	--	70	<20
WGW 313	12-31-96	--	--	--	.4	<.02	--	--	--	--	--	50	<20
WGW 351	5-05-99	.02	13	44	--	<.01	.56	.05	<.1	<.004	.014	<10.	<3.
WGW 351	11-09-99	.02	14	37	--	<.01	.60	<.02	<.1	<.006	<.01	14.3	<3.
WGW 354	2-04-98	--	--	--	.4	<.02	--	--	--	--	--	<20	<20
WGW 355	2-04-98	--	--	--	1.1	<.02	--	--	--	--	--	<20	<20
WGW 356	2-04-98	--	--	--	.4	<.02	--	--	--	--	--	<20	<20
WGW 358	2-04-98	--	--	--	<.05	<.02	--	--	--	--	--	30	<20
WGW 360	2-04-98	--	--	--	<.05	<.02	--	--	--	--	--	<20	<20
WGW 371	2-04-98	--	--	--	<.05	<.02	--	--	--	--	--	<20	<20
WGW 374	2-04-98	--	--	--	.9	<.02	--	--	--	--	--	<20	<20
WGW 410	2-04-98	--	--	--	5.8	<.02	--	--	--	--	--	<20	<20
WGW 411	2-04-98	--	--	--	<.05	<.02	--	--	--	--	--	<20	<20

Table 13. Water levels in selected ponds and reservoirs in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–98

[Site locations shown (A) correspond to plate 1. Water levels are gage height readings in feet above the gage datum or * a measurement below a measuring point (MP) of known altitude; SG, staff gage; SLG, slope gage; WWG, wire weight gage;--, no data available]

Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)	Date	Water level (feet)
(A) Beaver Dam Pond at New London Turnpike SG Altitude: 256.76 feet									
APR 15, 1997	7.25	AUG 28, 1997	7.67	DEC 09, 1997	8.09	APR 13, 1998	7.76	AUG 24, 1998	5.98
MAY 21	7.07	SEP 17	7.91	JAN 14, 1998	8.06	MAY 19	7.74	SEP 29	7.53
JUN 18	6.84	OCT 16	8.22	FEB 17	8.03	JUN 25	7.48	OCT 27	7.80
JUL 15	7.68	NOV 13	7.76	MAR 24	7.93	JUL 15	7.17		
(B) Capwell Mill Pond at Burnt Sawmill Road SG Altitude: 246.28 feet									
APR 14, 1997	10.09	AUG 27, 1997	9.66	DEC 09, 1997	9.74	APR 13, 1998	9.98	AUG 24, 1998	9.76
MAY 20	9.89	SEP 17	9.60	JAN 15, 1998	9.91	MAY 19	9.98	SEP 28	9.72
JUN 17	9.69	OCT 16	9.57	FEB 17	9.93	JUN 25	10.02	OCT 27	9.72
JUL 15	9.56	NOV 12	9.77	MAR 25	10.06	JUL 16	9.83		
(C) Carr Pond at Carr Pond Outfall SG Altitude: 313.43 feet									
APR 15, 1997	17.90	AUG 27, 1997	17.28	DEC 09, 1997	17.6	APR 13, 1998	17.87	AUG 26, 1998	17.71
MAY 20	17.73	SEP 17	17.38	JAN 14, 1998	17.90	MAY 19	17.97	SEP	--
JUN 18	17.55	OCT 16	17.14	FEB 17	17.90	JUN 25	18.22	OCT 27	17.56
JUL 16	17.28	NOV 13	17.58	MAR 24	18.06	JUL	--		
(D) Flat River Reservoir at Hill Farm Road WWG Altitude: 238.82 feet									
APR 14, 1997	9.63	AUG 28, 1997	8.41	DEC 09, 1997	5.08	APR 13, 1998	9.30	AUG 26, 1998	9.01
MAY 29	9.28	SEP 18	9.00	JAN 15, 1998	8.33	MAY 19	9.45	SEP	--
JUN 18	8.95	OCT 15	8.42	FEB 17	7.10	JUN 25	9.60	OCT 27	8.10
JUL 16	8.02	NOV 12	7.55	MAR 25	9.25	JUL 16	9.35		
(E) Mishnock Lake at Mohawk Trail SG Altitude: 231.25 feet									
APR 15, 1997	18.98	AUG 27, 1997	18.63	DEC 09, 1997	18.91	APR 13, 1998	18.89	AUG 25, 1998	18.80
MAY 21	18.92	SEP 18	18.61	JAN 15, 1998	18.87	MAY 19	18.94	SEP 29	19.00
JUN 18	18.78	OCT 15	18.66	FEB 17	19.17	JUN 26	18.92	OCT 27	19.08
JUL 16	18.67	NOV 12	18.86	MAR 25	18.92	JUL 16	18.86		
(F) Quarry Pond at Division and Hopkins Hill Roads SLG Altitude: 254.53 feet									
APR 15, 1997	17.50	AUG 28, 1997	13.64	DEC 09, 1997	13.98	APR 14, 1998	18.78	AUG 26, 1998	15.95
MAY 21	16.90	SEP 17	14.55	JAN 14, 1998	15.00	MAY 19	18.90	SEP 29	14.90
JUN 17	15.80	OCT 16	13.18	FEB 17	16.85	JUN 25	19.00	OCT 27	14.45
JUL 16	14.37	NOV 12	13.80	MAR 25	19.00	JUL 15	18.30		
(G) *Sweet Pond at Sweet Sawmill Road MP Altitude: 284.56 feet (chiseled square)									
APR 15, 1997	3.37	AUG 27, 1997	5.11	DEC 09, 1997	3.85	APR 13, 1998	3.69	AUG 26, 1998	4.73
MAY 20	3.36	SEP 17	5.10	JAN 14, 1998	3.75	MAY 20	3.73	SEP 29	5.05
JUN 18	3.55	OCT	--	FEB 17	3.88	JUN 25	4.27	OCT 27	4.93
JUL 15	5.00	NOV 12	3.79	MAR 24	3.49	JUL 15	4.64		
(H) Tarbox Pond at Hopkins Hill Road SG Altitude: 280.65 feet									
APR 15, 1997	10.12	AUG 27, 1997	9.11	DEC 09, 1997	9.16	APR 13, 1998	9.37	AUG 26, 1998	9.17
MAY 21	9.60	SEP 17	9.14	JAN 14, 1998	9.36	MAY 19	9.44	SEP 29	9.36
JUN 18	9.52	OCT 16	9.53	FEB 17	9.36	JUN 25	9.44	OCT 27	9.56
JUL 15	9.09	NOV 13	9.14	MAR 24	9.51	JUL 15	9.22		

Table 14. Discharge measurements and specific conductance at partial-record streamflow sites in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98

[ft^3/s, cubic feet per second; mi, mile; mi^2, square mile; µS/cm, microsiemens per centimeter; --, no data available]

Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)
01115630. Nooseneck River tributary to Big River. Latitude 41˚37’36”, longitude 71˚37’59”, Kent County, at State Highway 3, at Nooseneck, and 5.5 mi southwest of Washington, RI. Drainage area: 8.23 mi^2. Water years previously measured 1961–63, 1964-81, and 1992–94.											
JUL 18, 1996	9.75	--	FEB 20, 1997	22.8	119	SEP 17, 1997	3.96	169	APR 13, 1998	27.2	98
AUG 15	3.24	227	MAR 17	21.7	125	OCT 16	1.96	234	MAY 19	28.4	90
SEP 26	6.36	156	APR 14	42.8	110	NOV 12	11.5	119	JUN 25	32.6	--
OCT 16	7.00	167	MAY 20	17.8	129	DEC 08	8.65	142	JUL 15	12.0	--
NOV 21	11.0	--	JUN 17	5.62	171	JAN 15, 1998	19.7	122	AUG24	4.02	141
DEC 30	33.1	--	JUL 15	2.21	226	FEB 17	24.0	--	SEP 28	4.65	--
JAN 23, 1997	29.5	124	AUG 27	5.42	140	MAR 24	44.6	98	OCT 27	5.01	121
01115670. Congdon River tributary to Big River. Latitude 41˚36’44”, longitude 71˚37’24”, Kent County, at Congdon Mill Road, 1.3 mi southeast of Nooseneck, RI. Drainage area: 4.46 mi^2. Water years 1961–63 previously measured.											
JUL 18, 1996	4.49	--	FEB 20, 1997	11.5	84	SEP 17, 1997	2.47	96	APR 13, 1998	13.6	73
AUG 15	3.21	--	MAR 17	11.4	88	OCT 16	1.18	102	MAY 19	13.6	68
SEP 26	3.74	105	APR 14	21.8	83	NOV 12	5.17	95	JUN 25	18.9	--
OCT 16	4.29	109	MAY 20	10.4	87	DEC 08	4.84	94	JUL 15	6.52	--
NOV 21	6.43	--	JUN 17	3.58	99	JAN 15, 1998	10.5	89	AUG 24	3.15	71
DEC 30	15.4	--	JUL 15	.72	84	FEB 17	11.1	86	SEP 28	3.12	74
JAN 23, 1997	13.4	92.0	AUG 27	1.87	101	MAR 24	20.4	72	OCT 27	2.40	81
01115700. Unnamed tributary to Congdon River. Latitude 41˚36’46”, longitude 71˚37’06”, Kent County, at Sweet Sawmill Road, 1.3 mi southeast of Nooseneck, RI. Drainage area: 0.48 mi^2.											
JUL 18, 1996	0.62	--	FEB 20, 1997	1.48	50	SEP 17, 1997	0.37	46	APR 13, 1998	1.96	46
AUG 15	.40	44	MAR 17	1.28	50	OCT 16	.33	46	MAY 19	1.92	45
SEP 26	.30	45	APR 14	2.35	47	NOV 12	.54	50	JUN 25	2.21	--
OCT 16	.41	47	MAY 20	1.31	47	DEC 08	.58	49	JUL 15	1.44	--
NOV 21	.72	--	JUN 17	.70	45	JAN 15, 1998	.87	60	AUG 24	.81	42
DEC 30	1.79	--	JUL 15	.46	45	FEB 17	1.39	56	SEP 28	.66	42
JAN 23, 1997	1.57	52	AUG 27	.43	46	MAR 24	2.63	50	OCT 27	.42	45

Table 14. Discharge measurements and specific conductance at partial-record streamflow sites in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)
01115730. Carr River tributary to Capwell Mill Pond. Latitude 41˚38’01”, longitude 71˚34’52”, Kent County, at New London Turnpike, 4 mi southwest of Washington, RI. Drainage area: 2.88 mi^2.											
JUL, 1996	--	--	FEB 21, 1997	8.79	47	SEP 17, 1997	0.78	52	APR 13, 1998	12.4	46
AUG	--	--	MAR 18	6.72	49	OCT	--	--	MAY 20	13.6	43
SEP	--	--	APR 14	16.5	--	NOV 12	2.83	41	JUN 25	13.2	--
OCT	--	--	MAY 20	8.20	47	DEC 09	2.64	50	JUL 16	5.42	50
NOV	--	--	JUN 17	2.23	48	JAN 15, 1998	7.74	44	AUG 24	2.92	62
DEC	--	--	JUL 15	.24	49.7	FEB 17	10.8	43.5	SEP 29	1.06	53.1
JAN 24, 1997	8.37	50.2	AUG 27	.49	52.9	MAR 24	21.7	42.2	OCT 27	1.12	58.9
01115770. Carr River tributary to Big River. Latitude 41˚38’35”, longitude 71˚36’30”, Kent County, at Burnt Sawmill Road, 1.5 mi northeast of Nooseneck, RI and 4 mi southwest of Washington, RI. Drainage area: 7.33 mi^2. Water years 1964–80 and 1995-96 previously measured.											
JUL 18, 1996	8.62	--	FEB 20, 1997	16.0	51	SEP 17, 1997	1.80	48	APR 13, 1998	20.6	48
AUG 15	5.52	41	MAR 18	14.7	46	OCT 16	1.00	49	MAY 19	21.1	45
SEP 26	4.66	44	APR 14	29.6	42	NOV 12	7.32	57	JUN 25	22.9	--
OCT 16	4.47	47	MAY 20	13.3	41	DEC 08	5.97	55	JUL 15	9.87	--
NOV 21	8.09	--	JUN 17	.41	47	JAN 15, 1998	13.9	49	AUG 24	3.43	47
DEC 30	20.4	--	JUL 15	.94	43	FEB 17	17.1	52	SEP 28	2.68	44
JAN 23, 1997	19.4	--	AUG 27	3.19	45	MAR 24	28.9	49	OCT 27	2.62	51
01115800. Big River tributary to Pawtuxet River. Latitude 41˚38’41”, longitude 71˚36’48”, Kent County, at State Highway 3, 0.6 mi east of Kitts Corner, RI. Drainage area: 23.1 mi^2. Water years 1992-96 previously measured.											
JUL 18, 1996	24.9	--	FEB 20, 1997	59.0	113	SEP 18, 1997	9.45	117.0	APR 14, 1998	68.1	81
AUG 15	16.4	110	MAR 17	59.0	97	OCT 17	5.83	128	MAY 19	71.9	74
SEP 27	14.4	108	APR 15	102	80	NOV 12	31.4	96	JUN 26	80.9	--
OCT 16	17.9	117	MAY 21	43.8	96	DEC 08	26.3	107	JUL 15	32.7	--
NOV 21	30.9	--	JUN 18	15.4	110	JAN 15, 1998	51.9	98	AUG 25	12.6	86
DEC 30	79.6	--	JUL 16	7.82	119	FEB 17	62.7	94	SEP 29	11.8	90
JAN 23, 1997	71.5	101	AUG 28	10.6	106	MAR 25	121	82	OCT 27	8.11	96

Table 14. Discharge measurements and specific conductance at partial-record streamflow sites in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)
01115830. Bear Brook tributary to Pawtuxet River. Latitude 41˚39’37”, longitude 71˚37’42”, Kent County, at Fish Hill Road, 3 mi southeast of Coventry, RI. Drainage area: 3.98 mi^2. Water years 1961–63 previously measured.											
JUL 18, 1996	2.04	--	FEB 21, 1997	9.46	89	SEP 18, 1997	1.05	97	APR 14, 1998	10.7	73
AUG 16	1.38	95	MAR 18	8.93	87	OCT 17	.56	119	MAY 20	9.96	73
SEP 27	1.57	96	APR 15	13.6	80	NOV 13	4.52	80	JUN 26	11.0	--
OCT 17	1.65	101	MAY 21	7.60	82	DEC 09	4.68	92	JUL 16	3.54	69
NOV 22	5.12	--	JUN 18	1.67	100	JAN 15, 1998	10.5	86	AUG 25	1.06	80
DEC 31	13.1	--	JUL 16	1.29	117	FEB 17	11.7	85	SEP 29	.45	74
JAN 24, 1997	10.1	92	AUG 27	.62	101	MAR 25	17.7	73	OCT 28	1.06	81
01115963. Old Hickory Brook tributary to Pawtuxet River. Latitude 41˚39’23”, longitude 71˚36’00”, Kent County, at Mishnock Road, 1.5 mi northeast of Kitts Corner, RI. Drainage area: 0.33 mi^2.											
JUL 18, 1996	0.08	--	FEB 21, 1997	0.42	487	SEP 18, 1997	0.05	329	APR 14, 1998	0.50	375
AUG 16	.08	410	MAR18	.30	566	OCT 17	.02	333	MAY 20	.54	348
SEP 27	.11	403	APR 15	.51	538	NOV 13	.19	350	JUN 26	.57	--
OCT 17	.09	393	MAY 21	.27	377	DEC 09	.13	374	JUL 16	.16	228
NOV 22	.25	--	JUN 18	.06	303	JAN 15, 1998	.35	610	AUG 25	.03	183
DEC 31	.46	--	JUL 16	.05	297	FEB 17	.52	545	SEP 29	.02	218
JAN 24, 1997	.33	449	AUG 27	.03	293	MAR 25	.76	459	OCT 28	.03	260
01115965. Outflow of Lake Mishnock tributary to Pawtuxet River. Latitude 41˚39’20”, longitude 71˚35’28”, Kent County, at Mishnock Road, 1.9 mi northeast of Kitts Corner, RI. Drainage area: 0.29 mi^2.											
JUL 18, 1996	3.76	--	FEB 21, 1997	3.78	219	SEP 18, 1997	2.73	282	APR 14, 1998	4.77	278
AUG 16	2.99	266	MAR 18	3.78	282	OCT 17	2.28	290	MAY 20	4.89	276
SEP 27	2.92	269	APR 15	4.64	209	NOV 13	3.33	212	JUN 26	4.98	244
OCT 17	2.62	266	MAY 21	3.95	279	DEC 09	3.55	300	JUL 16	4.49	280
NOV 22	3.36	--	JUN 18	3.36	285	JAN 15, 1998	3.15	295	AUG 25	3.30	301
DEC 31	3.70	--	JUL 16	3.16	290	FEB 17	8.33	285	SEP 29	2.70	312
JAN 24, 1997	4.81	276	AUG 27	3.06	286	MAR 25	5.79	270	OCT 28	3.01	312

Table 14. Discharge measurements and specific conductance at partial-record streamflow sites in the Big–Mishnock stream-aquifer system, central Rhode Island, 1996–98—*Continued*

Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)	Date	Discharge (ft^3/s)	Specific conductance (µS/cm)
01115970. Mishnock River tributary to Pawtuxet River. Latitude 41˚40’44”, longitude 71˚34’52”, Kent County, at State Highway 3, 1 mi southeast of Washington, RI. Drainage area: 3.32 mi^2. Water years 1961–63 previously measured.											
JUL 18, 1996	5.86	--	FEB 21, 1997	8.85	189	SEP 18, 1997	3.15	243	APR 14, 1998	9.60	187
AUG 16	3.69	232	MAR 18	8.95	189	OCT 17	2.43	262	MAY 20	8.28	187
SEP 27	4.58	205	APR 15	12.9	177	NOV 13	6.43	183	JUN 26	9.28	162
OCT 17	4.27	197	MAY 21	7.57	164	DEC 09	4.42	204	JUL 16	4.98	247
NOV 22	5.33	--	JUN 18	3.48	266	JAN 15, 1998	7.40	182	AUG 25	2.93	288
DEC 31	9.49	--	JUL 16	3.15	--	FEB 17	9.68	212	SEP 29	3.28	258
JAN 24, 1997	9.59	181	AUG 28	3.28	255	MAR 25	12.8	178	OCT 28	3.54	248

Table 15. Specific conductance and temperature at selected surface-water sites in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–98

[Site locations are shown on plate 1. No., number; µS/cm, microsiemens per centimeter at 25˚C; ˚C, degrees Celsius; --, no data available]

Site No.	Location of selected surface-water sites	April 16, 1997		October 21, 1997		April 22, 1998		October 23, 1998	
		Specific conductance (µS/cm)	Temperature (˚C)	Specific conductance (µS/cm)	Temperature (˚C)	Specific conductance (µS/cm)	Temperature (˚C)	Specific conductance (µS/cm)	Temperature (˚C)
1	Nooseneck River at Sharp Street	43	11.3	56	13.7	40	14.6	54	9.3
2	Nooseneck River at Fry School Road	47	12.7	60	16.2	48	14.5	55	9.3
3	Unnamed tributary to Nooseneck River at unnamed road	47	10.5	48	9.9	40	12.4	44	7.4
4	Raccoon Brook at Robin Hollow Road	295	10.5	340	9.7	235	12.6	251	7.8
5	Unnamed tributary #1 to Nooseneck River at Yard Pond outlet	35	13.9	39	9.2	33	17.6	--	--
6	Nooseneck River at State Highway Route 3	113	13.2	251	9.3	94	10.6	173	6.7
7	Unnamed tributary #2 to Nooseneck River at unnamed pond outlet, West of Nooseneck Hill Road	228	11.2	--	--	179	11.2	--	--
8	Unnamed tributary #2 to Nooseneck River, West of Nooseneck Hill Road, between sites 7 and 9	265	--	--	--	--	--	272	8.1
9	Unnamed tributary #2 to Nooseneck River as State Highway Route 3	270	11.0	455	10.4	20	10.3	274	8.4
10	Congdon River at Pine Hill Road	38	7.9	436	8.4	34	10.9	44	6.6
11	Unnamed tributary #1 to Congdon River at Pine Hill Road	100	10.1	--	--	35	14.8	86	7.2
12	Unnamed tributary #2 to Congdon River at New London Turnpike	83	11.3	99	4.9	67	15.7	81	10.1
13	Congdon River at Congdon Mill Road	84	9.1	101	8.8	66	13.1	80	7.7
14	Unnamed tributary #3 to Congdon River at New London Turnpike	54	10.4	--	--	45	17.3	53	8.6
15	Unnamed tributary #3 to Congdon River at Sweet Sawmill Road	48	7.6	47	9.2	43	12.1	45	7.9
16	Carr River at Carr Pond outlet	33	10.5	37	13.9	32	13.4	32	14.6
17	Unnamed tributary #1 to Carr River at New London Turnpike	86	8.7	--	--	83	10.8	108	7.5
18	Carr River at Hopkins Hill Road, at outlet of Tarbox Pond	44	11.4	60	11.8	43	14.1	66	10.9
19	Carr River at New London Turnpike	44	10.6	51	12.6	42	13.2	59	9.8
20	Unnamed tributary #2 to Carr River at Hopkins Hill Road	46	9.5	--	--	43	8.5	49	6.9
21	Unnamed tributary #3 to Carr River at Hopkins Hill Road	41	14.0	95	11.6	323	11.2	660	9.7
22	Unnamed tributary #3 to Carr River at Division Road	408	13.0	918	9.7	336	10.1	648	7.0
23	Quarry Pond at old gravel pit, off Division Road	229	12.4	216	14.7	173	15.7	267	11.4
24	Unnamed tributary #3 to Carr River at unnamed dirt road	346	10.5	--	--	252	13.8	--	--
25	Mud Bottom Brook at Sweet Sawmill Road	36	7.5	--	--	35	14.2	40	7.1

Table 15. Specific conductance and temperature at selected surface-water sites in the Big–Mishnock stream-aquifer system, central Rhode Island, 1997–98 *—Continued*

Site No.	Location of selected surface-water sites	April 16, 1997		October 21, 1997		April 22, 1998		October 23, 1998	
		Specific conductance (µS/cm)	Temperature (˚C)	Specific conductance (µS/cm)	Temperature (˚C)	Specific conductance (µS/cm)	Temperature (˚C)	Specific conductance (µS/cm)	Temperature (˚C)
26	Unnamed tributary #4 to Carr River at Sweet Sawmill Road	47	6.8	39.1	6.6	42	12.2	44	7.4
27	Carr River at Burnt Sawmill Road	47	11.5	48	10.1	47	14.1	53	10.0
28	Big River as State Highway Route 3	94	12.0	132	9.3	80	12.2	100	8.6
29	Unnamed tributary #1 to Big River at Rice Trail	55	13.0	--	--	49	14.1	73	8.6
30	Unnamed tributary #1 to Bear Brook at Harkney Hill Road	168	9.5	--	--	127	12.4	--	--
31	Unnamed tributary #1 to Bear Brook at Rice Trail	141	9.5	--	--	113	12.6	--	--
32	Unnamed tributary #2 to Bear Brook at Harkney Hill Road	224	7.5	--	--	148	10.3	--	--
33	Unnamed tributary #2 to Bear Brook at Rice Trail	273	11.0	264	10.3	185	13.2	130	8.5
34	Unnamed tributary #3 to Bear Brook at Fish Hill Road	50	7.5	54	10.5	46	10.4	47	6.8
35	Unnamed tributary #3 to Bear Brook at Rice Trail	41	11.5	41	7.7	37	14	39	7.6
36	Unnamed tributary #4 to Bear Brook at Harkney Hill Road	50	7.5	267	10.2	44	11.1	44	5.7
37	Bear Brook at Fish Hill Road	85	8.5	109	7.0	67	11.0	83	6.3
38	Big River at Harkney Hill Road	129	12.5	131	10.7	78	12.7	96	10.2
39	Old Hickory Brook at Mishnock Road	530	11.5	335	10.3	336	11.9	278	7.6
40	Mishnock River at Mishnock Road, at Lake Mishnock outlet	270	14.0	293	15.3	255	15.5	327	13.4
41	Mishnock River as State Highway Route 3	188	10.0	268	9.6	156	11.8	257	8.8

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island

[Depth in feet below land surface. COW, Coventry well; WGW, West Greenwich well. Description of the sediment: Wentworth grade scale was used for logs described by geologist; SS, split spoon; ft, foot]

Wentworth Grade Scale	
Grain size in millimeters	**Sediment term**
	Boulder
256	----------
	Cobble
64	----------
	Pebble
4	----------
	Granule
2	----------
	Very coarse sand
1	----------
	Coarse sand
0.5	----------
	Medium sand
0.25	----------
	Fine sand
0.125	----------
	Very fine sand
0.062	----------
	Silt
0.004	----------
	Clay

The following terms were used to approximate the percentage of grain sizes in a sample described by geologist.

Term	Percent
trace	0-10
little	10-20
some	20-35
with	35-49
and	50

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
COW 479		
Sand, very fine to very coarse; interbedded; some silt; little granule gravel, light brown	0	21
Silt and very fine sand; light brownish gray	21	28
Silt; some very fine sand; light brownish gray	28	35
Silt and very fine sand; light brownish gray	35	42.5
Sand, very fine and silt; light brownish gray	42.5	49.5
Sand, very fine; some silt; light brownish gray	49.5	63
Refusal		63
WGW 285		
Sand, fine to medium; trace coarse; dark brown	0	1.5
Sand, fine to medium; medium brown	1.5	3.5
Sand, fine to coarse; granule gravel; medium brown	3.5	5
Sand, fine; trace silt; light brown; damp	5	11
Sand, fine; trace silt; light brown; wet	11	21
Sand, fine; trace silt; light to medium brown; wet	21	23
Sand, fine; trace silt; light to medium brown	23	28
No returns	28	31.5
Refusal, probable bedrock		31.5
WGW 286		
Sand, fine to medium; medium brown	0	1.5
Sand, fine to medium; light brown	1.5	2
Sand, fine to coarse; some gravel; light brown	2	2.5
Sand, medium; some gravel; little fine sand; light brown	2.5	12
Sand, medium; light brown	12	17
Sand, fine to medium; light brown	17	55
Sand, very fine; light brown	55	57
No returns	57	58
Refusal, possibly till or bedrock		64
WGW 287		
Sand, medium; medium brown	0	1
Sand, medium to coarse; medium brown	1	4
Sand, medium to coarse; little gravel; medium brown	4	6
Sand, medium to coarse; medium brown	6	14
Sand, medium to coarse; some gravel; medium brown	14	16
Sand, medium to coarse; medium brown	16	19
Sand, medium to coarse; some gravel; medium brown	19	23
Refusal, possibly boulder or bedrock		23
WGW 288		
Sand, fine to very fine; trace silt; medium brown	0	1.5
Sand, medium to coarse; some gravel	1.5	12
Sand, medium to coarse; little gravel	12	23
Refusal, probable boulder		23
WGW 289		
Sand, fine to medium; trace granule to pebble gravel; light brown	0	9
Sand, medium; trace granule and pebble gravel; light brown	9	11
Sand, medium to coarse; some very coarse sand to granule gravel; trace pebble gravel	11	19
Sand, very fine, interbedded with coarse sand; some pebbles	19	21
Sand, medium to very coarse; some granule gravel	21	29
Sand, fine to medium, interbedded with coarse to very coarse sand with granule gravel; light brown	29	31
Sand, medium to coarse; little very coarse; little granule gravel; trace fine	31	51
Sand, medium to coarse; trace very fine sand; trace very coarse sand; trace granule gravel	51	61
Sand, medium to coarse; trace very coarse sand; trace granule gravel	61	79.5
Refusal, probable bedrock		79.5
WGW 290		
Sand, fine to medium; trace granule to pebble gravel; light brown	0	9
Sand, medium; trace granule to pebble gravel; light brown	9	11
Sand, medium to coarse; some very coarse sand to granule gravel, trace pebble gravel	11	19
Sand, interbedded, very fine to coarse; some pebble gravel	19	21
Sand, medium to very coarse; some granule gravel	21	29.5
Bottom of hole		29.5
WGW 291		
Organics, dark brown to black; little fine sand	0	2
Sand, very fine with silt; light brown; interbedded with silt with very fine sand light grey brown	2	6
Silt, trace fine sand, light gray	6	57
No returns	30	50
Refusal, possible boulder or bedrock		57

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 292		
Sand, very fine to fine; medium brown	0	1.5
Sand, very fine to fine; light brown	1.5	15
Sand, fine; some silt; light brown	15	18.5
SS - driven 2 ft, 18.5 ft to 20.5 ft, recovered 0.8 ft		
Sand, fine; some silt; light gray brown	18.5	18.6
Sand, coarse; some pebble gravel; light brown	18.6	19.3
SS - driven 2 ft, 28.5 ft to 30.5 ft, recovered 1.5 ft		
Sand, coarse; some medium sand; some pebble gravel	28.5	29
Sand, coarse and pebble gravel; some cobbles	29	30
SS - driven 2 ft, 38.5 ft to 40.5 ft, recovered 1 ft		
Cobbles; some coarse sand; medium brown	38.5	39.1
Sand, medium to coarse; with pebble gravel	39.1	39.5
SS - driven .5 ft, 48.5 to 49 ft, recovered 0.5 ft		
Cobbles, competent	48.5	48.8
Rotten rock	48.8	49
SS - driven 2 ft, 58.5 to 60.5, recovered 2 ft		
Sand, medium to coarse	58.5	58.7
Sand, fine to medium; little silt	58.7	59.1
Sand, fine to medium	59.1	60.5
SS - driven 1 ft, 68.5 to 69.5, recovered 1 ft		
Sand, fine to medium	68.5	68.7
Sand, fine; with silt, and gravel, light gray probable till	68.7	69.5
Refusal		73
WGW 293		
Sand, very fine to fine; medium brown	0	1.5
Sand, very fine to fine; light brown	1.5	15
Sand, fine; some silt; light brown	15	21
Bottom of hole		21
WGW 294		
Organic layer; dark brown to black	0	1.5
Sand, fine; with silt; medium brown	1.5	4
Sand, medium to coarse; medium brown	4	8
Sand, fine to medium; with silt; medium brown	8	12
Silt; with fine sand; medium brown	12	20
Silt; with fine sand; some coarse sand; some pebble gravel; medium brown	20	21.5
Refusal, possible boulder		21.5
WGW 295		
Sand, very fine; with silt; topsoil; medium gray brown	0	1
Sand, very fine; with silt; medium gray brown	1	24
Bottom of hole		24
WGW 296		
Sand, fine; dark brown	0	2
Sand, medium to coarse; little fine sand; some gravel	2	4
Gravel, sub-rounded; with coarse sand	4	11
Sand, fine; light brown	11	15
No returns; probable gravel layer	15	16
Sand, fine; light brown; damp	16	21
No returns; probable gravel layer	21	22
Sand, fine; trace gravel; light brown	22	32
Sand, coarse; with gravel	32	36
Easy drilling, no change in cuttings	36	40
Possible boulder or bedrock	40	41.9
Refusal		41.9
WGW 297		
Sand, fine; medium brown	0	1
Sand, fine to coarse; with gravel; light to medium brown	1	4
Sand, fine; light brown	4	12
Sand, very fine; light gray brown	12	22
Sand, very fine; with silt; light gray brown	22	25
Sand, very fine; with silt; trace gravel	25	27
Sand, fine to medium; light gray brown	27	32
Sand, medium; medium brown	32	40
Sand, medium; some fine sand; light gray brown	40	50
Sand, very fine; with silt; light gray	50	55
Bottom of hole		61
WGW 298		
Sand, fine; little silt; medium to dark brown	0	.5
Sand, very fine; some silt; light brown	.5	1.5
Sand, very fine; with silt; light gray	1.5	7
Sand, very fine to fine; some silt; light brown	7	12
Sand, very fine; with silt; light gray; damp	12	16
Sand, very fine; with silt; light gray; very damp	16	20
Sand, very fine; with silt; light gray; wet	20	34
Bottom of hole		34

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 299		
Sand, fine to medium; some coarse; light brown	0	2
Sand, fine to medium; light brown	2	12
Sand, fine to medium; trace gravel; light brown	12	22
Sand, fine to medium; light brown	22	27
Sand, fine to medium; trace gravel; light brown	27	44.5
Bottom of hole		44.5
WGW 300		
Sand, fine to medium; trace silt; medium to dark brown	0	1.5
Sand, fine; with silt; trace gravel; medium brown	1.5	5
Sand, fine; some silt; medium brown	5	8
Sand, very fine; with silt; light gray brown	8	23.5
Bottom of hole		23.5
WGW 301		
Sand, fine to medium; trace silt; medium to dark brown	0	1.5
Sand, fine; with silt; trace gravel; medium brown	1.5	5
Sand, fine; some silt; medium brown	5	8
Sand, very fine; with silt; light gray brown	8	49
SS - driven 2 ft, 8 ft to 10 ft, recovered 2 ft		
Sand, very fine; with silt; light gray brown	8	10
SS - driven 2 ft, 18 ft to 20 ft, recovered 1.5 ft		
Sand, very fine; light gray brown	18	19.5
SS - driven 2 ft, 28 ft to 30 ft, recovered 2 ft		
Sand, fine to very fine; little silt; light gray brown	28	28.8
Sand, very fine; with silt; light gray brown	28.8	30
SS - driven 2 ft, 38 ft to 40 ft, recovered 1.5 ft		
Sand, very fine; with silt; light gray brown	38	39.5
SS - driven 2 ft, 48 ft to 50 ft, recovered 1.5 ft		
Sand; very fine to fine; some silt; light gray brown	48	49
Sand; medium to coarse; some silt	49	49.1
Sand, fine; light gray brown	49.1	49.5
SS - driven 2 ft, 58 ft to 60 ft, recovered 1.5 ft		
Sand, very fine; little silt; light gray brown	58	59.3
Cobble, overdriven in shoe of sampler	59.3	59.5
SS - driven 2 ft, 68 ft to 70 ft, recovered 1.5 ft		
Sand, medium to coarse; interbedded	68	68.4
Sand, coarse; with pebbles	68.4	68.7
Sand, fine to medium	68.7	69.5
WGW 301—*Continued*		
SS - driven 2 ft, 78 ft to 80 ft, recovered 1.5 ft		
Sand, medium to coarse	78	78.2
Sand, fine to medium	78.2	78.7
Sand, coarse to very coarse; granule gravel; small pebbles	78.7	79.1
Sand, fine	79.1	79.3
Sand, medium to coarse	79.3	79.5
SS - driven 2 ft, 95 ft to 97 ft, recovered 1 ft		
Sands, coarse to very coarse and fine to medium sand; interbedded	95	96
SS - driven 2 ft, 98 ft to 100 ft, recovered 1.3 ft		
Gravel, granule	98	98.4
Sand, very fine to fine; fine to medium; and coarse sand, interbedded	98.4	99.3
SS - driven 2 ft, 108 ft to 110 ft, recovered 1 ft		
Sand, medium and coarse to very coarse with granule gravel, interbedded	108	109
SS - driven 2 ft, 118 ft to 120 ft, recovered 1.2 ft		
Sand, very coarse; granule gravel	118	118.1
Sand, medium	118.1	118.5
Sand, coarse to very coarse; trace granule gravel	118.5	118.7
Silt, with fine sand	118.7	118.9
Sand, coarse to very coarse; granule gravel some pebbles	118.9	119.2
SS - driven 2 ft, 128 ft to 130 ft, recovered 0.5 ft		
Gravel, granule	128	128.5
SS - driven 2 ft, 138 ft to 140 ft, recovered 1.5 ft		
Sand, medium	138	138.1
Sand, coarse to very coarse; granule gravel; some pebbles	138.1	138.3
Sand, medium to coarse; some pebbles	138.3	138.5
Sand, fine to medium	138.5	138.7
Silt, very fine sand; trace pebbles	138.7	139
Sand, very fine; some silt	139	139.5
SS - driven 2 ft, 148 ft to 150 ft, no return		
Bottom of hole		150
WGW 302		
Sand, medium; trace coarse; dark brown	0	1
Sand, coarse to very coarse, some granule gravel and pebbles; light brown	1	35
Sand, fine; little coarse; some pebbles; light brown	35	49
rig chatter probable cobbles at 49 ft		
Sand, fine to very fine; trace pebble gravel; trace coarse sand	49	83
Bottom of hole		83

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 303		
Sand, medium; dark brown	0	2
Sand, medium; some gravel; light brown	2	10
Sand, fine; some silt; trace pebble gravel; wet	10	16
Sand, very fine; with silt; little clay	16	20
Sand, very fine; with silt; light brown	20	21
Sand, fine; light brown	21	30
Sand, fine; some silt; light brown	30	31
Sand, fine; light brown	31	41
Sand, fine; some very fine	41	69
Sand, fine; little medium; light brown	74	80
Refusal, probable boulder or bedrock		81
WGW 304		
Sand, fine; little coarse; red brown	0	4
Gravel, sub-rounded to rounded; with fine sand; light brown	4	6
Sand, fine to medium; trace coarse; light brown	6	19
Sand, fine to medium; little coarse; medium brown	19	23
Sand, coarse; with pebble gravel; sub-rounded	23	24
Sand, coarse to very coarse; some pebble gravel; trace fine sand	24	33
Sand, coarse to very coarse; some medium; trace fine	33	34
Sand, coarse to very coarse; trace medium and fine	36	43
Sand, coarse to very coarse; trace medium and fine; light brown	45	54
Refusal		56
WGW 306		
No return	0	6
Sand, fine to medium; some coarse to very sand and granule gravel; trace silt; very fine sand and pebble gravel; brown	6	13
Silt and very fine to fine sand; trace medium to very coarse sand and granule to pebble gravel; brownish gray	13	20
Sand, medium to very coarse and granule gravel; trace silt, fine sand and pebble gravel; brown	20	27
Sand, very coarse and granule gravel; little pebble gravel; trace fine sand and cobble gravel; brown	27	34
Sand, medium to coarse; some very coarse sand; little granule gravel; trace fine sand and pebble gravel; brown	34	41
WGW 306—*Continued*		
Sand, medium to coarse; little very coarse sand and granule gravel; trace fine sand and pebble gravel; brown	41	48
Sand, fine to coarse; little silt and very fine sand; trace clay, very coarse sand and granule gravel; brown	48	55
Sand, medium to very coarse; little granule gravel; trace fine sand; brown	55	69
Sand, coarse to very coarse and granule gravel; little medium sand; trace fine sand and pebble gravel; brown	69	91
Sand, medium to coarse; some very coarse sand and granule gravel; little fine sand; trace clay, silt and very fine sand; brown	91	98
Sand, fine to coarse; little silt and very fine sand; trace clay, very coarse sand and granule to pebble gravel; brown to grayish brown	98	105
Sand, fine to medium; some silt, very fine sand and coarse sand; grayish brown	105	112
Silt and very fine to fine sand; trace coarse to very coarse sand; gray	112	119
Sand, very fine to medium; some silt; trace	119	126
Sand, very fine to fine; some silt and medium very coarse sand; grayish brown sand; trace clay; grayish brown	126	140
Silt and very fine to fine sand; trace clay, very coarse sand and granule gravel; gray	140	157
Sand, medium to granule gravel; brown	157	162
Sand, very coarse to granule gravel; little coarse sand; trace medium sand; brown	162	168
Gravel, granule to pebble; little very coarse sand; trace coarse sand; brown	168	183
Refusal		183
WGW 307		
Sand, coarse to very coarse and granule gravel to pebble gravel; brown	0	6
Sand, medium to coarse; little very coarse sand and granule gravel; trace pebble gravel; brown	6	13
Sand, coarse to very coarse; trace granule gravel; brown	13	20
Sand, coarse to very coarse and granule gravel; brown	20	27
Sand, very coarse and granule gravel; little coarse sand and pebble gravel; brown	27	34
Sand, very coarse and granule gravel; little coarse sand; trace medium sand; brown	34	41

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 307—*Continued*		
Sand, coarse to very coarse; some granule gravel; trace medium sand; brown	41	48
Sand, very coarse and granule gravel; some coarse sand; trace fine sand and pebble gravel; brown	48	55
Sand, coarse to very coarse; some granule gravel; trace fine to medium sand; brown	55	62
Sand, coarse to very coarse and granule gravel; trace fine to medium sand; brown	62	69
Sand, very coarse and granule gravel; some coarse sand; little granule gravel; brown	69	76
Sand, coarse to very coarse and granule gravel; little pebble gravel; trace medium sand; brown	76	90
Sand, very coarse and granule gravel; little coarse sand and pebble gravel; brown	90	97
Gravel, granule to pebble; some very coarse sand; trace coarse sand; brown	97	104
Gravel, granule to cobble; trace coarse to very coarse sand; brown	104	111
Sand, very coarse and granule gravel; little coarse sand; brown	111	118
Sand, very coarse and granule to pebble gravel; trace medium to coarse sand and cobble gravel; brown	118	132
Sand, very coarse and granule to boulder gravel; brown; hard packed	132	135
Refusal		135
WGW 308		
Sand, medium to coarse; trace fine sand, very coarse sand and granule to pebble gravel; light brown	0	6
Sand, medium to very coarse; little granule gravel; trace fine sand and pebble gravel; brown	6	13
Sand, medium to coarse; little fine sand; trace of very coarse sand and granule gravel; brown	13	27
Sand, medium to very coarse; little granule gravel; trace clay, fine sand and pebble gravel; brown	27	34
Sand, fine to medium; little very coarse sand and granule gravel; trace clay and pebble gravel; brown	34	48
Sand, very fine to fine; trace silt and granule gravel; grayish brown	48	55
Sand, very fine to fine; little silt; grayish brown	55	69
WGW 308—*Continued*		
Sand, very fine to fine; little silt; trace clay; grayish brown	69	76
Sand, very fine to fine; little silt; trace clay and cobble gravel; grayish brown	76	83
Sand, very fine to fine; trace clay, silt, very coarse sand and granule gravel; grayish brown	83	97
Sand, fine to medium; little very coarse sand; trace coarse sand and granule gravel; brown	97	104
Sand, medium to very coarse and granule to cobble gravel; trace fine sand; brown	104	111
Sand, very coarse and granule gravel; little coarse sand; trace medium sand; reddish brown	111	118
Sand, very coarse and granule gravel; little coarse sand; trace medium sand and pebble to cobble gravel; reddish brown	118	131
Refusal		131
WGW 309		
Topsoil; dark blackish brown	0	1
Silt to pebble gravel; brown (till)	1	6
Clay to pebble gravel; brown (till)	6	19
Clay to cobble gravel; brown (till)	19	33
Refusal (till)		33
WGW 310		
No sample	0	6
Clay to cobble gravel; reddish brown (till)	6	12
Silt to cobble gravel; brown (till)	12	19
Silt to cobble gravel; whitish brown (till)	19	31
Refusal		31
WGW 311		
Topsoil	0	1
Sand, fine to medium; trace silt, very coarse sand and granule to pebble gravel; brown	1	12
Sand, very fine to fine; trace very coarse sand to pebble gravel; brown	12	20
Sand, very fine to fine; trace very coarse and pebble gravel; brown	20	26
Sand, very fine to fine; trace clay and very coarse sand; brown	26	35
Sand, very fine; trace clay, silt and fine sand; brown	35	56
Silt and clay; grayish brown	56	77
Sand, very fine; trace fine sand and very coarse sand; grayish brown	77	88

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 311—*Continued*		
Sand, medium to coarse; little very coarse sand, trace granule to pebble gravel; reddish brown	88	90
Sand very fine to pebble gravel; brown	90	97
Sand, fine to very coarse; trace silt and granule to pebble gravel; brown	97	104
Refusal		104
WGW 312		
No sample	0	6
Sand, very fine to fine; trace very coarse sand to pebble gravel; grayish brown	6	12
Sand, very fine to fine; grayish brown	12	20
Sand, very fine to fine; trace very coarse sand and granule gravel; grayish brown	20	27
Sand, very fine to fine; trace clay, silt, and very coarse sand; grayish brown	27	34
Sand, very fine to medium; trace coarse sand to pebble gravel; brown	34	41
Sand, fine to medium; little coarse sand to pebble gravel; brown	41	48
Sand, fine to medium; little coarse sand to granule gravel; brown	48	55
Sand, very fine to fine; trace very coarse sand and pebble gravel; brown	55	65
Sand, medium to very coarse and granule to pebble gravel; trace fine sand; reddish brown	65	69
Sand, very coarse and granule to pebble gravel; trace medium to coarse sand; reddish brown	69	76
Sand, coarse to granule gravel; trace medium sand; reddish brown	76	81
Sand, fine to medium; trace very coarse sand and granule gravel; reddish brown	81	83
Sand, coarse to granule gravel; trace fine to medium sand and pebble gravel; reddish brown	83	90
Sand, medium to very coarse; little granule gravel; trace fine sand and pebble gravel; brown	90	97
Sand, coarse to very coarse and granule gravel; trace fine sand and pebble gravel; brown	97	104
Sand, coarse to very coarse and granule gravel; trace very fine to fine sand and pebble gravel; grayish brown	104	111
WGW 312—*Continued*		
Sand, coarse to very coarse; little very fine to fine sand and granule gravel; grayish brown	111	118
Sand, very fine to medium; trace coarse to very coarse sand and granule gravel; grayish brown	118	125
Sand very fine to medium, little coarse to very coarse sand; trace granule gravel; grayish brown	125	132
Sand, very coarse and granule gravel; trace fine to coarse sand; grayish brown	132	139
Sand, very coarse and granule gravel; trace fine to coarse sand and pebble gravel; grayish brown	139	150
Refusal		150
WGW 313		
No returns	0	6
Sand, fine to medium; trace coarse sand to pebble gravel; brown	6	12
Sand, very fine to fine; little silt; trace very coarse sand to pebble gravel; grayish brown	12	20
Sand, very fine to fine; little clay; trace silt and cobble gravel; grayish brown	20	26
Silt and clay; trace very fine sand; grayish brown	26	34
Silt; little clay; trace granule gravel; gray	34	41
Sand, fine to medium and clay; trace silt and coarse to very coarse sand; grayish brown	41	48
Sand, medium to coarse; little very coarse sand; trace clay, fine sand and granule gravel; reddish brown	48	55
Sand, medium to coarse; trace fine sand, very coarse sand and granule to pebble gravel; reddish brown	55	62
Sand, medium to coarse; little very coarse sand; trace granule to pebble gravel; brown	62	69
Sand, medium to granule gravel; trace pebble to cobble gravel; brown	69	76
Sand, fine to very coarse; little granule gravel; brown	76	83
Sand, medium to very coarse; little granule gravel; trace fine sand; brown	83	90
Sand, medium to very coarse; trace fine sand and granule gravel; brown	90	97
Sand, medium to very coarse; trace fine sand; brown	97	104

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 313—*Continued*		
Sand, medium to very coarse; trace fine sand and granule gravel; brown	104	111
Sand, fine to medium; trace coarse to very coarse sand; brown	111	119
Sand, fine to medium; little very coarse sand; trace very fine sand, coarse sand and granule gravel; brown	119	126
Sand, fine to very coarse; trace very fine sand; brown	126	134
Refusal, probable bedrock		134
WGW 314		
Topsoil	0	1
Sand, fine to medium; reddish brown	1	4
Sand, medium to coarse; whitish brown	4	6
Sand, fine to coarse; trace very fine sand, very coarse sand and granule to pebble gravel; brown	6	20
Sand, very fine to medium; trace very coarse sand and pebble gravel; grayish brown	20	27
Sand, very fine to fine; trace silt and clay; grayish brown	27	34
Sand, very fine; trace clay, silt, fine sand and pebble gravel; grayish brown	34	41
Sand, very fine; trace clay and silt; grayish brown	41	48
Sand, very fine and silt; little clay; grayish brown	48	55
Sand, very fine and silt; trace clay and very coarse sand; grayish brown	55	62
Sand, very fine to fine; trace clay; grayish brown	62	70
Sand, very fine to fine; trace medium to very coarse sand and clay; brown	70	77
Sand, very fine to medium; trace coarse to very coarse sand; brown	77	84
Sand, fine to medium; trace very fine sand and coarse to very coarse sand; brown	84	91
Sand, fine to medium; little very coarse sand; trace clay and very fine sand; brown	91	98
Sand, fine to medium; little very coarse sand; trace coarse sand and granule gravel; brown	98	112
Sand, fine to medium; trace coarse to very coarse sand; brown	112	119
Sand, very fine to fine; little medium sand; trace clay and very coarse sand; brown	119	126
Sand, very fine to medium; trace silt and coarse to very coarse sand; brown	126	133
WGW 314—*Continued*		
Sand, fine to medium; trace coarse to very coarse sand; brown	133	140
Sand, fine to coarse; little very coarse sand; trace very fine sand and granule gravel; brown	140	156
Refusal		156
WGW 336		
Sand, fine to coarse with silt; medium brown	0	7
Sand, fine with silt; light gray	7	22
Sand, very fine and fine, interbedded; light gray; wet	22	52
Sand, fine to coarse; medium brown	52	62
Sand, fine to coarse; some gravel; gray brown	62	72
Sand, fine to coarse, interbedded; trace gravel; medium brown	72	82
Sand, fine to coarse, interbedded; trace gravel; reddish brown	82	87
Sand, medium to very coarse; trace gravel; reddish brown	87	97
Sand, fine to very coarse; granule gravel; brown	97	99
SS - driven 2 ft, 99 ft to 101 ft, recovered 0.5 ft		
Sand, fine to coarse; trace gravel; light gray	99	99.5
SS - driven 2 ft, 104 ft to 106 ft, recovered 1.5 ft		
Sand, fine to very coarse; trace silt; trace granule to pebble gravel; light and dark brown	104	105.5
SS - driven 2 ft, 109 ft to 111 ft, recovered 1.5 ft		
Sand, fine to very coarse; granule gravel, angular; trace to some silt; inter-bedded; light gray to medium brown	109	110.5
SS - driven 2 ft, 119 ft to 121 ft, recovered 1.8 ft		
Sand, fine to very coarse; gravel, angular; trace silt, inter-bedded; medium brown	119	120.8
SS - driven 2 ft, 129 ft to 131 ft, recovered 2.0 ft		
Sand, fine to very coarse; angular and granule gravel; medium brown	129	131
SS - driven 2 ft, 139 ft to 141 ft, recovered 2 ft		
Sand, fine to very coarse; gravel, angular; some silt; medium gray-brown	139	141
Bottom of hole		139.6
WGW 337		
Sand, fine to coarse; with silt; trace gravel; medium brown	0	4
Sand, very fine to fine; with silt; light gray	4	60
Sand, very fine to fine; with silt; trace gravel; light gray	60	62

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 337—*Continued*		
Sand, very fine to fine; with silt; light gray	62	90
Sand, very fine to coarse; with silt; light grayish brown	90	102
Sand, fine to very coarse; some silt; trace gravel, angular; medium brown	102	119
SS - driven 2 ft, 119 ft to 121 ft, recovered 0.5 ft		
Gravel; angular; clean	119	119.5
SS - driven 2 ft, 129 ft to 131 ft, recovered 1.2 ft		
Sand, fine to very coarse; with gravel, angular; trace to some silt; medium gray-brown	129	130.2
SS - driven 2 ft, 139 ft to 141 ft, recovered 2 ft		
Sand, fine to very coarse; trace silt	139	140
Rotten rock, structure still evident, trace till	140	141
Bottom of hole, probable bedrock		142
WGW 338		
Sand, very fine to coarse; with silt; trace gravel light to medium brown	0	4
Silt; with fine sand; light gray brown	4	119
SS - driven 2 ft, 119 ft to 121 ft, recovered 0.5 ft		
Sand, fine to very coarse; trace gravel; and silt; light gray; rotten rock in sampler	119	119.5
SS - driven 2 ft, 129 ft to 131 ft, recovered 1.5 ft		
Sand, very fine to very coarse, interbedded; with silt; trace gravel; light gray	129	130.5
SS - driven 2 ft, 134 ft to 136 ft, recovered 2 ft		
Sand, medium to very coarse; trace to some gravel, sub-angular to angular	134	136
Bottom of hole		138
WGW 339		
Sand, fine to very coarse; with gravel; some silt; medium brown	0	6
Sand, very fine to medium; with silt; light gray brown	6	119
SS - driven 2 ft, 119 ft to 121 ft, recovered 2 ft		
Sand, fine to medium, trace to some silt; light gray brown	119	119.5
Gravel, sub-angular	119.5	119.6
Sand, fine to very coarse; trace silt; light gray brown	119.6	121
SS - driven 2 ft, 129 ft to 131 ft, recovered 1.8 ft		
Sand, medium to very coarse; trace silt; light gray brown	129	130.8
SS - driven 2 ft, 134 ft to 136 ft, recovered 1.8 ft		
Sand, fine to very coarse; with gravel; some silt; light brown	134	135.8
Bottom of hole		140
WGW 340		
Sand, very fine to medium; with silt; light	0	4
Sand, very fine to medium; with silt; light gray brown gray	4	134
SS - driven 2 ft, 129 ft to 131 ft, recovered 0 ft	129	131
SS - driven 2 ft, 134 ft to 136 ft, recovered 2 ft		
Sand, medium to coarse; trace to some silt; gravel layer; light brown	134	136
SS - driven 2 ft, 139 ft to 141 ft, recovered 2 ft		
Sand, medium to very coarse; with gravel, angular; trace to some silt; light brown	139	140.5
Sand, very coarse and gravel; light brown	140.5	141
Bottom of hole		145
WGW 341		
Sand, fine to coarse; some gravel, sub-angular, sub-rounded; trace silt; light brown	0	7
Sand, very fine to fine; with silt; light gray	7	40
Sand, very fine to medium; with silt; light gray	40	120
Sand, very fine to medium; with silt; trace coarse sand; medium gray	120	127
SS - driven 2 ft, 127 ft to 129 ft, recovered 2 ft		
Sand, medium to coarse; trace gravel; light gray	127	127.2
Sand, very fine to fine; with silt; light gray	127.2	129
SS - driven 2 ft, 132 ft to 134 ft, recovered 2 ft		
Sand, fine to medium; with silt; light gray brown	132	132.4
Sand, fine to medium; with silt; light gray	132.4	134
SS - driven 2 ft, 137 ft to 139 ft, recovered 1.3 ft		
Sand, very fine to fine; with silt; light gray	137	137.1
Sand, fine to coarse; trace silt; trace gravel; light brown	137.1	138.1
Sand, coarse to very coarse; trace gravel; light brown	138.1	138.3
Refusal, probable bedrock		149
WGW 342		
Sand, fine to coarse; with cobbles (fill)	0	2
Sand, fine to coarse; trace gravel; medium brown	2	3
Sand, fine to coarse; trace silt; trace organics; dark gray	3	7
Sand, fine to coarse; trace to some gravel; medium brown	7	14.5
Sand, fine to coarse; some silt; light gray	14.5	19
No returns	19	29

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 342—*Continued*		
Sand, coarse to very coarse; with fine to medium gravel; trace silt; light gray brown; very wet	29	44
Sand, fine to medium; some coarse sand; trace silt; light gray brown	44	57
Sand, fine to very coarse; trace pebble gravel; and silt; light gray brown	57	81
Sand, fine to very coarse; trace silt; and gravel	81	108
SS - driven 2 ft, 108 ft to 110 ft, recovered 1.6 ft		
Sand, medium to coarse; light brown	108	109.2
Sand, very fine to medium; some silt; light gray	109.2	109.6
SS - driven 2 ft, 118 ft to 120 ft, recovered 1.6 ft		
Sand, fine to very coarse; with occasional thin laminates of fine to very fine sand with silt; trace gravel; light brown	118	119.6
SS - driven 2 ft, 124 ft to 126 ft, recovered 1.2 ft		
Sand, fine to coarse	124	124.2
Sand, very fine to medium; some silt, light gray	124.2	125.2
Bottom of hole		130
WGW 343		
Sand, fine to coarse; trace pebble gravel; trace silt; light brown	0	27
Sand, medium to very coarse; some fine sand; trace silt; light brown	27	72
Sand, medium to very coarse; some fine; trace silt; light brown	73	107
SS - driven 2 ft, 107 ft to 109 ft, recovered 1.6 ft		
Sand, fine to medium	107	107.2
Sand, very fine to fine; with silt; light gray	107.2	108.6
SS - driven 2 ft, 119 ft to 121 ft, recovered 1.8 ft		
Sand, fine to medium; trace silt; light brown	119	119.4
Sand, very fine; some silt; light gray	119.4	120.8
SS - driven 2 ft, 124 ft, 126 ft, recovered 2 ft		
Sand, fine to medium; some silt; light gray	124	124.5
Sand, medium; trace silt; light brown	124.5	124.6
Sand, very fine to medium; some silt; some staining	124.6	125
Sand, very coarse; trace silt; medium brown	125	125.3
Sand, very fine; silt; light gray	125.3	125.6
Sand, very coarse; trace silt	125.6	125.8
Sand, very fine; with silt; light gray	125.8	126
SS - driven 2 ft, 129 ft to 131 ft, recovered 0.2 ft		
Overdriven a cobble, very angular, shards of rock in spoon	129	129.2
Bottom of hole		131
WGW 344		
Sand, fine to medium; some coarse to very coarse; trace gravel; reddish brown	0	3.5
Sand, fine to medium; light brown	3.5	30
Sand, fine to coarse; light brown	30	42
Sand, fine to very coarse; trace pea gravel; light gray brown	42	82
Sand, fine to very coarse; trace silt; light brown	82	90
Sand, fine to coarse; trace pea gravel; trace silt; light brown	102	113
Gravel, layered (based on rig chatter and drill rates	113	117
SS - driven 2 ft, 119 ft to 121 ft, recovered 2 ft		
Sand, fine to coarse; light brown	119	119.6
Sand, fine to medium; some silt; light brown	119.6	119.8
Sand, medium to very coarse; some gravel; trace fine sand and silt	119.8	120.3
Sand, fine to very coarse; some gravel; trace to little silt	120.3	121
SS - driven 2 ft, 129 ft to 131 ft, no log of sample	129	131
Bottom of hole		131
WGW 345		
Sand, fine to medium; trace silt; dark brown	0	9
Sand, fine to coarse; some gravel; trace silt light brown; cobble at 18 ft	9	24
Sand, fine to medium; trace silt; light orange brown	24	30
Sand, fine to medium; trace silt; light brown	30	43
Sand, fine to coarse; trace silt; light brown	43	60
Sand, fine to very coarse; trace silt; trace gravel; light brown	60	85
Sand, fine to coarse; trace to little silt; light brown	85	119
SS - driven 2 ft, recovered 1.6 ft		
Sand, very fine to medium; some silt; light brown	119	120.6
SS - driven 2 ft, 119 ft to 121 ft, recovered 2 ft		
Sand, very fine to fine; trace silt; light gray	129	131
SS - driven 2 ft, 129 ft to 131 ft, recovered 2 ft		
Sand, very fine to fine; some silt; light gray	134	136
SS - driven 2 ft, 134 ft to 136 ft, recovered 2 ft		
Sand, very fine to fine; trace silt; light gray	149	150
Sand, medium to very coarse; some fine sand; trace silt; light gray	150	151
Bottom of hole		151

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 346		
Topsoil; sand, fine to medium; reddish brown	0	2
Sand, medium to coarse; trace clay and granule gravel; light brown	2	7
Sand, fine to medium; trace granule gravel; light brown	7	12
Sand, fine to medium; trace coarse sand; light brown	12	17
Sand, very fine to fine; trace medium sand; brown	17	22
Sand, very fine to fine; brown	22	27
Sand, very fine to fine; brown	27	42
Sand, very fine to fine; trace silt; medium brown	42	47
Sand, very fine to fine; some silt; medium brown	47	55
Reduction in auger returns	59	67
Sand, very fine to fine; some silt; medium brown	67	80
SS - driven 1.5 ft, 81 ft to 82.5 ft, recovered 0.5 ft		
Sand, very fine and silt	81	81.1
Sand, medium to coarse; little very coarse; brown	81.1	81.5
SS - driven 1.5 ft, 90 ft to 91.5 ft, recovered 1 ft		
Interbedded layers of very fine to fine sand with medium to coarse sand; trace granule gravel; brown	90	91.0
SS - driven 1.5 ft, 100 ft to 101.5 ft, recovered 1.5 ft		
Sand, medium to coarse; little fine; brown	100	101.5
SS - driven 1.5 ft, 110 ft to 111.5 ft, recovered 1 ft		
Sand, medium to coarse; little fine; brown	110	111
Bottom of hole		113
WGW 347		
Sand, fine to medium; granule gravel; brown	0	7
Sand, very fine to fine; light brown	7	32
Sand, fine to medium; trace coarse sand	32	37
Sand, fine to medium; brown	37	47
Sand, very fine to fine; trace silt; trace granule gravel; medium brown	47	62
Sand, very fine to fine; little silt; brown	62	80
SS - driven 1.5 ft, 80 ft to 81.5 ft, recovered 1 ft		
Thin laminates of sand, very fine to silt; with fine sand and fine to medium sand; trace coarse sand; brown	80	81
SS - driven 1.5 ft, 90 ft to 91.5 ft, recovered 0.8 ft		
Sand, medium to coarse; trace fine and very coarse sand	90	90.8
Bottom of hole, augers sand locked		95
WGW 348		
Sand, medium to coarse; little very coarse and granule gravel; brown	0	7
Sand, medium to coarse; little granule gravel; brown	7	12
Sand, fine; brown	12	22
Sand, very fine to fine; brown	22	27
Sand, medium to coarse; little fine sand; brown	27	32
Sand, very fine to fine; grayish brown	32	37
Silt; trace clay; gray	37	52
No returns	52	57
Minimal returns, trace pebble gravel	57	62
Silt; gray	62	65
No returns	65	77
Silt; gray	77	80
SS - driven 2 ft, 80 ft to 82 ft, recovered 0.7 ft		
Sand, coarse to very coarse; little granule gravel; brown	80	80.7
SS - driven 2 ft, 90 ft to 92 ft, recovered 1 ft		
Sand, coarse to very coarse; granule gravel brown	90	90.3
Sand, medium to coarse; little fine sand; brown	90.3	90.8
Sand, coarse to very coarse; granule gravel brown	90.8	91
SS - driven 2 ft, 99 ft to 101 ft, recovered 0.7 ft		
Sand, fine to very coarse and pebble gravel	99	99.7
SS - driven 2 ft, 113 ft to 115 ft, recovered 1.2 ft		
Sand, fine to very coarse; granule to pebble gravel; brown; tightly packed, possibly till	113	114.2
SS - driven 2 ft, 118 ft to 120 ft, recovered 2 ft		
Sand, fine to very coarse; granule to pebble gravel; trace silt; very fine sand, and cobbles; brown; tightly packed, possibly till	118	120
Bottom of hole		120
WGW 349		
Topsoil; dark brown	0	2
Sand, fine to medium; trace very coarse sand; light brown	2	7
Sand, fine to medium; trace coarse sand; light brown	7	12
Sand, very fine to fine; brown	12	32
Sand, fine and silt; brown	32	47
No returns	47	52
Silt and clay; soupy; grayish brown	52	83

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 349—*Continued*		
SS - driven 2 ft, 83 ft to 85 ft, recovered 1 ft		
Silt; gray	83	83.1
Sand, medium to coarse; brown	83.1	83.5
Sand, coarse to very coarse and granule to pebble gravel, brown	83.5	84
SS - driven 2 ft, 88 ft to 90 ft, recovered 1.1 ft		
Sand, coarse to very coarse; brown	88	88.2
Sand, fine to medium; brown	88.2	88.7
Sand, coarse to very coarse; brown	88.7	89.1
SS - driven 2 ft, 98 ft to 100 ft, recovered 1.7 ft		
Sand, coarse to very coarse; trace granule gravel	98	98.7
Sand, fine to medium; brown	98.7	99.7
SS - driven 2 ft, 108 ft to 110 ft, recovered 0.8 ft		
Sand, coarse to very coarse; little granule to pebble gravel; trace medium sand; brown	108	110
SS - driven 2 ft, 118 ft to 120 ft, recovered 1.3 ft		
Sand, medium to very coarse; granule gravel	118	118.4
Sand, fine to medium	118.4	118.6
Sand, coarse to very coarse and granule gravel	118.6	118.8
Sand, fine	118.8	119
Sand, coarse to very coarse	119	119.1
Sand, fine	119.1	119.3
Bottom of hole		120
WGW 350		
Sand, medium to coarse; little granule gravel; brown	2	7
Rig chatter, cobble at 10 ft		
Sand, coarse and pebble gravel; brown	7	12
Sand, medium to coarse; little granule gravel; brown	12	17
Sand, coarse to very coarse and granule gravel; brown	17	22
Sand, coarse to very coarse and granule gravel; brown	22	52
Sand, coarse to very coarse and granule and pebble gravel; brown	52	62
Sand, coarse to very coarse and granule gravel; brown	62	80
SS - driven 2 ft, 78 ft to 80 ft, recovered 1.3 ft		
Sand, medium to coarse; brown	78	78.5
Sand, coarse to very coarse and granule to pebble gravel; brown	78.5	78.8
Sand, fine to medium; little coarse to very coarse and pebble gravel; grayish brown	78.8	79.3
WGW 350—*Continued*		
SS - driven 2 ft, 89.5 ft to 91.5 ft, recovered 0.8 ft		
Sand, medium to very coarse and granule to pebble gravel; brown	89.5	90.3
SS - driven 2 ft, 98 ft to 100 ft, recovered 0.8 ft		
Sand, coarse to very coarse and granule gravel; brown	98	98.4
Sand, very fine to fine; brown	98.4	98.8
SS - driven 1 ft, 108 ft to 109 ft, recovered 1 ft		
Rock fragments, spoon hit refusal at 109 ft	108	109
Refusal		109
WGW 351		
Topsoil	0	2
Sand, fine to medium; trace granule gravel; brown	2	9
Sand, medium to coarse; trace very coarse sand; brown	9	14
Sand, fine to medium; trace coarse; brown	14	24
Sand, fine to medium; brown	24	29
Sand, fine to medium; trace coarse; brown	29	34
Sand, fine to medium; brown	34	49
Sand, very fine to fine; brown	49	60
Sand, very fine to fine; brown; diminishing returns	60	69
No returns	69	79
SS - driven 2 ft, 79 ft to 81 ft, recovered 1.0 ft		
Sand, medium to very coarse and granule to pebble gravel; brown	79	80
SS - driven 2 ft, 89 ft to 91 ft, recovered 1 ft		
Sand, coarse to very coarse and granule gravel; little medium sand; brown	89	90
SS - driven 2 ft, 99 ft to 101 ft, recovered 1.7 ft		
Sand, medium to coarse; little very coarse; brown; cobble stuck in end of spoon	99	100.7
SS - driven 2 ft, 109 ft to 111 ft, recovered 0.8 ft		
Sand, medium to coarse; brown	110.2	110.6
Sand, very fine to fine; brown	110.6	111
Bottom of hole		111
WGW 352		
Sand, fine to very coarse; trace silt and pebble gravel; light brown	0	10
Sand, fine to very coarse; some pebble gravel; light brown	10	16
Sand, fine to medium; trace coarse; light brown	16	40
Sand, fine to very coarse; trace silt and pebble gravel; light brown	40	47

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 352—*Continued*		
Sand, very fine to medium; some coarse sand; trace silt and gravel	49	65
Sand, fine to coarse, trace silt and gravel light brown	65	79
SS - driven 2 ft, 79 ft to 81 ft, recovered 2 ft		
Sand, fine to coarse; trace silt and gravel; light brown	79	81
SS - driven 2 ft, 99 ft to 101 ft, recovered 2 ft		
Sand, fine to medium; trace coarse sand	99	100
Sand, fine to medium	100	101
SS - driven 2 ft, 109 ft to 111 ft, recovered 1.7 ft		
Sand, very fine to medium	109	109.7
Sand, very fine to fine	109.7	110.7
Bottom of hole, augers sand locking		117
WGW 353		
Sand, very fine and silt; light gray brown	0	7
Sand, very fine; some silt and gravel	14	22
Sand, coarse to very coarse and gravel; some medium sand; trace silt	22	30
Sand, medium to very coarse; some gravel; medium brown	40	48
Sand, very fine to medium; trace silt	48	60
Sand, very fine to medium; some silt	60	80
SS - driven 2 ft, 80 ft to 82 ft, recovered 2 ft		
Sand, fine to medium; trace coarse to very coarse sand and gravel; light brown	80	82
SS - driven 2 ft, 86 ft to 88 ft, recovered 1.5 ft		
Sand, fine to coarse; trace gravel	86	86.6
Sand, fine to medium; trace coarse sand	86.6	87.5
Bottom of hole, augers sand locking		87.4
WGW 354		
Sand, fine to coarse and gravel	0	2
Sand, very fine and silt; grayish brown	2	37
Sand, fine to very coarse and granule gravel; trace cobble gravel; brown	37	40
Sand, coarse to very coarse and granule gravel; little fine to medium sand; brown	40	50
Sand, fine to medium; little very coarse sand; brown	50	58.6
Sand, fine to medium; trace coarse to very coarse sand; brown	58.6	68
Sand, very coarse and granule gravel; some fine to medium sand; trace pebble to cobble gravel; brown	68	77.7
Sand, medium to very coarse; little fine sand and granule gravel; brown	77.7	87.7
WGW 354—*Continued*		
Sand, medium to coarse and granule gravel; little fine sand; trace pebble gravel; brown	87.7	97.2
Sand, medium to very coarse; trace granule to pebble gravel; brown	97.2	106
Sand, medium to coarse; trace pebble gravel; brown	106	111
Sand, medium to granule gravel; brown	111	116
Sand, fine to very coarse; trace granule gravel; brown	116	119
Sand, very fine to fine; brown	119	125
Sand, fine to medium and very coarse sand; trace very fine sand and pebble gravel; brown	125	131
Sand, medium to coarse; trace fine sand; brown	131	132
Sand, medium to very coarse; trace fine sand and granule gravel; brown	132	136
Sand, coarse to very coarse; some granule gravel; trace fine sand; brown	136	141
Sand, medium to coarse; little fine sand and very coarse sand; trace pebble gravel; grayish brown	141	146
Bottom of hole		146
WGW 355		
Sand, very fine to fine; grayish brown	0	8
Sand, very fine to medium; little coarse sand; grayish brown	8	18
Sand, very coarse; with fine to coarse sand; grayish brown	18	24
Sand, very coarse and granule gravel; grayish brown	24	26
Sand, fine to coarse; some very coarse sand and granule gravel; brown	26	29
Sand, coarse to very coarse; little medium sand and granulmedium browne gravel; trace fine sand; light	29	40
Sand, medium to coarse; some very coarse sand; little fine sand; trace cobble gravel; brown	40	50
Sand, medium to coarse; some very coarse sand; little to some fine sand; trace cobble and pebble gravel; light brown	50	61
Sand, coarse to very coarse; some granular gravel and fine to medium sand; trace pea to cobble gravel; light brown	61	70
Sand, coarse to very coarse; with granule gravel; some pea gravel; little medium sand; trace fine sand; light brown	70	82

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 355—*Continued*		
Sand, coarse to very coarse; some granule gravel; little cobble gravel and medium to fine sand; light medium brown	82	92
Sand, medium to very coarse; some fine sand and granule gravel; light brown	92	100
Sand, very coarse and granule gravel; some pea and cobble gravel; trace silt; light gray brown	100	102
Sand, coarse to very coarse and granule gravel; some medium sand; little fine sand and pea gravel; trace silt; light brown	102	104
Sand, coarse to very coarse and granule gravel; some medium to fine sand; little pea and cobble gravel, light brown	104	109
Sand, coarse to very coarse and granule gravel; little pea and cobble gravel; trace fine sand and silt; light brown	109	114
Sand, coarse to very coarse; some granule, pea, cobble gravel; some fine to medium sand; trace silt; light brown	114	118
Sand, coarse to very coarse; some granule, pea, pebble, and cobble gravel; trace fine to medium sand and silt; light brown	118	121
Sand, medium to very coarse and granule gravel; some pea and cobble gravel; little fine sand; trace silt; light brown	121	125
Sand, very coarse and granule gravel; some pea and cobble gravel; little fine to medium sand; trace silt; light gray brown	125	126
Sand, very coarse; with granule gravel and coarse sand; some pea and cobble gravel; trace fine to medium sand. light brown	126	129
Gravel, granule and very coarse sand; some pebble gravel; little medium sand; trace fine sand; light brown	131	132
Refusal		132
WGW 356		
Gravel, pebble; medium brown	7	8
Sand, fine to very coarse; trace granule gravel; medium brown	8	10
Sand, fine to medium; light brown	10	17
Sand, very fine to fine; light grayish brown	17	24
Sand, very fine to fine; brown	24	26
Sand, very fine to fine; trace clay; grayish brown	26	28
Silt and clay; trace very coarse sand and pebble gravel; gray	28	38
Sand, very fine to coarse and silt; little pebble gravel; gray brown	38	49
WGW 356—*Continued*		
Sand, fine to very coarse; some granule and pebble gravel; medium brown	49	54
Sand, fine to coarse; little silt; trace granule gravel; medium brown	54	59
Sand, fine to very coarse; some granule, pebble, and cobble gravel	59	65
No returns	65	69
Sand, medium to very coarse and granule gravel; some pea and cobble gravel: medium brown	69	78
Sand, fine to coarse; light brown	78	80
Sand, fine to medium; some coarse to very coarse sand; light brown	80	90
Sand, fine to coarse; some very coarse sand to granule gravel; trace pea and cobble gravel; medium brown	90	96
Sand, medium to very coarse; light brown	96	100
Sand, medium to very coarse; little fine sand; light brown	100	110
Bottom of hole		111
WGW 357		
Sand, very fine and silt; trace very coarse sand, pebble gravel, and clay; grayish brown	0	21
Silt and clay; gray	21	28
Sand, very coarse and granule gravel; some very fine sand and silt; gray	28	35
Sand, coarse to very coarse and granule gravel; trace silt and very fine sand; brown	35	42
Sand, medium to coarse; little fine sand; trace very coarse sand and granule gravel; brown	42	49
Sand, fine to medium; little very coarse sand and granule gravel; brown	49	60.3
Refusal		60.3
WGW 358		
Sand, medium to very coarse; little granule gravel; trace pebble gravel and fine sand; brown	0	21
Sand, very coarse and granule gravel; little fine to medium sand; trace pebble gravel; brown	21	28
Gravel; trace fine to very coarse sand; brown	28	35
Sand, coarse to very coarse and granule gravel; little fine to medium sand; trace pebble gravel; brown gray	35	42

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 358—*Continued*		
Sand, very coarse and granule gravel; trace fine sand; brown	42	49
Sand, coarse to very coarse; little granule gravel and fine sand; brown	49	56
Gravel, granule and very coarse sand; trace fine sand, coarse sand, and pebble gravel; brown	56	63
Gravel; little fine to coarse sand; brown	63	67.7
Bottom of hole, pushing cobble		67.7
WGW 359		
Sand, very fine to very coarse and granule gravel; reddish brown	0	21
Sand, very fine to fine and very coarse sand to granule gravel; little cobble gravel; sub-angular to sub-rounded; brown	21	28
Gravel, granule to cobble; little very fine to fine sand and very coarse sand; brown	28	35
Sand, fine to medium; trace silt and very coarse sand; grayish brown	35	42
Sand, very fine to very coarse; brown	42	47
Refusal, probable bedrock		47
WGW 360		
Sand, fine to medium; some coarse sand; light brown	0	21
Sand, fine; some medium sand, trace coarse sand; light brown	21	28
Sand, medium to coarse; little fine and very coarse sand; light brown	28	35
Sand, medium to very coarse; little granular gravel; trace fine sand; light brown	35	42
Sand, fine to coarse; some very coarse sand; little very fine sand; light brown	42	49
Sand, medium to very coarse, some granular gravel; little fine sand; light brown	49	57
Sand, medium to very coarse and granule gravel; trace fine sand; light brown	57	64
Refusal, probable bedrock		64
WGW 361		
Sand, very fine to very coarse and silt; little granule gravel; light brown	0	21
Sand, very fine to coarse and silt; some granule gravel; light brown	21	25
Refusal, probable boulders		25
WGW 362		
Sand, very fine to coarse; some granule gravel and silt; light brown	0	18
Sand, very fine to coarse and silt; light gray	18	20.5
Refusal, probable till		20.5
WGW 363		
Sand, fine to coarse; some silt; trace granule gravel; light gray	0	14
Sand, very fine to fine; some silt; light gray	14	21
Sand, very fine; trace silt; light gray	21	28
Silt and very fine sand; light gray	28	35
Silt and very fine sand; trace clay; light gray	35	56
Sand, very fine and silt; light gray	56	63
Sand, medium to very coarse; some granule gravel; little fine sand; trace silt; brown	63	70
Sand, medium to very coarse; little granule gravel; trace fine sand and silt; brown	70	77
Sand, fine to medium; some coarse sand; little very coarse sand; trace granule to ebble gravel and very fine sand; brown	77	84.5
Sand, fine to coarse; trace very fine sand, very coarse sand, and granule gravel; brown	84.5	92
Sand, medium to very coarse; trace fine sand and granule gravel; brown	92	99
Bottom of hole		99
WGW 364		
Sand, very fine to very coarse; some silt; trace gravel; light gray	0	21
Sand, very fine and silt; light gray	21	28
Sand, very fine; little to trace silt; light gray	28	35
Sand, very fine to fine; little silt, trace medium to coarse sand; light gray	35	42
Sand, fine to very coarse; some very fine sand; trace silt; light gray	42	49
Sand, fine to very coarse; some granule gravel; trace very fine sand; light gray brown	49	57
Sand, medium to very coarse; some fine sand, trace granule gravel; light gray brown	57	60
Bottom of hole		60
WGW 365		
Sand, very fine to fine; trace silt; light brown gray	0	19
Sand, very fine to medium; some coarse to very coarse sand; trace silt; light brown	19	28

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 365—*Continued*		
Sand, very fine to medium; some coarse to very coarse sand; trace granule gravel and silt; light brown	28	35
Sand, fine to coarse; some very fine and very coarse sand; trace granule gravel; light brown	35	42
Sand, fine to very coarse; some granule gravel; little very fine sand; light brown	42	46.7
Refusal		46.7
WGW 366		
Sand, medium to coarse and very fine to very coarse sand; trace silt and granular gravel; light brown	0	21
Sand, very fine to fine and medium sand; little coarse to very coarse sand, trace silt and granule gravel; light gray	21	28
Sand, fine to medium; some coarse to very coarse; trace very fine sand; light brown	35	42
Sand, fine to medium; little coarse to very coarse; trace granule gravel and very fine sand; light brown	42	50
Sand, very fine to fine; trace medium to very coarse sand and granule gravel; light brown	50	57
Silt and very fine sand; dark gray	57	64
Sand, very fine and silt; gray	64	71
Silt; dark gray	71	78
No returns	78	82.5
Sand, very fine and silt; little very coarse sand to angular granule gravel; dark gray	82.5	84.5
Silt and clay; dark gray	84.5	92
Sand, very fine; some silt; light brown	92	99
Sand, medium to coarse; trace fine sand and silt; light brown	99	106
Sand, medium to very coarse; little fine sand; trace granular gravel; light brown	106	113
Sand, medium to very coarse; trace to little fine sand; trace granule gravel; light brown	113	125
Refusal, probable bedrock		125
WGW 367		
Sand, fine to very coarse; trace silt and very fine sand; light brown	0	21
Sand, very fine to medium; trace silt; light brown	21	28
Sand, very fine and silt; light gray	28	35
Silt; some very fine sand; light gray	35	42.5
WGW 367—*Continued*		
Sand, very fine; some silt; light gray	42.5	50
Sand, very fine to fine; trace silt; light brown	50	57
Sand, medium to very coarse; some fine sand; light brown	57	64
Sand, medium to very coarse; little fine sand; trace very fine sand and silt; light brown	64	70
Refusal, probable bedrock		70
WGW 368		
Sand, fine to coarse; some very coarse and very fine sand and silt; light gray	0	21
Sand, very fine; trace silt; light gray	21	28
Sand, very fine; little silt; light gray	28	35
Silt; light gray	35	42
Silt; trace clay; light gray	42	49
Silt; trace clay; dark gray	49	56
Silt; trace very fine sand; dark gray	56	63.5
Sand, very fine to fine; trace very coarse sand; gray	63.5	70.5
Sand, fine to medium; brown	70.5	76
Refusal		76
WGW 369		
Sand, fine to very coarse; little silt and granule to cobble gravel; trace clay; grayish brown	0	21
Silt and very fine sand; trace very coarse sand and granule gravel and clay; grayish brown	21	28
Silt and clay; gray	28	35
Silt and very fine sand; grayish brown	35	42
Sand, very fine to fine; little silt; trace very coarse sand and granule gravel; grayish brown	42	49.5
Sand, coarse to very coarse; little granule gravel; trace fine sand; reddish brown	49.5	56.9
Refusal		56.9
WGW 370		
Sand, coarse to very coarse and granule to pebble gravel; trace fine sand and silt; brown	0	21
Sand, very coarse and granule gravel; little pebble gravel; trace fine sand and silt; brown	21	28
Refusal, probable boulder		31.8

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 371		
Sand, fine to coarse; trace silt; light brown	0	21
Sand, fine to very coarse; some granule gravel; trace very fine sand; light brown	21	28
Sand, medium to very coarse; some fine sand and granule gravel; light brown	28	35
Sand, fine to very coarse and granule gravel; light brown	35	42
Sand, medium to very coarse; some granule gravel; light brown	42	49
Sand, medium to very coarse; some granule gravel; little fine sand; light brown	49	57
Sand, fine to very coarse; some granule gravel; light brown	57	63.9
Bottom of hole		63.9
WGW 372		
Sand, fine to very coarse; some silt and granule gravel; light gray	0	21
Sand, fine to very coarse; some granule gravel; light brown	21	28
Sand, medium to very coarse; some granule gravel; trace fine sand; rock shards; light brown	35	38.5
Refusal		38.5
WGW 373		
Gravel, granule and very coarse sand; medium brown	3	5
Silt and very fine sand; light gray	5	21
Sand, very fine to medium and silt; trace to little granule gravel; medium gray	21	28
Sand, very fine and silt; trace to little granule gravel; medium gray	28	34
Sand, coarse to very coarse; trace granular gravel	34	35
Sand, very fine to medium; some silt and very coarse sand; trace granule gravel; medium gray	35	42
Sand, very fine to fine; some silt; medium to dark gray	42	57
Sand, very fine and silt; light gray	57	78
Sand, very fine to very coarse; trace granular gravel; light brown	78	84
Refusal		84
WGW 374		
Sand, fine to medium and silt; trace pebble gravel; light grayish brown	0	5
WGW 374—*Continued*		
Sand, fine to medium; trace very fine sand; light gray brown	5	10
Sand, medium to very coarse; trace fine sand and granule gravel; brown	10	15
Sand very fine to fine; trace medium to coarse sand; brown gray	15	20
Sand, fine to medium; light brown	20	28
Sand, coarse to very coarse; some granule and pebble gravel; little fine to medium sand; trace very fine sand; medium brown	28	35
Sand, fine to very coarse; trace very fine sand and granule gravel; medium brown	35	40
Sand, very fine to very coarse; some silt; trace granule gravel; medium brown	40	50
Sand, fine to medium; trace very fine and coarse sand; medium brown	50	55
Sand, very fine to fine; some medium sand; trace silt; medium brown	55	60
Sand, very fine to fine; trace medium sand; and silt; medium brown	60	70
Sand, medium to very coarse; some granule gravel; trace fine sand; brown	70	80
Sand, medium to very coarse; some granule gravel; trace pebble gravel; brown	80	85
Sand, fine to very coarse; some granule gravel; trace pebble gravel; medium brown	85	90
Sand, medium to very coarse; little granule gravel; medium brown	90	95
Sand, coarse to very coarse and granule gravel; some pebble gravel; trace fine to medium sand; medium brown	95	100
Sand, very fine to fine; some medium sand; trace coarse to very coarse sand; medium brown	100	105
Sand, very fine to fine; light gray brown	105	115
Sand, very fine to fine; trace silt; light gray brown	115	140
Sand, very fine to fine; some silt; light gray brown	140	150
Sand, medium to very coarse; some granule gravel, trace fine sand and pebble gravel; medium brown	152	155
Gravel, pebble; some granular gravel	155	160
Gravel, granule; some pea gravel; trace medium to coarse sand; medium brown	160	165
Gravel, pebble and cobble; some granule gravel; trace medium to very coarse sand; medium brown	165	170

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 374—*Continued*		
Gravel, granule and pebble; some very coarse sand; trace medium to coarse sand; medium brown	170	175
Sand, very coarse and granule gravel; some very coarse sand; trace medium to coarse sand; medium brown	175	182
Rock shards; angular; light gray, drilled	182	184.5
Refusal, probable bedrock		184.5
WGW 375		
Sand, fine to coarse; reddish brown	0	5
Sand, very fine to fine; light brown	5	20
Sand, very fine to medium; trace coarse sand; light gray brown	20	30
Sand, fine to medium; little coarse; trace very fine; light brown	30	40
Sand, very fine to medium; little coarse sand; trace silt; light brown	40	50
Sand, fine to medium; trace very fine and coarse sand and silt; gray brown	50	60
Sand, very fine to fine; some medium sand; trace coarse sand; gray brown	60	70
Sand, very fine to fine; trace medium sand; light gray brown	70	86
Sand, fine to very coarse; trace very fine sand and granule gravel; medium dark brown	86	96
Sand, fine; little very fine sand; trace silt; medium gray brown	96	100
Sand, very fine; trace silt and fine sand; light gray	100	10
Sand, fine; trace very fine sand; light gray	110	120
Sand, very fine to fine; trace medium sand; light gray brown	120	130
Sand, very fine to fine; trace coarse sand and granule gravel; light gray brown	130	140
Sand, very fine to coarse; trace very coarse sand and granule gravel; light gray brown	140	150
Sand, fine to very coarse and granule gravel; some very fine sand and silt; medium brown	150	155
Sand, very coarse and granule gravel; some medium to coarse sand; little very fine to fine sand; trace silt; medium brown	155	160
Sand, very coarse and granule gravel; some medium to coarse sand; trace fine sand; medium brown	160	170
Sand, very coarse and granule gravel; some medium to coarse sand; medium brown	170	175
WGW 375—*Continued*		
Sand, very coarse and granule gravel; some medium to coarse sand and pebble gravel; trace fine sand; medium brown	175	180
Gravel, granule; with very coarse sand; some pebble gravel; trace medium to coarse sand; medium brown	180	181.5
Bottom of hole		181.5
WGW 376		
Sand, very fine to coarse, little very coarse sand and granule gravel; light gray	0	20
Sand, very fine to medium; some coarse sand; trace very coarse sand and granule gravel; light gray	20	30
Sand, very fine to medium; some silt; trace coarse to very coarse sand; light gray	30	40
Sand, very fine to very coarse; little silt and granule gravel; light gray brown	40	50
Sand, fine to very coarse; some granule gravel; trace very fine sand; light brown	50	60
Sand, coarse to very coarse; some medium sand; little fine sand; medium brown	60	70
Sand, fine to medium; little very fine sand; trace granule gravel; light gray brown	70	80
Sand, fine to medium; little very coarse sand; trace very fine sand; light brown	80	90
Sand, very fine to fine; trace medium sand; light brown	90	130
Sand, very fine; little granule and pebble gravel; light brown	130	137
Sand, very fine to very coarse; little granule gravel; medium brown	137	140
Sand, very fine; trace silt; medium brown	140	153
Boulder, solid rock, drilled through it	153	159
Sand, medium to very coarse and granule gravel; some fine sand; trace very fine sand; medium brown	159	165
Sand, coarse to very coarse and granule gravel; some fine to medium sand; trace very fine sand; medium brown	165	170
Gravel, granule; with coarse to very coarse sand; medium sand; light brown	170	175
Gravel, granule; with medium to very coarse sand; medium to light brown	175	180
Boulder, solid rock, drilled through it	180	185.7
No returns	185.7	187.7
Bottom of hole		187.7

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 377		
Sand, fine to medium; some coarse to very coarse sand; little very fine sand; trace silt; light brown	0	10
Sand, very fine to fine; some pea gravel; little coarse to very coarse sand; trace medium sand and silt; light brown	10	20
Sand, very fine to very coarse; little granule gravel; light brown	20	30
Sand, very fine to fine; light gray brown; interbedded with medium to very coarse sand; and granule and pea gravel; light brown	30	40
Sand, very fine to fine; light gray	40	50
Sand, very fine to medium; little silt; trace coarse to very coarse sand; medium gray brown	50	60
Sand, very fine to medium; light gray	60	70
Sand, very fine to medium; trace coarse to very coarse sand; light gray brown	70	80
Sand, very fine to medium; little coarse to very coarse sand; trace silt; light gray brown	80	90
Sand, medium to very coarse; little fine sand; trace very fine sand; light brown	90	100
Sand, very fine to fine; trace silt; light brown	100	110
Sand, fine to medium; trace pebble gravel; light brown	110	120
Sand, very fine to fine; light brown	120	130
Sand, very fine to fine; trace silt; light brown	130	140
Sand, very fine; some silt; light brown	140	150
Sand, very fine to very coarse and granule gravel; medium brown	150	155
Sand, very coarse and granule gravel; little medium to coarse sand; medium brown	155	160
Sand, medium to very coarse and granule gravel; little fine to medium sand; medium brown	160	165
Sand, medium to very coarse; trace granule gravel; medium brown	165	170
Sand, coarse to very coarse; some granule gravel; trace fine to medium sand; medium brown	170	178
Boulder, drilled through it	178	179.5
Sand, coarse to very coarse and granular gravel; trace fine to medium sand	179.5	180.5
Boulde, drilled through it	180.5	187
Bottom of hole		187
WGW 410		
Sand, very fine to fine; little granule gravel; brown	0	5
Sand, fine to medium; little granule to pebble gravel; brown	5	10
Sand, medium to very coarse and granule gravel to pebble gravel; brown	10	15
Gravel, pebble; some granule gravel; little medium to coarse sand; brown	15	20
Sand, medium to coarse; little very coarse sand and granule gravel; brown	20	25
Sand, medium to coarse; little very coarse sand and granule gravel; trace pebble gravel; brown	25	30
Sand, fine to medium; some very coarse sand and granule gravel; little very fine sand and silt; brown	30	35
Sand, fine to medium; some very coarse sand and granule to pebble gravel; brown	35	40
Sand, medium to very coarse and granule gravel; brown	40	45
Sand, medium to coarse; little very coarse and pebble gravel; trace fine sand; brown	45	50
Sand, very coarse and granule gravel; little medium to coarse sand and pebble gravel; brown	50	55
Gravel, granule to pebble; some very coarse sand; trace fine to medium sand; brown	55	60
Sand, very coarse and granule to pebble gravel; some medium to coarse sand; trace fine sand; brown	60	70
Sand, coarse to very coarse and granule to cobble gravel; some medium sand; little fine sand; brown	70	75
Sand, very coarse; with pebble gravel; some medium to coarse sand; little cobble gravel; trace fine sand; brown	75	80
Sand, medium to very coarse; with pebble gravel; rock fragments from drilling; dark brown	80	81
Bottom of hole		81
WGW 411		
Sand, very fine to fine and silt; brown	0	5
Sand, very fine and silt; grayish brown	5	15
Sand, very fine to fine and silt; trace granule gravel; brown	15	20
Sand, medium to coarse; little very coarse sand and granule gravel; trace pebble gravel; brown	20	25

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 411—*Continued*		
Sand, very coarse and granule gravel; little coarse sand and pebble gravel; trace medium sand; brown	25	35
Sand, medium to coarse; some very coarse sand; little granule gravel; trace pebble gravel; brown	35	40
Sand, medium to very coarse and granule gravel; brown	40	45
Sand, medium to coarse; some fine sand; little granule gravel; trace pebble gravel; brown	45	50
Sand, coarse to very coarse and granule gravel; little pebble gravel; trace medium sand; brown	50	55
Sand, coarse to very coarse and granule gravel	55	60
Sand, fine to medium; little coarse sand; trace granule gravel; brown	60	65
Sand, fine to medium; some pebble gravel; little very coarse sand and granule gravel; brown	65	70
Sand, fine to pebble gravel; brown	70	75
Sand, coarse to very coarse and granule to pebble gravel; trace medium sand and cobble gravel; grayish brown	75	77.5
Refusal, probable boulder		77.5
WGW 412		
Sand, very fine to fine; trace very coarse sand; reddish brown	0	5
Sand, fine to medium; little coarse sand; brown	5	10
Sand, very fine to fine; grayish brown	10	15
Sand, very fine and silt; grayish brown	15	20
Silt; gray	20	30
Sand, very fine to fine; little silt; grayish brown	30	35
Sand, fine to medium; brown	35	40
Sand, very fine to fine; brown	40	45
Sand, fine to medium; brown	45	50
Sand, medium to coarse; little fine sand; trace very coarse sand; brown	50	60
Sand, medium to coarse; some very coarse sand; trace fine sand; brown	60	65
Sand, medium to very coarse; little granule gravel, trace fine sand; brown	65	70
Sand, coarse to granule gravel; little medium sand and pebble gravel; brown	70	75
Bottom of hole		76
WGW 413		
Sand, fine to medium; trace granule gravel; brown	0	5
Sand, medium to coarse; little very coarse sand; brown	5	10
Sand, very fine and silt; grayish brown	10	15
Silt; grayish brown	15	20
Sand, very fine and silt; grayish brown	20	25
Sand, fine to medium; some coarse sand; brown	25	30
Sand, medium to coarse; some very coarse sand; little granule gravel; trace pebble gravel; brown	30	35
Sand, fine to coarse; brown	35	40
Sand, medium to coarse; some fine sand; trace very coarse sand; brown	40	45
Sand, fine to medium; little very coarse sand; trace granule gravel; brown	45	50
Sand, very fine to fine; little medium sand; trace granule gravel; brown	50	60
Sand, very fine to fine; some very coarse sand and granule gravel; brown	60	65
Sand, very fine to fine; little medium sand; brown	65	70
Sand, very fine to fine; some very coarse sand to granule gravel; brown	70	75
Sand, very coarse and granule gravel; brown	75	76.5
Bottom of hole		76.5
WGW 414		
Sand, fine to medium; little coarse sand; reddish brown	0	5
Sand, fine to coarse; little granule gravel; brown	5	10
Sand, coarse to very coarse and granule gravel; trace pebble gravel; brown	10	15
Sand, medium to very coarse and granule gravel; trace fine sand and pebble gravel; brown	15	20
Sand, very coarse to granule gravel; brown	20	25
Gravel, granule to pebble; little very coarse sand; trace cobble gravel; brown	25	30
Gravel, granule to pebble; little medium to coarse sand; brown	30	35
Sand, coarse to very coarse and granule gravel; little pebble gravel; trace cobble gravel; brown	35	40
Sand, medium to coarse; little very coarse sand; trace granule to pebble gravel; brown	40	45

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 414—*Continued*		
Sand, medium to coarse; trace very coarse sand; brown	45	50
Sand, fine to coarse; trace very coarse sand and granule to pebble gravel; brown	50	55
Sand, fine to medium; trace granule gravel; brown	55	60
Sand, very fine to medium; some granule to pebble gravel; trace cobble gravel; brown	60	65
Sand, fine to medium and granule to pebble gravel; some cobble gravel; brown	65	67
Bottom of hole		67
WGW 415		
Sand, very fine to medium; reddish brown to brown	0	5
Sand, medium to coarse; trace granule to pebble gravel; brown	5	10
Sand, fine to medium; trace granule gravel; brown	10	15
Sand, coarse to very coarse and granule gravel; little medium sand; trace pebble gravel; brown	15	20
Sand, coarse to very coarse; trace granule gravel; brown	20	25
Sand, very coarse and granule gravel; little coarse sand and pebble gravel; brown	25	30
Sand, medium to very coarse and granule gravel; trace fine sand and pebble gravel; brown	30	35
Gravel, granule; some very coarse sand; little fine to medium sand; trace pebble gravel; brown	35	40
Sand, fine to coarse; trace pebble gravel; brown	40	45
Sand, fine to medium; trace granule gravel; brown	45	50
Sand, very fine to fine and silt; little medium sand; brown	50	55
Sand, fine to medium; brown	55	60
Sand, medium; some fine sand; trace granule gravel; brown	60	65
Sand, fine to medium; trace granule gravel; brown	65	70
Sand, fine to very coarse and granule gravel; trace pebble gravel; brown	70	75
Gravel, granule to pebble; little very coarse sand; brown	75	80
Gravel, granule; some very coarse sand and pebble gravel; trace coarse sand; brown	80	83
WGW 415—*Continued*		
Rock, angular fragments from drilling	83	86
Refusal, probable bedrock		86
WGW 416		
Sand, fine; some medium sand; trace very fine sand; reddish brown	0	5
Sand, fine to coarse; trace granule gravel; light brown	5	10
Sand, fine to coarse; trace granule gravel; light brown	10	15
Sand, fine to medium; trace coarse sand and granule gravel; light brown	15	20
Sand, medium to very coarse; trace fine sand and granule gravel; light gray brown	20	25
Sand, very fine to fine; light gray brown	25	30
Sand, fine to coarse; trace very coarse sand and granule gravel; light gray brown	30	35
Sand, very fine to fine; medium gray brown	35	40
Sand, very fine to fine; trace silt; light brown	40	45
Sand, very fine to medium; trace coarse to very coarse sand and silt; light brown	45	50
Sand, very fine; trace silt; light brown	50	55
Sand, very fine to medium; trace coarse; medium brown	55	60
Sand, very fine to medium; little granule gravel; medium brown	60	64
Rock chips from drilling	64	74
Refusal, probable bedrock		74
WGW 417		
Sand, very fine to fine; trace granule gravel; reddish brown	0	5
Sand, very coarse and granule gravel; little coarse sand; reddish brown	5	10
Gravel, pebble to cobble; some granule gravel; trace medium sand; brown	10	15
Sand, coarse to very coarse; trace granule to pebble gravel; brown	15	20
Sand, coarse to very coarse; brown	20	25
Gravel, granule to pebble; little cobble gravel and coarse to very coarse sand; trace fine sand; brown	25	35
Gravel, granule; some pebble gravel; little very coarse sand; trace coarse sand; brown	35	40
Gravel, granule to pebble; some very coarse sand; little coarse sand; brown	40	45
Gravel, pebble; some very coarse sand and granule gravel; little coarse sand; trace medium sand; brown	45	50

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 417—*Continued*		
Gravel, granule to pebble; some very coarse sand; trace fine to medium sand; brown	50	55
Sand, coarse to very coarse; little medium sand and granule gravel; reddish brown	55	60
Sand, coarse; some medium and very coarse sand; reddish brown	60	65
Sand, very fine to medium; little coarse sand; trace very coarse sand; reddish brown	65	70
Sand, coarse to very coarse; little medium sand and granule gravel; trace fine sand; reddish brown	70	75
Refusal, probable boulder		77
WGW418		
Sand, fine to medium; brown	0	5
Sand, medium to coarse; little fine sand; trace very coarse sand and granule gravel; brown	5	10
Sand, fine to medium; trace coarse sand and granule gravel; grayish brown	10	15
Sand, medium to very coarse and granule gravel; little pebble gravel; brown	15	20
Sand, fine to coarse; trace very coarse sand and granule gravel; brown	20	25
Sand, fine to medium; little coarse sand; trace very coarse sand and granule gravel; brown	25	30
Sand, medium to coarse; trace very coarse sand and granule gravel; brown	30	35
Sand, coarse to very coarse, and granule gravel; little medium sand; trace pebble gravel; brown	35	40
Sand, medium to very coarse; some granule gravel; trace pebble gravel; brown	40	45
Sand, very coarse to granule gravel; little fine sand and pebble gravel; brown	45	50
Gravel, granule and very coarse sand; little pebble gravel; trace fine sand; brown	50	55
Gravel, granule to pebble; some very coarse sand; trace medium sand; brown	55	60
Sand, medium to very coarse; trace fine sand, granule gravel, and rock fragments; brown	60	65
Gravel, granule to pebble and coarse to very coarse sand; brown	65	70
Gravel, granule to pebble and very coarse sand; trace medium to coarse sand and cobble gravel; brown	70	77
Refusal, probable bedrock		77
WGW 419		
Sand, very fine to medium; trace granule and pebble gravel; dark brown	0	5
Sand, fine to medium; little very fine sand; trace granule and pebble gravel; brown	5	10
Sand, coarse to very coarse and granule gravel; little pebble gravel; trace medium sand; brown	10	15
Sand, medium to coarse; little pebble gravel; trace fine sand and granule gravel; brown	15	20
Sand, fine to medium; trace coarse sand and granule gravel; brown	20	25
Sand, very coarse and granule gravel; little pebble gravel; trace fine sand; brown	25	30
Gravel, granule to pebble; some very coarse sand; brown	30	35
Sand, very coarse and granule gravel; little pebble gravel; trace coarse sand; brown	35	45
Gravel, pebble; some granule gravel; little very coarse sand; trace cobble gravel; brown	45	50
Gravel, pebble; some granule gravel; little medium sand; trace fine sand and cobble gravel; brown	50	55
Sand, coarse to very coarse and granule to pebble gravel; trace medium sand; brown	55	60
Sand, medium to coarse and granule to pebble gravel; brown	60	65
Sand, coarse to very coarse and granule gravel; little pebble gravel; trace fine sand; brown	65	70
Sand, very coarse and granule gravel; little coarse sand; trace pebble gravel; brown	70	75
Casing would not advance, drilled out end	75	84
Bottom of hole, probable not bedrock		84
WGW 420		
Sand, fine to medium; trace granule gravel; dark brown	0	5
Sand, medium to coarse; little granule gravel; red	5	10
Sand, coarse to very coarse and granule gravel; little pebble gravel	10	15
Sand, medium to very coarse and granule gravel; trace fine sand and pebble gravel; brown	15	20
Sand, fine to medium; little coarse sand; trace granule gravel; brown	20	25
Sand, fine to medium; trace granule gravel; brown	25	30

Table 16. Lithologic logs of selected wells and test holes in the Big–Mishnock stream-aquifer system, central Rhode Island —*Continued*

Description	Depth (ft) From	Depth (ft) To
WGW 420—*Continued*		
Gravel, granule; some very coarse sand and pebble gravel; little fine sand; brown	30	35
Gravel, granule to pebble; little medium sand; trace fine sand; brown	35	40
Gravel, granule to pebble; some very coarse sand; little medium sand; trace fine sand; brown	40	45
Gravel, granule to pebble; some very coarse sand; trace coarse sand; brown	45	50
Gravel, granule to pebble; some medium to coarse sand; trace fine sand; brown	50	55
Sand, medium to coarse and granule gravel; little pebble gravel; trace fine sand; brown	55	60
Gravel, granule to pebble; trace fine to medium sand; brown	60	65
Sand, coarse to very coarse and granule to pebble gravel; trace medium sand; brown	65	70
Sand, coarse to very coarse; little medium sand and granule gravel; trace pebble gravel; brown	70	75
Sand, coarse to very coarse and granule to pebble gravel; trace medium sand; brown	75	80
Sand, medium to coarse and granule to pebble gravel; little fine sand; trace very coarse sand; brown	80	87
Refusal, probable bedrock		87
WGW 421		
Silt; gray	0	5
Sand, medium to coarse; little silt; trace very coarse sand; grayish brown	5	10
Sand, coarse to very coarse; some granule gravel; trace medium sand; light brown	10	15
Sand, very coarse and granule gravel; little fine to medium sand; trace coarse sand and pebble gravel; brown	15	20
Sand. fine to medium; little fine sand; trace silt; brown	20	25
Sand, fine to medium; trace pebble gravel; brown	25	30
Gravel, granule to pebble; some very coarse sand; trace fine to medium sand; brown	30	35
Gravel, granule to pebble; little fine to medium sand; trace cobble gravel; brown	35	40
Gravel, granule to pebble; some very coarse sand; trace fine sand; brown	40	45
WGW 421—*Continued*		
Sand, medium to coarse; little granule gravel; trace fine sand and pebble gravel; brown	45	50
Gravel, granule to pebble; little very coarse sand; trace cobble gravel: brown	50	55
Gravel, granule to pebble; little very coarse sand; trace medium sand; brown	55	60
Gravel, pebble; some granule gravel; little fine to medium sand; brown	60	65
Gravel, pebble to cobble; some fine to medium sand; trace granule gravel; brown	65	70
Sand, coarse to very coarse and granule gravel; little medium sand and pebble gravel; trace fine sand; brown	70	75
Gravel, granule to pebble; little medium to coarse sand; brown	75	83
Gravel, granule to pebble; little medium to coarse sand; reddish brown	83	85
Bottom of hole		8
WGW 422		
Topsoil	0	1
Sand and gravel	1	13
Refusal, probable till		14.5
WGW 423		
Topsoil	0	1
Sand and gravel	1	12
Sand, very find and silt; trace clay	12	17
Sand, very coarse and gravel; angular	17	23
Refusal, probable till		23.7
WGW 424		
Topsoil	0	1
Sand and gravel	1	11
Sand, very fine and silt; trace clay	11	18
Refusal, probable till		22.5
WGW 425		
Topsoil	0	1
Sand and gravel	1	13
Sand, very fine and silt; trace clay	13	20
Sand, fine to very coarse; trace cobble gravel	20	27
Sand, fine to very coarse; trace silt and granule gravel	27	36
Refusal, probable till		37.3