Water Resources of Monroe County, New York, Water Years 1989-93, with Emphasis on Water Quality in the Irondequoit Creek Basin

Part 1. Water-Resources Data

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Prepared in cooperation with the
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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To Obtain
	Length	
inch (in.)	2.54	centimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
	Area	
square mile (mi^2)	2.59	square kilometer
acre	0.40483	hectare
	Flow	
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
inch per year (in/yr)	25.4	millimeter per year
million gallons per day (Mgal/d)	3.785	cubic meters per day
gallons per minute (gal/min)	0.06309	liter per second
gallons per second (gal/s)	0.0010515	liter per second
	Volume	
cubic feet (ft^3)	0.02832	cubic meters
	Temperature	
degrees Fahrenheit (˚F)	˚C = 5/9 (˚F-32)	degrees Celsius

Specific Conductance

microsiemens per centimeter at 25˚ Celsius (µS/cm)

Equivalent Concentration Terms

milligrams per liter (mg/L) ≈ parts per million
micrograms per liter (µg/L) = parts per billion

	Load	
Tons per day (tons/d)	907.1	Kilograms per day

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Water Resources of Monroe County, New York, Water Years 1989-93, with Emphasis on Water Quality in the Irondequoit Creek Basin
Part 1. Water-Resources Data

By Donald A. Sherwood

Abstract

Water quality in the 169-square-mile Irondequoit Creek basin, in eastern Monroe County, N.Y., has been documented for more than 100 years. In the past, sediment and contamination carried by Irondequoit Creek have contributed to the accelerated eutrophication of Irondequoit bay on Lake Ontario. During 1980-81, the U.S. Geological Survey and the Monroe County Environmental Health Laboratory collected streamflow and water-quality data in the Irondequoit Creek basin near Rochester, as part of the National Urban Runoff Program (NURP) study, and have continued to collect data at several sites in the basin and elsewhere in Monroe County to document changes in the concentrations of chemical constituents since the beginning of the NURP study. Data collected during 1984-88 are given in two companion reports; this third report presents data collected during 1989-93.

This report includes records of: (1) streamflow, and chemical quality of streams; (2) ground-water levels and quality of ground water; and (3) quantity and quality of precipitation in Monroe County, during water years 1989-93, by water year. Streamflow and (or) water-quality data were collected at 14 sites, four of which were discontinued during the 1989-93 period covered by this report. Ground-water levels were measured and water-samples collected at 15 wells. Precipitation-volume data were collected at four sites, and atmospheric-quality (wetfall, dustfall, and bulk deposition) data at three.

INTRODUCTION

Water quality in the 169-mi^2 Irondequoit Creek basin, in eastern Monroe County, N.Y., has been documented for more than 100 years. In the past, sediment and contamination carried by Irondequoit Creek have contributed to the accelerated eutrophication of Irondequoit bay on Lake Ontario. In 1979, the U. S. Geological Survey (USGS), in cooperation with the Monroe County Department of Health, monitored the quantity and quality of storm runoff in the Irondequoit Creek basin (Zarriello and others, 1984; Kappel and others, 1986) as part of the National Urban Runoff Program (NURP). Since completion of that study in 1981, the USGS, the Monroe County Health Department, and the Monroe County Environmental Health Laboratory (MCEHL) have continued to collect data on precipitation, streamflow, and ground water at selected sites in the basin to document temporal changes in concentration and loads of chemical constituents and to evaluate the success of county programs designed to improve water quality in the basin.

Data collected during 1984-88 are presented in Johnston and Sherwood (1994) and interpreted in Johnston and Sherwood (1996). This report, the third in the series, includes stream-discharge and (or) water-quality data from fourteen stream-gaging stations, precipitation data from four sites, and ground-water data from 15 wells during 1989-93.

Purpose and Scope

This report summarizes the hydrologic conditions in Monroe County from October 1988 through September 1993 in hydrographs and box plots and presents (1) records of chemical quality of streams; (2)

ground-water levels and quality at wells; and (3) chemical quality and daily precipitation at rain gages; statistical summaries of records of streamflow are included. The records represent (1) streamflow and water quality at eight continuous-record gaging stations; (2) water levels, chemical quality and temperature at 15 observation wells; and (3) precipitation quality at three rain-gage sites, and total daily precipitation at four sites. This report does not contain data that have been previously published in the USGS annual water-data reports. Data collected during 1984-88 are given in two companion reports; This report presents data collected during 1989-93. All hydrologic data collected in Monroe County since 1993 have been published annually in the USGS New York water data report.

Data Availability

Long-term streamflow data from the St. Lawrence River Basin collected in Monroe County by the USGS through cooperative programs with State and other federal agencies, are available from USGS files, as are water-quality data from Genesee River at Charlotte Docks at Rochester (station discontinued in 1994) near the mouth of the Genesee River. These long-term data can be useful in defining historical trends in streamflow and water quality.

All information used in preparation of records in this report, such as discharge-measurement notes, water-temperature measurements, gage-height records, and rating tables, is on file in the USGS office in Ithaca, N.Y. Most gaging-station records are also available in computer-readable form, and many statistical analyses are available. Information on the availability of unpublished data or statistical analyses can be obtained from the USGS office in Ithaca or Troy, N.Y.

Records of streamflow, chemical quality of streams, ground-water levels, chemical quality of ground water, precipitation amounts, and chemical quality of atmospheric deposition for water years 1984-88 are given in Johnston and Sherwood (1994).

Acknowledgments

Special thanks are extended to MCEHL for assistance in the collection, analysis, and verification of the data presented in this report. Richard Burton, laboratory administrator, provided guidance and suggestions throughout the data-collection period. Charles Knauf of MCEHL organized and prepared the chemical-quality data for entry into the USGS data base. Staff of the Powder Mill Park fish hatchery assisted in the measurement of ground-water levels at the Powder Mill Park wells.

DESCRIPTION OF STUDY AREA AND SUMMARY OF HYDROLOGIC CONDITIONS

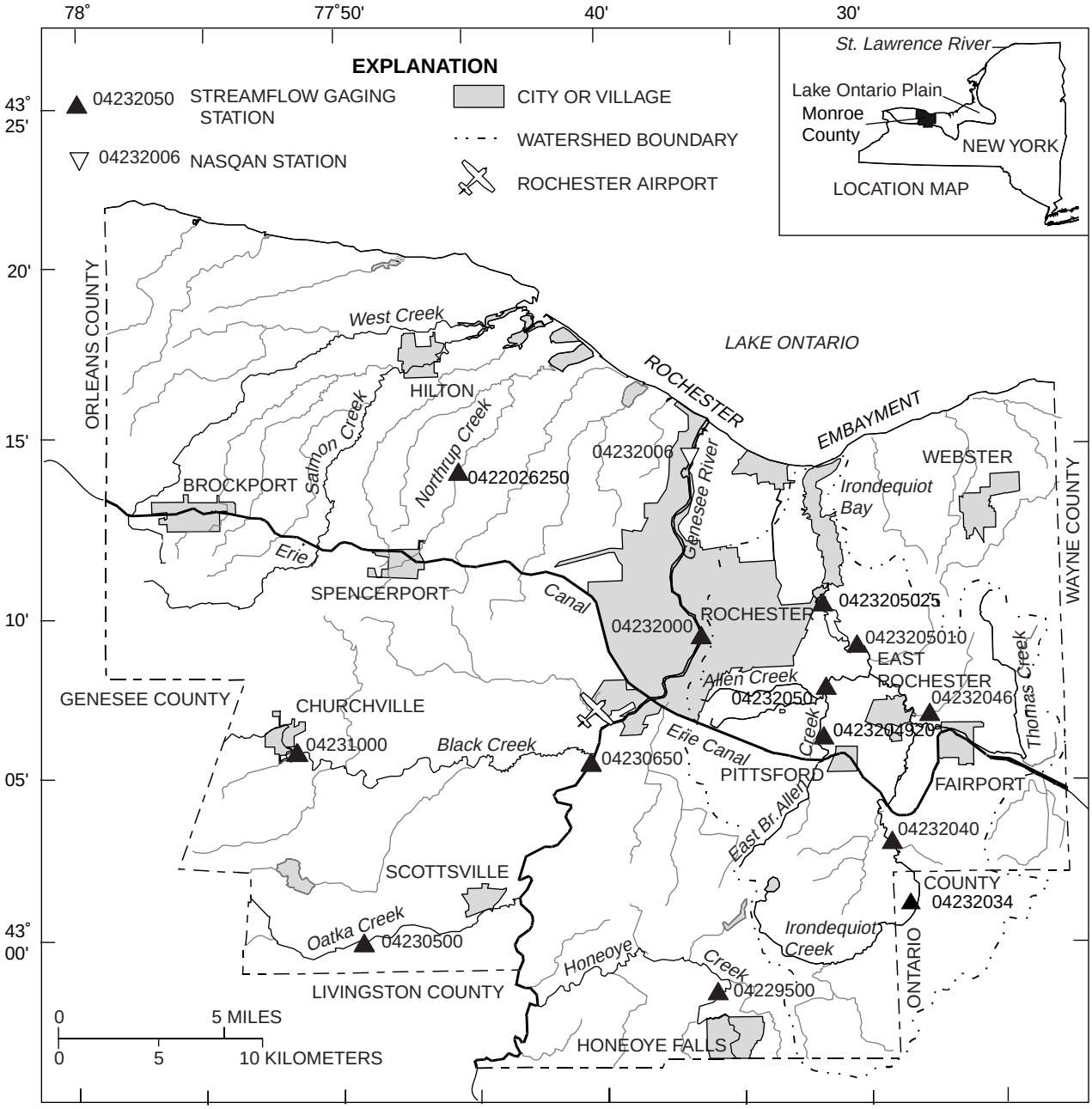
Monroe County, in the Lake Ontario Plain region of western New York (fig. 1), has a total area of about 673 mi^2 (Heffner and Goodman, 1973). Rochester, the county seat and largest city, is in the northern part of the county.

Hydrologic Features

The Genesee River, the largest in Monroe County, has a drainage area of 2,480 mi^2 at its mouth (Wagner and Dixson, 1985) and flows northward through the city of Rochester into Lake Ontario. Streams in the several smaller drainage basins (ranging from less than 5 mi^2 to about 88 mi^2) west of the Genesee River flow northeastward into Lake Ontario or one of the several bays of the western part of the Rochester Embayment, and those in several small drainage basins (ranging from less than 0.2 mi^2 in size to nearly 24 mi^2) east of the Genesee River flow north or northwestward into Lake Ontario and the Irondequoit Creek basin (169 mi^2).

Irondequoit Creek drains into Lake Ontario through Irondequoit Bay (fig. 2). The drainage basin is mostly in eastern Monroe County and includes drainage from the east side of the city of Rochester and from neighboring Ontario and Wayne Counties. A more complete basin description, that includes storm-water and sanitary-sewer systems, drinking-water supplies, surface geology and climate, is given in Kappel and others (1986). The glacial history and geohydrology of the Irondequoit Creek valley are discussed in Kappel and Young (1989).

The Erie Canal flows southeastward through the middle of the county and receives flow from the headwater areas of many of these streams. Diversion structures at several points along the canal allow water to



Base from U.S. Geological Survey
Digital line graph, 1:100,000

Figure 1. Location of streamflow-gaging stations and principal geographic features of Monroe County, N.Y. (From Johnston and Sherwood, 1996, fig. 1).

be discharged from the canal to augment the flow of several small streams during low-flow conditions. The canal crosses the Genesee River 11.8 mi upstream from its mouth. Water diverted by the canal from Lake Erie is discharged into the Genesee River from the west; a smaller amount of water is then diverted from the Genesee River eastward into the canal.

Hydrologic Conditions during 1989-93, by Water Year

Hydrologic conditions in Monroe County fluctuated considerably during water years 1989-93. Surface-water, ground-water, and precipitation patterns are discussed separately further on.

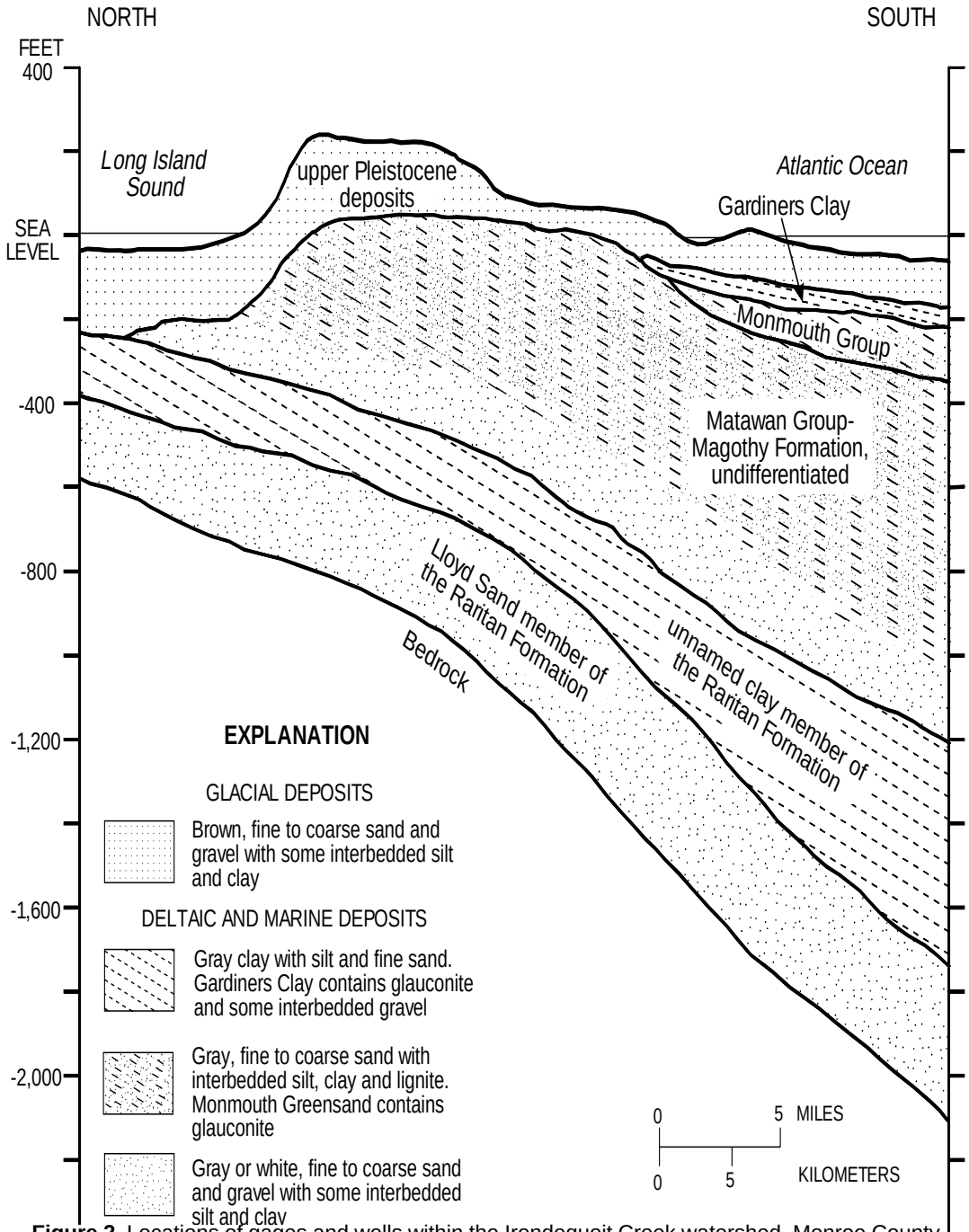


Figure 2. Locations of gages and wells within the Irondequoit Creek watershed, Monroe County, N.Y. (From Johnston and Sherwood, 1996, fig. 1)

Annual mean stream discharges in the county (table 1) ranged from 77 percent to 145 percent of long-term averages, and annual mean ground-water levels in a long-term observation well (Ot 900) southeast of Monroe County (fig. 1), were below normal. Total precipitation for the 5-year period, recorded at the Rochester Airport, was slightly more than 8 in. above normal, however.

Surface Water

Discharge-frequency statistics were computed for stations on unregulated streams with more than 9 years of record and were compared with 1989-93 data to indicate the representativeness of streamflow during 1989-93. Records from Oatka Creek at Garbutt and Black Creek at Churchville, each with 48 years of

record, were judged suitable for hydrologic comparison (table 1). In the Irondequoit Creek basin, only Allen Creek near Rochester, with 33 years of record, and Irondequoit Creek at Blossom Road, with 13 years of record, have been in operation long enough to provide a record adequate for hydrologic comparison. Although streamflow at these sites is affected by minor diversions from the Erie Canal (as at several other sites in the basin), comparison of mean annual flows (table 1) indicates similar departures, for most years from the period-of-record average discharge.

Discharge

Annual mean discharges in north-central New York State during water years 1989-93 ranged from above average to below average (table 1). Monthly means for Allen Creek near Rochester during the same period were commonly well above or below the median value for the particular month. The median of monthly means was determined from a statistical analysis of daily streamflow data that computed monthly means for all months of water years 1970-88. The means for each month were then ranked, and the median selected such that, for any particular month, 50 percent of the values would fall above the median, and 50 percent below.

The normal range for daily values was determined from a statistical analysis of daily streamflow data for water years 1970-88. Means for each day of the year were ranked, and 20-percent, 50-percent, and 80-percent points were selected such that 20 percent of the means for any particular day would exceed the 20th percentile, and 20 percent would be less than the 80th percentile; the remaining 60 percent of the values would fall between the 20th and 80th percentiles (in the normal range). The 50th percentile value represents the median discharge for any particular day.

1989 water year.--Mean monthly streamflow was less than the median from October through April as result of below-normal precipitation for those months (fig. 3A). Mean monthly streamflow was greater than the median only during May and June, when precipitation was much greater than normal; from July through September it again fell to less than the median as a result of below-normal or near-normal precipitation for those months. Daily streamflows reflected the monthly means—largely below normal from October through March, normal or slightly above normal during April, May, and June, and normal or below normal from July through September (fig. 3A).

Table 1. Annual mean discharge for selected stations in Monroe County, water years 1989-93, with average discharge for period of record.
[ft^3/s, cubic feet per second. Locations are shown in fig. 1]

Water year	Annual Mean discharge (ft^3/s)	Percent of average discharge	Period of record	Average discharge (ft^3/s)
04230500 Oatka Creek at Garbutt				
1989	227	105	1946-93	217
1990	238	110		
1991	256	118		
1992	192	88		
1993	281	129		
04231000 Black Creek at Churchville				
1989	100	86	1946-93	116
1990	130	112		
1991	135	116		
1992	113	97		
1993	168	145		
04232050 Allen Creek near Rochester				
1989	24.6	77	1961-93	32.1
1990	35.9	112		
1991	32.0	100		
1992	28.1	88		
1993	30.6	95		
0423205010 Irondequoit Creek at Blossom road				
1989	108	81	1982-93	134
1990	144	107		
1991	155	116		
1992	136	101		
1993	182	136		

1990 water year.--Daily and monthly mean streamflow were in the below-normal range from October through December, above or near normal from January through May, and close to or in the normal range from June through September (fig. 3B). The above normal streamflow from January through May resulted from above-normal precipitation and runoff from snowmelt for those months, and the near-normal streamflow from June through September resulted from near-normal precipitation for those months.

1991 water year.--With the exception of December and March, monthly mean and daily mean streamflows for October through May were near normal. Above-normal precipitation contributed to the higher-than-normal flows in December and March. Monthly mean flows from May and through the end of the water year were below median values, and daily streamflows were in the low-normal range (fig. 3C).

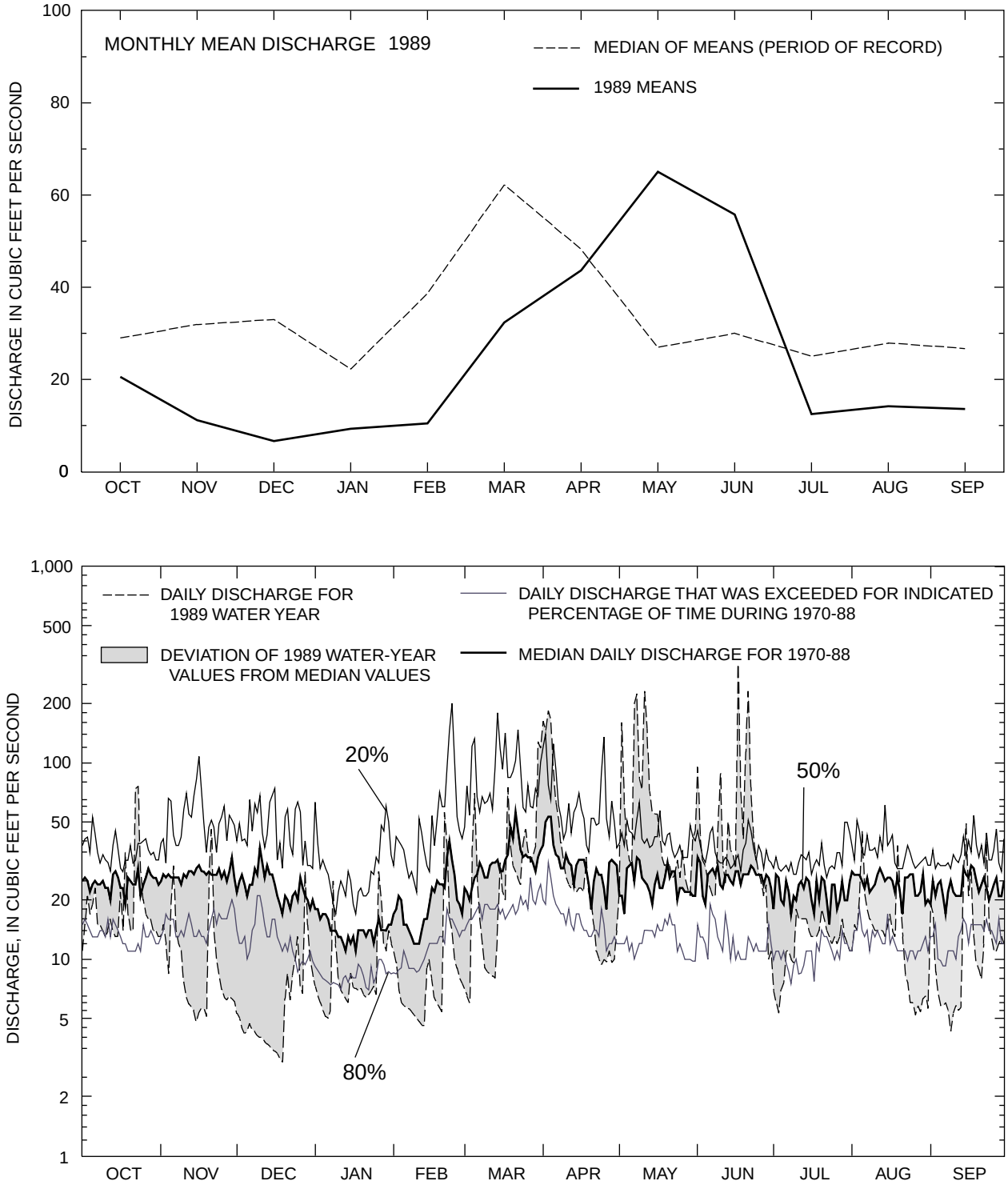


Figure 3A. Hydrographs for Allen Creek near Rochester, water year 1989: above monthly mean discharge during water year 1989 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water year 1989 with deviation from median values.

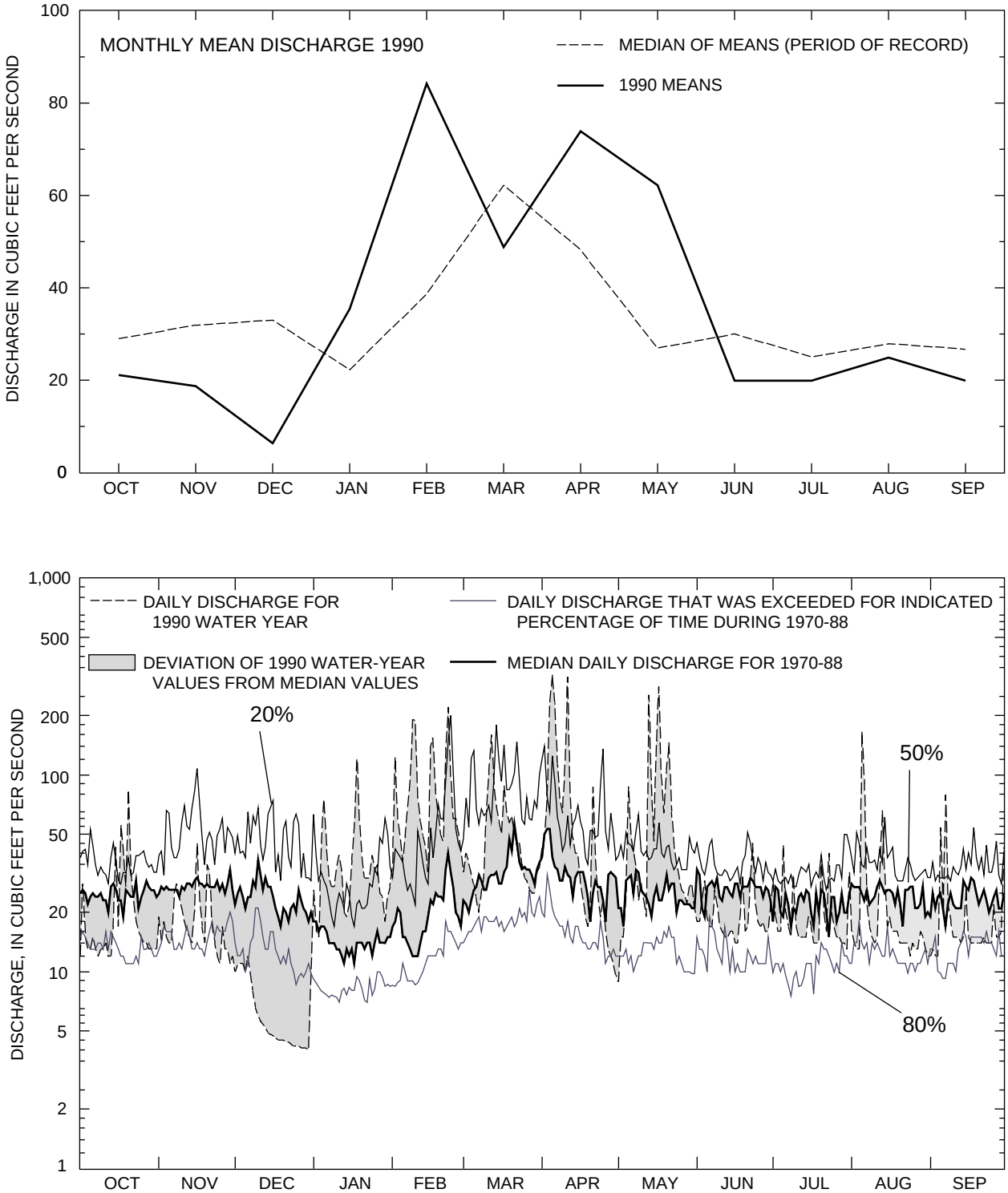


Figure 3B. Hydrographs for Allen Creek near Rochester, water year 1990: above monthly mean discharge during water year 1989 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water year 1990 with deviation from median values.

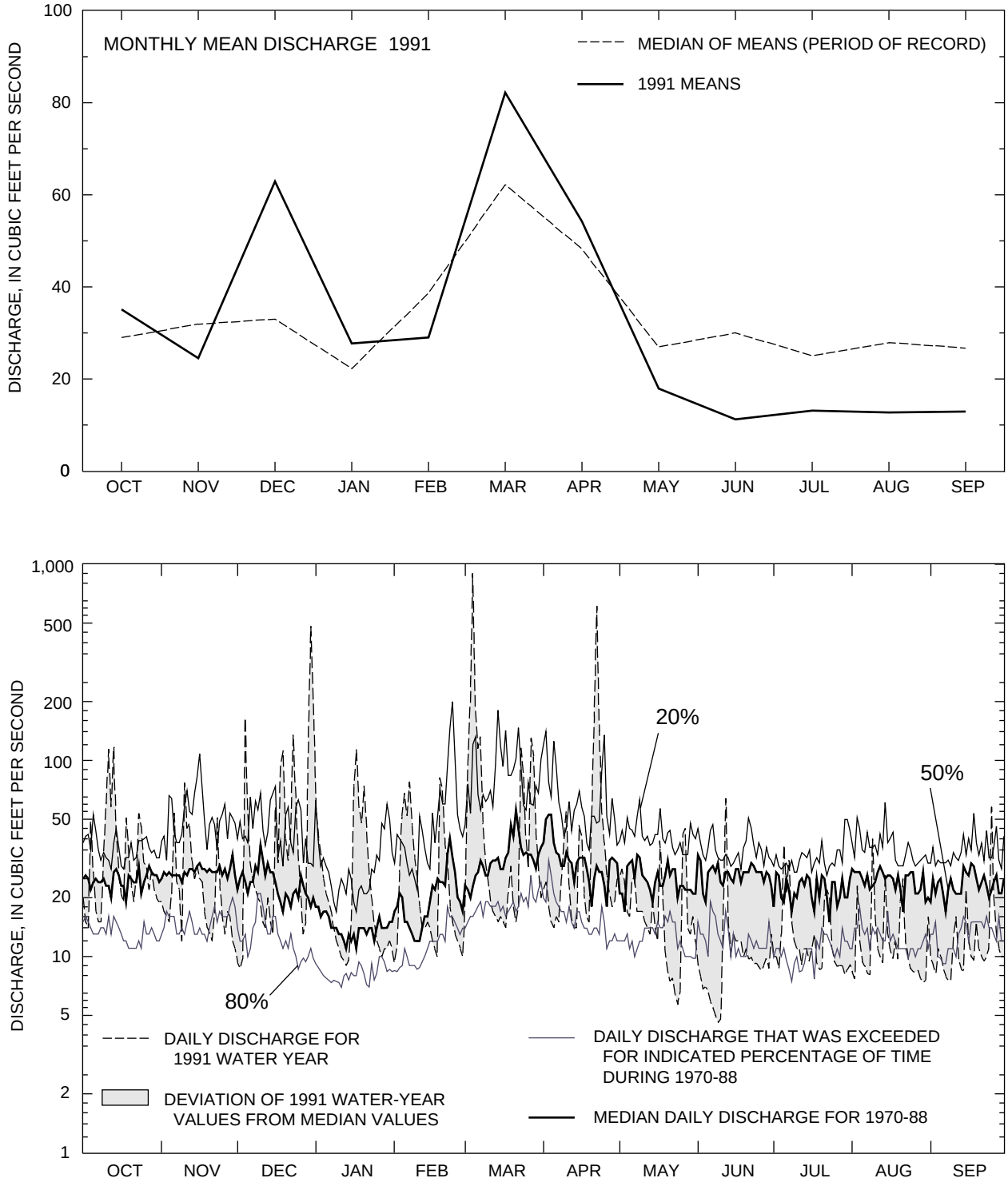


Figure 3C. Hydrographs for Allen Creek near Rochester, water year 1991: above monthly mean discharge during water year 1991 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water year 1991 with deviation from median values.

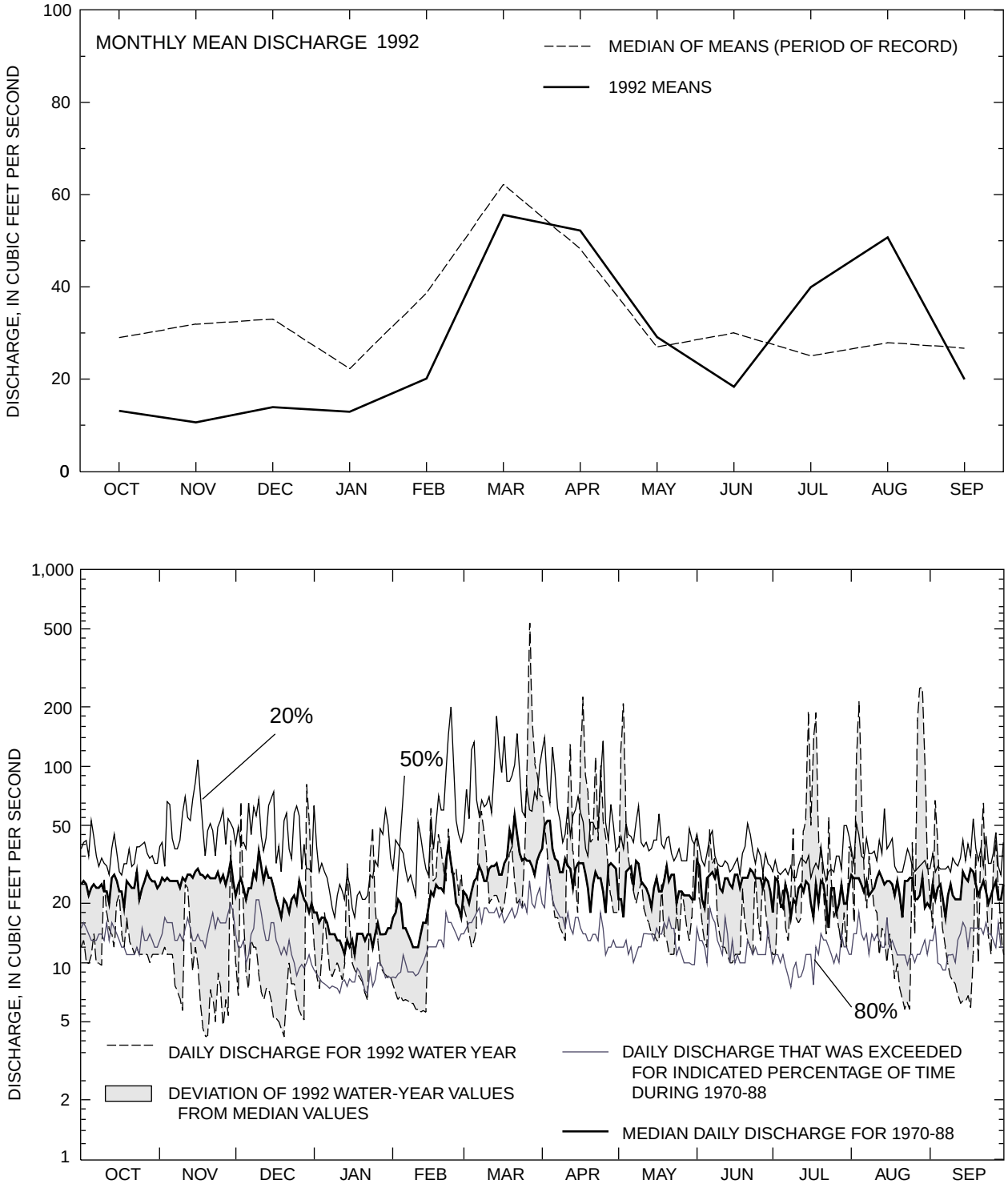


Figure 3D. Hydrographs for Allen Creek near Rochester, water year 1992: above monthly mean discharge during water year 1992 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water year 1992 with deviation from median values.

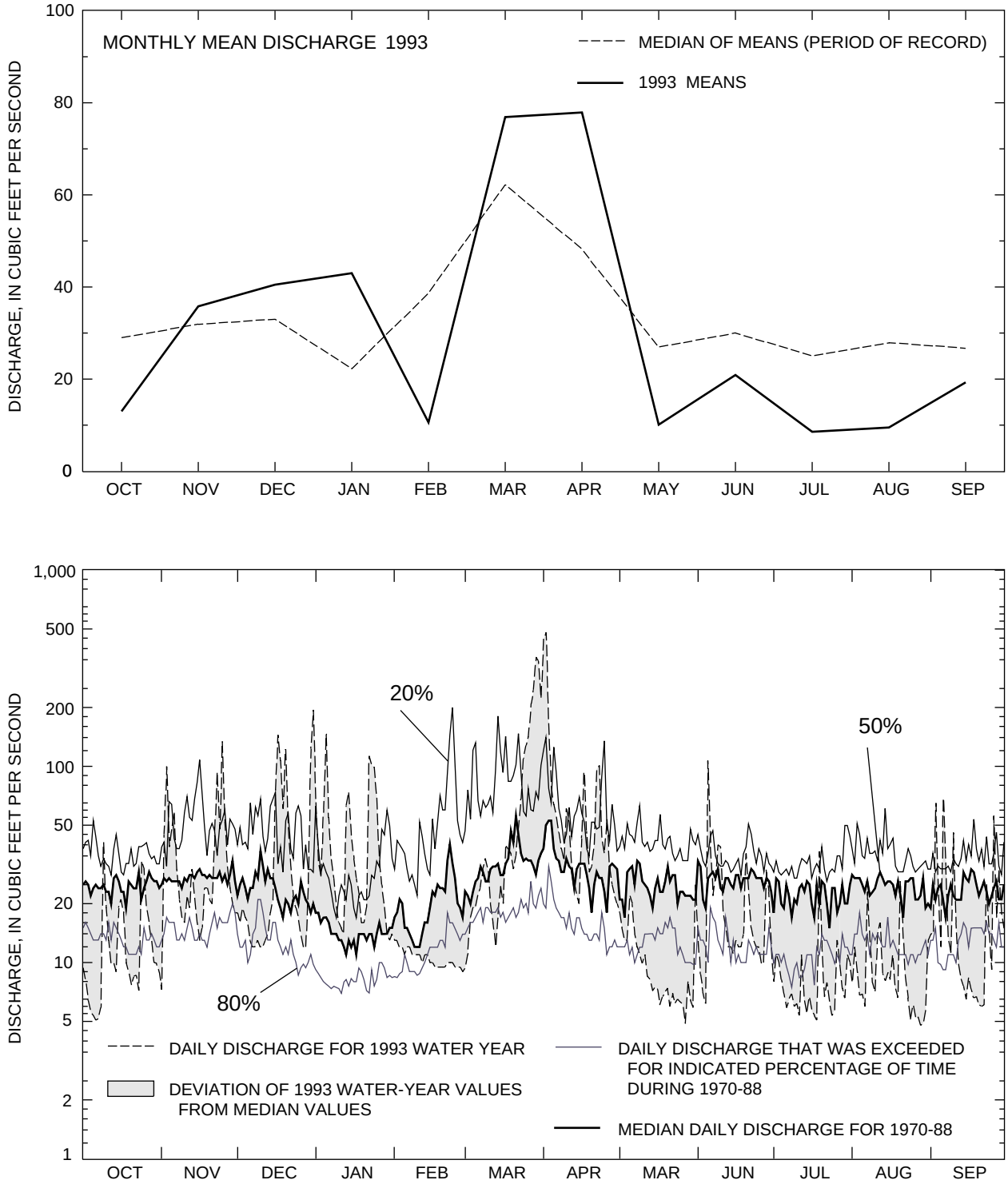


Figure 3E. Hydrographs for Allen Creek near Rochester, water year 1993: above monthly mean discharge during water year 1993 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80 percent discharges for 1970-88 period of record and daily discharges during water year 1993 with deviation from median values.

1992 water year.--Monthly mean streamflows were below the median until March, when above- normal precipitation for March and April caused streamflows to nearly equal median values. The monthly mean for June was again below the median value, but much greater-than-normal precipitation from July through August caused monthly mean streamflows to exceed median values for those months (fig. 3D). Daily mean streamflows were below normal for much of the time from October through February. Snowmelt and greater-than-normal precipitation from March through the remainder of the water year resulted in daily mean streamflows in the low-normal range (fig. 3D).

1993 water year.--Monthly mean streamflow for November, December, and January was higher than the median values for those months in response to slightly greater-than-normal precipitation, and melting of the snowpack in March and above-normal precipitation in April caused streamflow values for those months to be above the median (fig. 3E). Deficient rainfall in the spring and summer caused mean monthly streamflow to be below median. Daily mean streamflows for the water year were generally in the normal range until March, when they fell below normal for the remainder of the year (fig. 3E).

Chemical Quality

Chemical data from the Irondequoit Creek Basin and at Northrup Creek at North Greece in western Monroe County indicated that yearly mean concentrations of most constituents were relatively constant during 1989-93. Boxplots for each station (fig. 4) show the distribution of constituent concentrations over the 5-year period. Median concentrations of dissolved sulfate and dissolved chloride showed the most variability among sites, and median concentrations of total phosphorus and orthophosphorus at the Northrup Creek site were much higher than at the six Irondequoit basin sites during the study period.

Comparison of median concentrations of chemical constituents at Allen Creek and Irondequoit Creek at Blossom road in 1984-88 with those for 1989-93 indicates virtually no change (fig. 5).

Ground Water

Community water suppliers deliver about 4.47 Mgal/d of ground water to more than 45,000 residents of Monroe County (D.S. Lumia, U.S. Geological Survey, oral commun., 1992). In addition about 25,400 homes in rural areas of the county obtain a total of 1.9 Mgal/d from wells. Ground water also is the source of base flow and maintains streamflow during periods of limited rainfall. Ground-water recharge generally begins at the end of the growing season in the fall and receives much of its recharge during snowmelt periods, which are often accompanied by rain. Recharge during the growing season occurs only when rainfall exceeds evapotranspiration demands.

Ground-water flow in the unconsolidated aquifers in the Irondequoit valley, as described in detail by Kappel and Young (1989), is continuous but restricted by deposits of low-permeability in the buried Pinnacle Hills Moraine (Kappel and Young, 1989, fig. 3 and pls. 1A and 1B), which transects the valley north of the Ellison Park wells and south of well Mo 659 (B86-2) (fig. 2). The aquifers north and south of the moraine have only limited subsurface connections through that part of the moraine, which is continuously incised by Irondequoit Creek (Kappel and Young, 1989). Ground water discharges from the Powder Mill Park area as seepage directly into Irondequoit Creek, as springs along the base of the east valley wall, and as underflow northward through the unconsolidated deposits of the valley. Similarly, ground water in the Ellison Park area discharges northward into Irondequoit Creek and as northward underflow (Kappel and Young, 1989).

Data on water from 15 wells in Monroe County, all in the Irondequoit Creek basin, are presented in the ground-water section of this report, which also includes water levels and seasonal temperature profiles at each of these wells. Three of the wells are in Powder Mill Park (see inset, fig. 2), and 12 are in Ellison Park. Six of the Ellison Park wells are near Blossom Road and together form a line that transects the valley, another five are in the wetlands of Ellison Park near Browncroft Boulevard, and one (Mo 659) on the eastern boundary of Ellison Park and north of Browncroft Boulevard. Two of the Powder Mill Park wells —Mo 10 (PM 83-1) and Mo 11(PM 83-2)— are completed in the water-table aquifer, and the third—Mo 12 (PM 83-4)—is completed in the confined aquifer. All Ellison Park wells except Mo 659 are screened in the water-table aquifer. The four sets of paired wells—Mo 1 (El 84-1) and Mo 2 (El 84-2), Mo 5 (El 84-5) and Mo 6 (El 84-6), Mo 663 (B88-3s), and Mo 664 (B88-3d) and Mo 667 (B88-2s) and Mo 668 (B88-2d)—indicate the variability of potentiometric head at differing depths in the water-table aquifer. Well Mo

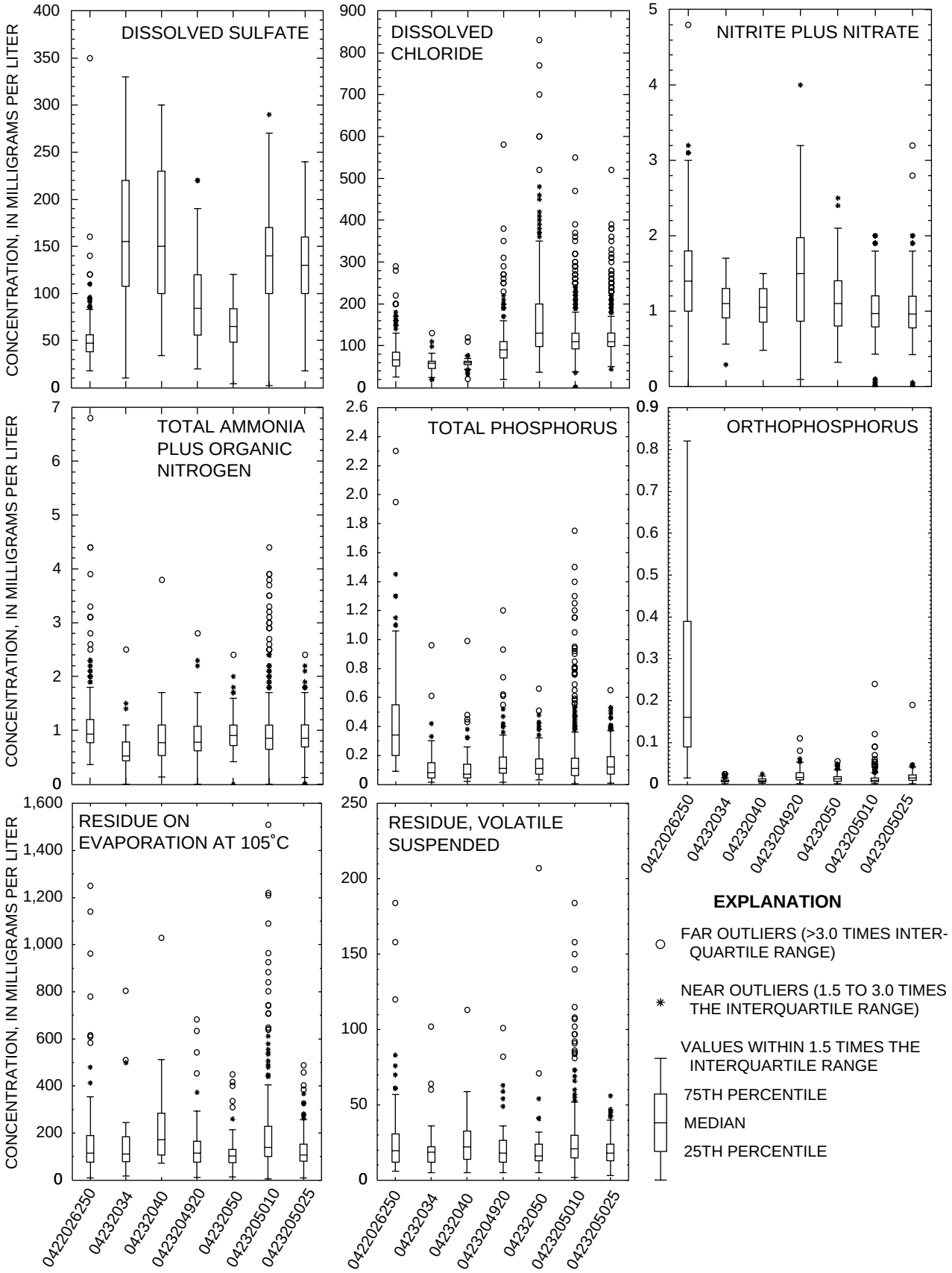


Figure 4. Concentrations of eight constituents in samples from Northrup Creek at North Greece, and at six sites in the Irondequoit Creek basin, 1989-93. (Locations are shown in fig. 1.)

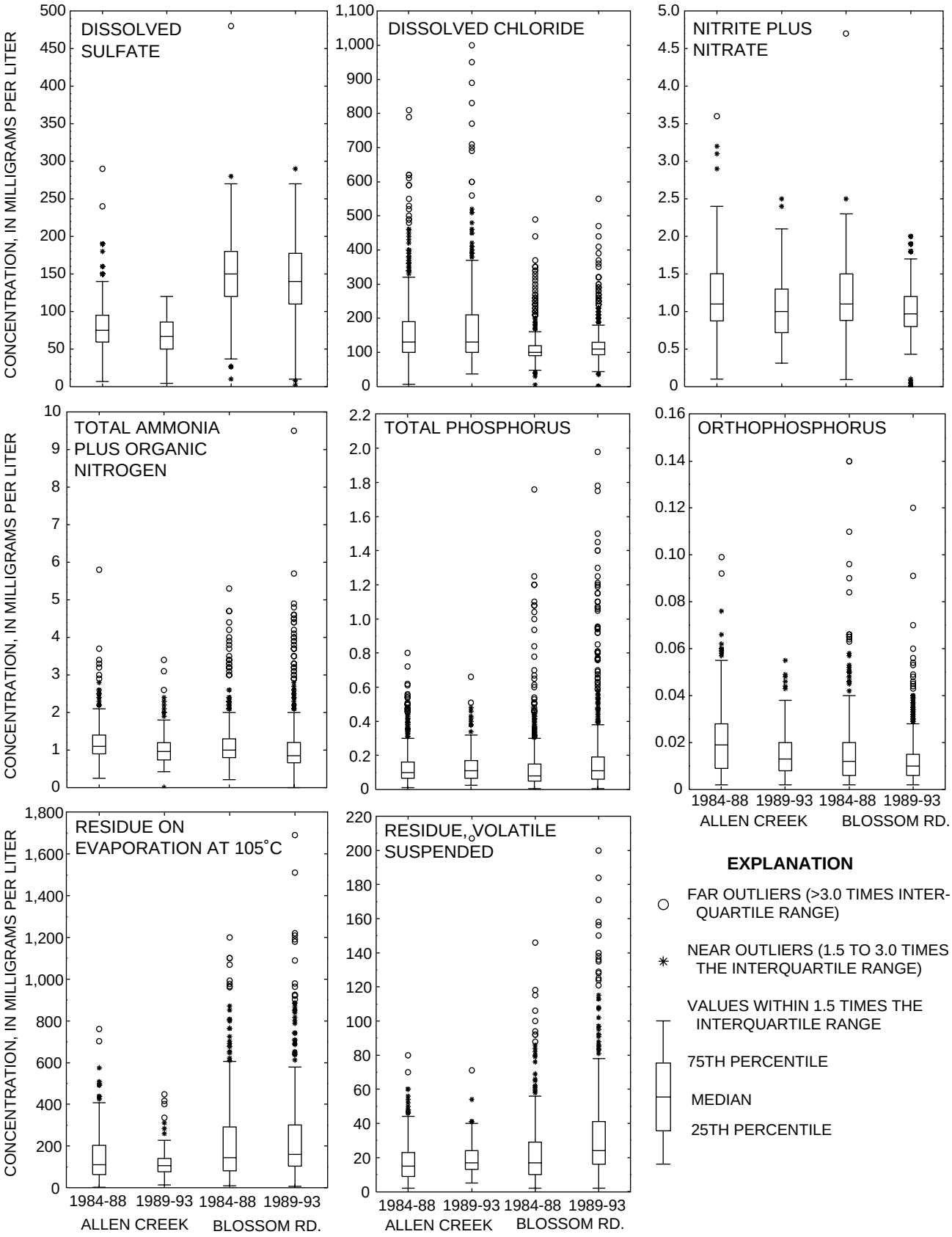


Figure 5. Concentrations of eight constituents in samples from Allen Creek near Rochester (04232050) and Irondequoit Creek at Blossom road (0423205010), water years 1984-88 and 1989-93.

659 (B86-2) is screened in the confined aquifer. All wells are considered to represent the same aquifer system (Kappel and Young, 1989).

Water Levels

Monroe County has no observation wells from which USGS has collected long-term records; therefore, well Ot 900, in the northern part of Ontario County, to the southwest (fig. 2), 8.5 mi east of the village of Victor, was selected as an indicator of annual water-level trends because it is the well nearest to Monroe County with a long term-record. This well penetrates a confined aquifer and, thus, might not fully reflect trends of water-table aquifers in Monroe County. Water-table aquifers in other parts of New York State indicate annual trends similar to those at well Ot 900, however, although the fluctuations at Ot 900 are more subdued (U.S. Geological Survey, 1988). The monthly mean water levels at this long-term observation well during water years 1989-93 (table 2) are generally in the below-average range (fig. 6). The annual maximum water levels for this period range from 2.15 ft to 2.90 ft below the maximum for the period of record. A new period-of-record minimum (4.44 ft) was observed during the 1992 water year. Monthly precipitation at the Rochester Airport for water years 1989-93 and normal monthly precipitation are shown in figure 8 (p. 13) and discussed in the following section of this report.

1989 water year.--Water levels in well Ot 900 were substantially below the long-term monthly mean at the beginning of the 1989 water year, in response to below-normal precipitation. But much higher-than-normal precipitation in May and June (+3.41 in. and +2.87 in., respectively) caused water levels to approach near long-term means, after which below-normal precipitation in July and August and near-normal precipitation in September caused water levels to decline to slightly below the long-term means for the remainder of the year.

1990 water year.--Ground-water levels at well Ot 900 were slightly below the long-term monthly means but closely followed them. Above-normal precipitation in February, April, and May brought water levels up to long term monthly means for May and part of June. Normal precipitation for the remainder of the water year was insufficient to reverse the seasonal decline in water levels during the summer months.

Table 2. Annual mean, maximum, and minimum water levels for period of record (1955-88) and water years 1989-93 at well Ot 900, Ontario County, N.Y.

[Water levels are in feet above land surface. Locations shown in fig. 2.]

	Period of record	Water year				
		1989	1990	1991	1992	1993
Mean	8.21	6.98	7.52	7.05	6.87	7.76
Max.	11.14	8.52	8.98	8.24	8.58	8.99
Min.	4.59	5.17	6.04	4.65	4.44	5.40

1991 water year.--Heavy precipitaton in October caused water levels in well Ot 900 to recover briefly to slightly above long term means. Despite above-normal precipitation in December, below- normal precipitation in January and February, and well-above-normal precipitation in March and April, water levels remained relatively constant until May, when they began a decline to record minimums.

1992 water year.--Water levels began the 1992 water year with a period-of-record minimum (4.44 ft) on October 28 but increased over the next several months to slightly above period-of-record lows for each month. After the slightly above-normal precipitation of March and April, water levels decreased slightly but were closer to the long-term monthly means. Recharge from heavy precipitation in July (6.03 in.) and August (4.45 in.) caused water levels at well Ot 900 to climb substantially above long-term monthly means for the remainder of the water year.

1993 water year.--Despite slightly below-normal precipitation for October and near-normal precipitation from November through January, water levels remained above the long-term monthly means until February, when low temperatures and deficient precipitation caused them to decline in late February and March. Snowmelt and near-normal precipitation during April and May caused water levels to recover to near long-term means, but seasonal declines in precipitation kept water levels below monthly means for the remainder of the year.

Chemical Quality

Ground-water samples were collected from 15 wells in Monroe County (3 from Powdermill Park, 12 from Ellison Park), and water temperatures were measured at successive depths in the wells to provide water-temperature profiles. Results are given in the section on ground-water data.

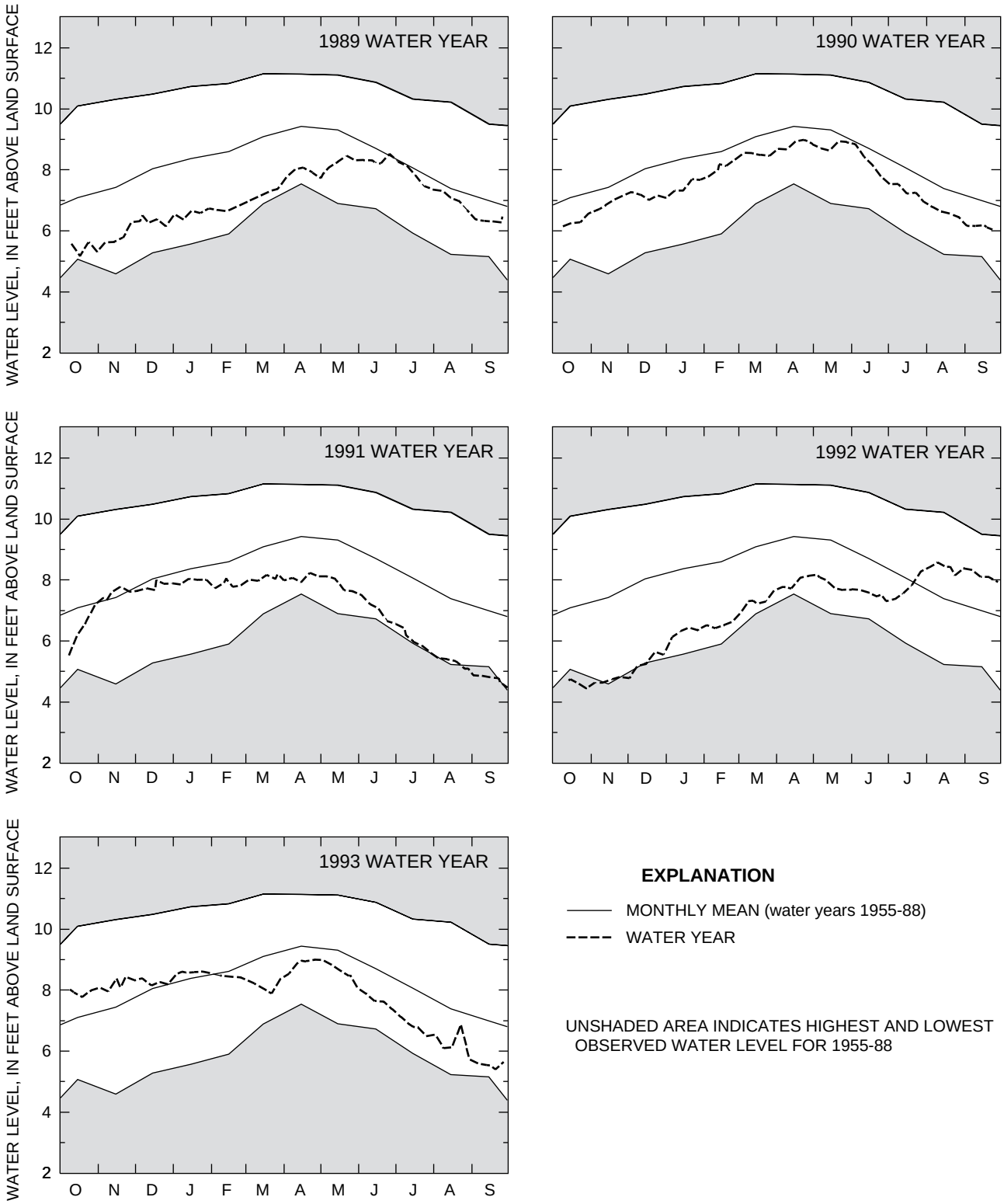


Figure 6. Observed water levels for water years 1989-93 at well Ot 900 in northern Ontario County with monthly mean, maximum, and minimum water level throughout period of record, 1955-88. (Location is shown on fig. 2.)

All wells (fig. 2) were sampled quarterly. Two wells (Mo 5 and Mo 6) were discontinued in June 1989, and two more (Mo 1 and Mo 4) were discontinued at the end of September 1990. Analyses of ground-water samples from both parks indicate that water in the aquifer system has high specific conductance. Specific conductance values at all but two of the wells (Mo 659 and Mo 668), averaged from 830 to 2,800 µS/cm. Specific conductance at Mo 659 averaged 670 µS/cm and Mo 664 20,000 µS/cm. Likewise, hardness values at all but wells Mo 659 and Mo 664 averaged from 290 to 845 mg/L as $CaCO_3$; hardness values at Mo 659 and Mo 664 had averaged of 126 and 5900 mg/L as $CaCO_3$, respectivly. Average alkalinity values ranged from 200 to 345 mg/L as $CaCO_3$.

Temperature

Water temperatures were measured seasonally during 1989-93 in 11 water-table wells and one confined aquifer well (Mo 659) in Ellison Park, and in two water-table wells and one confined-aquifer well in Powder Mill Park. Water temperatures were not measured in wells Mo 659, Mo 665, Mo 667, Mo 668, Mo 663, or Mo 664 until the 1991 water year. Seasonal changes in water temperature profiles are useful in estimating the vertical component of hydraulic conductivity and, together with concentration data for selected chemicals, can be used to predict the downward movement of chemical contaminants (fig. 7).

Precipitation

Precipitation data have been collected in the Rochester area since 1827. Normal, monthly, and annual precipitation data used in this report (fig. 8 and table 3) are from records published by the National Oceanic and Atmospheric Administration for the Rochester Airport. Normal precipitation values are based on the average precipitation during 1951-80. Precipitation-quantity data in this report represents three sites in the Irondequoit Creek basin and one site in the Genesee River basin near the drainage divide between these two basins. Data on chemical quality of precipitation are also collected at the Genesee River basin site in Mendon Ponds County Park, Empire Boulevard at the Irondequoit Bay wetlands, and at the State University of New York (SUNY) Brockport in western Monroe County (fig. 2).

Much of the precipitation-quantity data collected at the four sites contain large gaps (missing and ques-

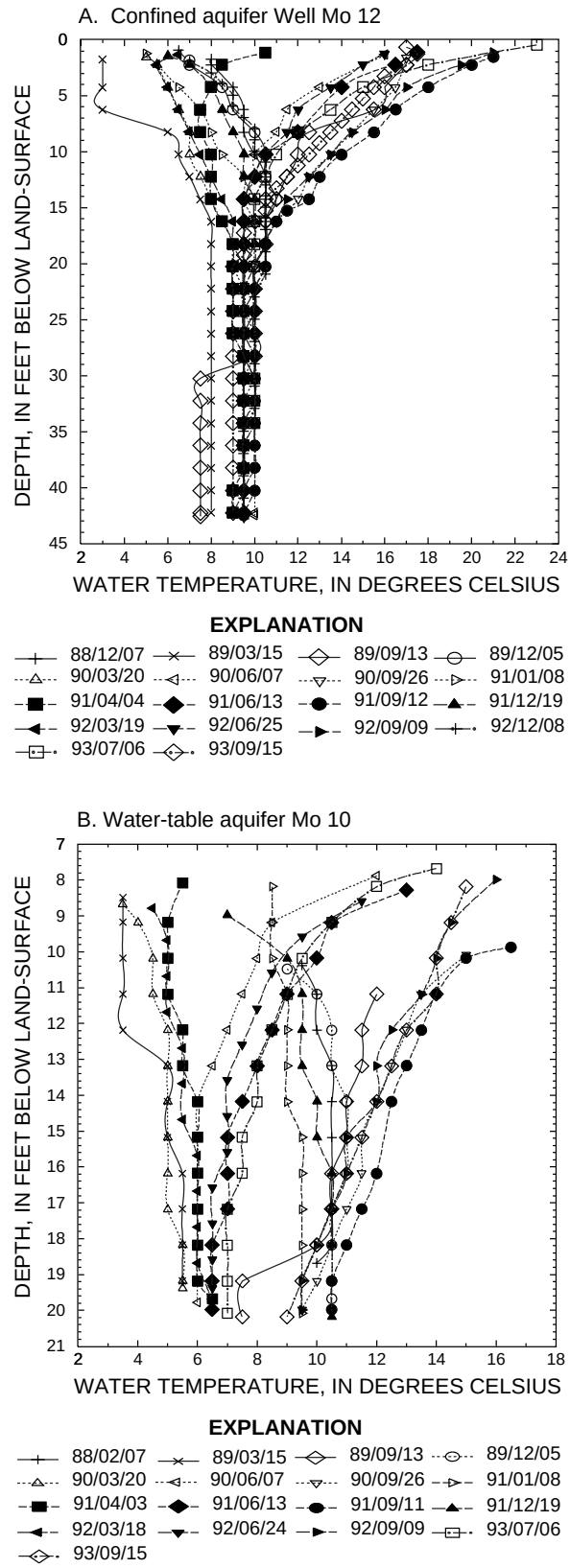


Figure 7. Water-temperature profiles from a well screened in (A) a confined aquifer, and (B) a shallow water-table aquifer, in Powder Mill Park, 1989-93. Note differing scales. (Locations are shown in fig. 2, tables and graphs are given in the ground-water tables (p. 116-190).

tionable data); no attempt was made to estimate missing data, and questionable data were deleted.

Precipitation-quantity data collected at Thomas Creek at Fairport and Irondequoit Creek near Pittsford contained smaller gaps, and these values were estimated.

Table 3. Total annual precipitation at Rochester airport, by water year, and departures from the normal[1] of 31.27 inches per year.
[values are in inches]

	1989	1990	1991	1992	1993
Precipitation	31.07	36.04	33.09	35.56	28.72
Departure	-0.20	4.77	1.82	4.29	-2.55

[1] The value for "normal" monthly or annual precipitation as used by NOAA is computed as the average of the appropriate values for 1951-80. This is not the same as the statistical normal used by the USGS, when referring to normal runoff or normal water level, where half of the values for the specified period are above the normal and half below.

Quantity

Annual total precipitation at the Rochester Airport for water years 1989-93, from records published by the National Oceanic and Atmospheric Administration (NOAA) (1988-93), ranges from 4.77 in. above normal (31.27 in. for 1951-80) in 1990 to 2.55 in. below normal in 1993 (table 3). The cumulative total for the 5-year period was 8.13 in. above normal. Monthly precipitation recorded at the Rochester airport during each of the 5 water years is shown in figure 8.

1989 water year.--Precipitation was below normal from October through February, was well above normal during March, and below normal for April. The May and June totals were well above normal, and the July total was well below normal. The August total was slightly below normal, and the September total slightly above normal. Total precipitation for the year was slightly (0.20 in.) below normal.

1990 water year.--Precipitation was above normal for October and below normal for November, December, and January. Precipitation for February was substantially above normal, and that for March was well below normal. Precipitation for April and May also was much higher than normal, and that for June, July, August, and September was slightly above normal. Total precipitation for the 1990 water year was well above (4.77 in.) normal.

1991 water year.--Total precipitation for the 1991 water year was 1.82 in. above normal. Totals for October, December, March, and April were well above normal (avg. 1.78 in.). Precipitation for all remaining months was below normal except September, in which precipitation was near normal.

1992 water year.--Precipitation recorded at the Rochester Airport during the 1992 water year was 4.29 in. above normal. Except for July, in which precipitation was 3.55 in. above normal, and August, in which it was 1.25 in. above normal, the monthly totals for the rest of the months were within 1.00 in. of normal.

1993 water year.--Most months during the 1993 water year had near-normal precipitation. May, June, July, and August values were moderately below normal, while the September value was well above normal. Total precipitation for the year was 2.55 in. below normal.

Chemical Quality

Data on chemical quality of precipitation are collected by MCEHL at Mendon Ponds Park, Irondequoit Creek at Empire Boulevard, and at the SUNY Brockport campus (fig. 2). Three forms of precipitation at Mendon Ponds Park were analyzed for chemical quality: (1) wetfall (liquid deposition), (2) dustfall (dry deposition, which is that fraction of precipitation that settles out of the atmosphere as dust), and (3) bulk (composite) deposition, which consists of the wet and dry forms combined. Only wetfall and dustfall are collected at the Empire Boulevard and SUNY Brockport sites. These analyses provide information on the atmospheric contribution of various chemical constituents to streams and land surface.

The three forms of deposition were analyzed for common ions, nutrients, lead, and physical characteristics such as pH and specific conductance. pH values indicated moderate acidity (4.0 to 5.0), which is typical for precipitation in this area. Specific conductance was generally less than 100 µS/cm. Concentrations of lead in late fall and winter and during the summer were slightly above those during the rest of the year.

DATA COMPILATION

The surface-water, ground-water, and precipitation data in the following compilation represent the water years that began October 1, 1988 and ended September 30, 1993. The data include (1) streamflow summaries and surface-water-quality data, (2) ground-water levels and quality, and (3) precipitation quantity and quality. Locations of the stations and wells at which data were collected are shown in fig-

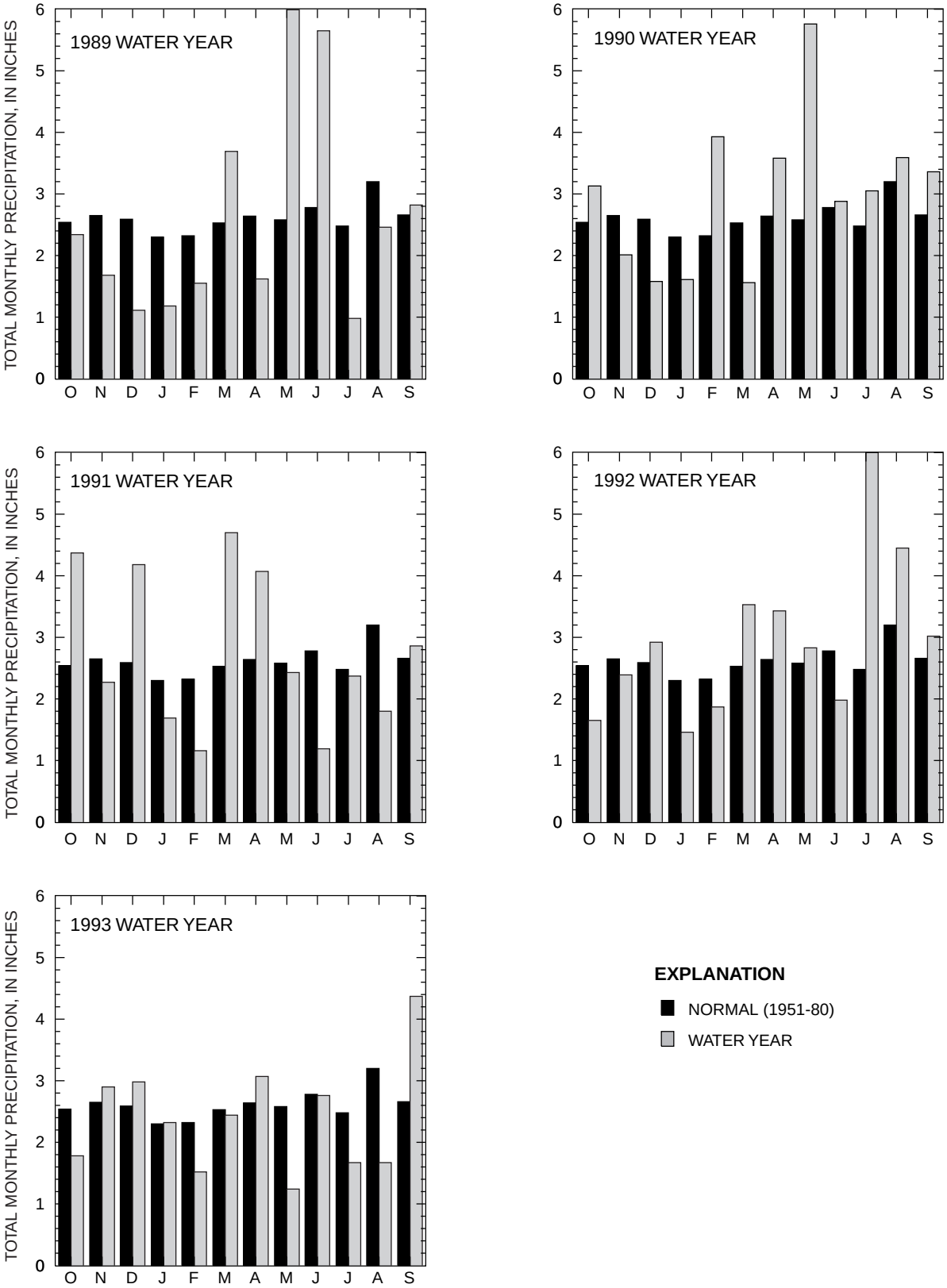


Figure 8. Monthly precipitation at Rochester airport, October 1989 through September 1993 and normal monthly precipitation based on average for 1951-80. (Data from National Oceanic and Atmospheric Administration, Climatological Data Annual Summary, New York series.)

ures 1 and 2. The following paragraphs explain how the data were collected, analyzed, computed, and arranged for presentation.

Surface Water

The surface-water part of this compilation is arranged by station (by downstream-order station - identification number), and the data for each station are grouped into two sections—summaries of daily streamflow data and water-quality data.

Downstream-Order Station-Identification System

Since October 1, 1950, surface-water station records in USGS reports are listed in a downstream order along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station, and a station on a tributary that enters between two main-stream stations is listed between them. The rank of a tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the list of stations on page 41. The downstream order and system of indention show which stations are on tributaries between any two stations in a basin.

Gaps are left in the station-number sequence to allow for new stations; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 04232050, consists of a 2-digit part "04" that represents the major river basin (St. Lawrence) plus the 6-digit downstream-order number "232050." Wherever no gap is available for a new station, two digits are added to make a 10-digit number.

Stage and Discharge

The data collected at streamflow-gaging stations consist of records of stage, measurements of discharge throughout a range of stages, and notations regarding factors that can affect the relation between stage and discharge. Records of stage were obtained from a water-stage recorder that gives either a continuous graph or a tape punched at selected time intervals. Measurements of discharge are made with a current meter through methods adopted by the USGS and described in Rantz and others, (1982, v. 1).

Computation Methods

Results of individual discharge measurements at streamflow-gaging stations are plotted against corresponding stages to develop stage-to-discharge relation curves. These curves are used to prepare rating tables that indicate the approximate discharge for any stage within the range of measurements. If the discharge to be expressed exceeds the measured value, the rating curves are extended from indirect measurements of peak discharge, step-backwater techniques (Bailey and Ray, 1966; Shearman, 1976), slope-conveyance studies (Rantz and others, 1982, v. 1), and logarithmic plotting (Kennedy, 1984). Indirect measurement techniques include (1) slope-area measurements (Dalrymple and Benson, 1967), (2) contracted-opening measurements (Matthai, 1967), (3) computation of flow over dams or weirs (Hulsing, 1967) and (4) computation of flow through culverts (Bodhaine, 1968). Most of these topics are also covered in Rantz and others, (1982, v. 1).

Daily mean discharges are computed through a process whereby the instantaneous stages (gage heights) are applied to the stage-to-discharge curves or rating tables, and the resulting discharges are averaged for each day. Monthly and yearly mean discharges are computed from the daily values. If the stage-to-discharge relation is subject to change as a result of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method (Kennedy, 1983; Rantz and others, 1982, v. 2). Correction factors based on individual discharge measurements and notes by the person making the measurement are applied to the gage heights before the discharges are read from the curves or tables. This shifting-control method also is used if the stage-to-discharge relation is temporarily altered by aquatic growth or debris on the control.

Ice formation in the winter can so obscure the stage-to-discharge relation at some stations that daily mean discharges must be estimated from gage-height record, occasional discharge measurements, and other information such as temperature and precipitation records, notes by hydrographers, and records of discharge at other stations in the same or nearby basins for comparable periods.

Some gaging stations have periods when the gage-height record either is unavailable or is so faulty that it cannot be used to compute daily discharge. This happens when, for example, the recorder stops or fails to operate properly, stilling well intakes are plugged,

or the float is frozen in the well. The daily discharges for such periods are estimated from the recorded range in stage, previous and following records, discharge measurements, weather records, and comparison with other station records in the same or nearby basins. Designation of estimated values in the tables of station records is explained below.

Data Format (Surface-water stations)

The tables of surface-water data in this report are presented in two parts—(A) Discharge and Water-Quality Stations (p. 33-88), and (B) Partial-record and Miscellaneous-record Sites (p. 89-115). Part A represents continuous-record stations and includes information on the station, as well as discharge statistics and water-quality data. Part B includes water-quality data for each site and only brief site information.

Part A provides a description of each continuous-record station (location and drainage area), followed by (1) water-discharge records, and (2) water-quality records. The water-discharge records include the following information: period of record; type of gage; remarks on record accuracy and other factors pertinent to station operation and regulation; cooperating agencies; and historical extremes (for 1989-93 and for the station's period of record). This information is followed by a table of statistics on monthly mean discharge for water years 1989-93 and a table of summary statistics for the 1992 calendar year, the 1993 water year and water years 1989-93. A graph of monthly mean discharge for 1989-93 is included for each continuous-record station.

Part B (water-quality records) provides information on the period of record for each station, the years for which chemical data are given, and in parentheses, a letter designating the sampling frequency for those years (defined on p. 25); it also includes cooperating agencies and may include remarks. The tables of water-quality are given by water year.

The headings and the types of information provided for each continuous-record station are as follows:

Location.--Information on location is obtained from topographic maps (usually 1:24,000 scale). The location of the gage is given with respect to the cultural and physical features in the vicinity and the reference place mentioned in the station name. River mileage, given for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies.

Drainage Area.--Drainage areas are measured from topographic maps (usually 1:24,000 scale). Because the types of maps available differ from one drainage basin to another, the accuracy of the drainage areas likewise varies. Drainage-area values are updated as revised maps become available.

Period of Record.--Identifies the period for which published records for the station (or an equivalent station) are available.

Revised Records.--Published records are occasionally revised in light of new information. Listed under this heading are all reports in which revisions for the station have been published, and the water years for which revisions apply. If a revision did not include daily, monthly, or annual discharge figures, that fact is noted after the year dates as follows: (M) means that only the instantaneous maximum discharge was revised; (m) that only the instantaneous minimum was revised; and (P) that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised value was first published is cited.

Gage.--Under this heading are listed the type of gage in use, the datum of the current gage above mean sea level, and a condensed history of the types, locations, and datum of previous gages.

Remarks.--This paragraph gives information on the accuracy of the records, special methods of computation, conditions that affect natural flow at the station, and other pertinent items. The accuracy of the records for some stations varies from year to year; where this occurs a general statement explains the accuracy for the 5 years represented in this report, and a statement at the top of the table for each water year describes the accuracy of that year's data.

Cooperation.--Records provided by a cooperating organization or obtained for USGS by a cooperating organization are identified here.

Extremes For Period.--This paragraph includes information on extremes that occurred from the beginning of the period of record until the record was either discontinued, or until September 1993 (the end of the period covered in this report). Extremes include maximum and minimum stages and maximum and minimum discharges. Unless otherwise qualified, the maximum discharge is the instantaneous maximum corresponding to the highest stage recorded on a stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day

as the maximum discharge, it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified.

Extremes Outside Period Of Record.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS or by other agencies.

Statistics of Monthly Mean Discharge Data.- The preceding information is followed by a table titled "Statistics of monthly mean discharge for water years 19__-__, by water year," which lists mean, maximum, and minimum values for each month, for the period designated. The two lines headed (WY) immediately below the MAX and MIN lines indicate the water year of the first occurrence of the maximum and minimum monthly flows. The period for which data are given (designated in the table heading) includes all partial water years, if any. The water years for which the statistics are computed are consecutive unless a break in the station record is indicated in the heading.

Summary Statistics.- A second table, "Summary Statistics," gives values for several statistics, such as annual, daily, and instantaneous discharges, for the designated period. This table contains three columns for each statistic: the first lists the values for the calendar year preceding the last water year of the designated period; the second lists values for the last water year of the designated period, and the third lists values for the entire designated period. The third column also indicates all of the station record within the specified water years, including complete months of record for partial water years, if any; this period may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive unless a break in the station record is indicated in the general information for that station. All calculations for the statistical characteristics in rows designated ANNUAL (See line headings below), except the "ANNUAL 7-DAY MINIMUM" statistic, are done for the designated period and are based on complete water years. Calculations of the other characteristics may be based on partial water years.

The date or water year (as appropriate) of each statistic reporting extreme values of discharge is provided adjacent to the statistic. In some instances, these extremes may occur on more than one date or year. These repeated occurrences are identified with a letter symbol and printed in the footnotes. Because the designated period may not be the same as the station period of record published in the heading, the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not always be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following types of data listed in the summary statistics column, are provided with each continuous record of discharge. The row headings of the summary statistics table are defined as follows;

Annual Total.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

Annual Mean.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations, the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

Average Discharge.--This is the discharge value given to the arithmetic mean of the water-year mean discharges. It is computed for stations having at least 5 water years of complete record.

Highest Annual Mean.--The maximum annual mean discharge occurring for the designated period.

Lowest Annual Mean.--The minimum annual mean discharge occurring for the designated period.

Highest Daily Mean.--The maximum daily mean discharge for the year or for the designated period.

Lowest Daily Mean.--The minimum daily mean discharge for the year or for the designated period.

Annual 7-Day Minimum.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The data shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Instantaneous Peak Flow.--The maximum instantaneous discharge occurring for the water year or for the designated period.

Instantaneous Peak Stage.--The maximum instantaneous stage occurring for the water year or

for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

Instantaneous Low Flow.--The minimum instantaneous discharge occurring for the water year or for the designated period.

Annual Runoff.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 Percent Exceeds.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 Percent Exceeds.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 Percent Exceeds.--The discharge that has been exceeded 90 percent of the time for the designated period.

Accuracy and Precision of Records

The accuracy of the streamflow records depends primarily on (1) the stability of the stage-to-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of stage observations, discharge measurements, and records interpretations. The accuracy attributed to the records for each station is indicated in the "REMARKS" paragraph of each station description. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true discharge; "good," means that about 95 percent are within 10 percent; and "fair," means that about 95 percent are within 15 percent, and "poor" means that the daily discharges have less than fair accuracy.

Chemical Quality

This report presents chemical-quality data from eight continuous-record streamflow-gaging stations and eight partial-record and miscellaneous-record sites. The water-quality records for the eight continuous-record streamflow-gaging stations follow the summary streamflow data for that site. Station number and name are the same for both records unless the water-quality-site location differs significantly from that of the streamflow station, in which case the water-quality site is given a separate number and name in the downstream-order sequence.

Water samples are generally collected as close to streamflow-gaging stations as possible because streamflow data are essential to the interpretation of water-quality data. Each streamflow-gaging station in the Irondequoit Creek basin was visited two or three times each week. Samples were collected hourly at all sites by automatic sampler and combined into flow-related composite samples during storms. Samples from Blossom Road and Empire Boulevard also were combined into 2-to-4 day baseline composite samples two or three times per week; samples from the other six sites were combined into 2-to-4 day baseline composite samples at least once monthly. The records of surface-water quality presented herein generally include physical properties, such as turbidity and dissolved solids, and chemical constituents, such as nitrogen and phosphorus species and common ions such as chloride and sulfate.

Continuing-Record[1] and Partial-Record Stations

Each surface-water-quality site is classified as either (1) a *continuing-record station*—a site at which data are collected on a regular schedule, such as once or more daily, weekly, monthly, or quarterly, or (2) a *partial-record station*—a site at which limited water-quality data are collected systematically over a period of years, usually less than quarterly. All stations represented in this report are in the *continuing-record* category; their locations are shown in figure 2.

Field and Laboratory Methods

Carefully prescribed procedures were followed in the collection and processing of the samples and in preservation of the samples to minimize chemical or physical changes between time of collection and analysis, to ensure that analytical results obtained in the laboratory accurately reflected the in-stream chemistry of

[1]"Continuing record" differs from "continuous record," which refers to a continuous graph or a series of discrete values recorded at predetermined intervals.

the water. Procedures for collecting, treating, and transporting samples are given in Britton and Greeson (1989), Goerlitz and Brown (1972), Guy and Norman (1970), Skougstad and others (1979), and Wood (1976).

Most of the samples reported herein were collected by automatic samplers. Automatic samplers are capable of collecting either discrete or composite samples. Discrete samples are collected at a particular instant and assumed to represent only the water quality at that time, whereas composite samples consist of two or more discrete samples collected and combined over a period of time, such as several hours or days, to reflect average water-quality conditions for that period. The limitation of automatic water samplers is that they collect the sample from only one point in the stream cross section. Although a sample from a single point in the stream can adequately define the water quality for that time if the water is homogeneous, variations in turbulence can cause uneven mixing and result in local differences in the concentration of solutes throughout the cross section, depending on rate of flow and the source of the solutes. For this reason, placement of the automatic sampler intake in the stream cross section is occasionally checked for representativeness. (See Quality Assurance/Quality Control section, further on, for detailed information.)

Chemical-quality data published herein are considered to be the most representative values available for the stations listed, and they describe, as closely as possible within the limits of available sampling techniques and methods of analysis, the water-quality conditions at the time of sampling.

MCEHL analyzed all samples using analytical methods described in American Public Health Association (1985). Some samples were split into two parts, one of which was sent to the USGS National Water-Quality Laboratory (NWQL) at Denver, Colo., for analysis as part of the QA/QC program.

Data Format

The water-quality table for each station are given by water year. Each table of chemical data is preceded by a station description, which includes information pertinent to the history of station operation, including location, drainage area, period of record, type of data available, instrumentation, general remarks, and cooperation. If the location is identical to that of the discharge-gaging station, neither the *Location* nor the *Drainage Area* statements are repeated. The headings and types of information provided under each are explained below.

Location.--Information on locations is obtained from the most accurate maps available. The location of the gage is given with respect to the cultural and physical features in the vicinity and to the reference place mentioned in the station name. River mileage, given for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies.

Drainage Area.--Drainage areas are measured in square miles from USGS topographic maps. Because the types of maps available differ from one drainage area to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as revised maps become available.

Period Of Record.--This statement indicates (1) the periods for which published water-quality records for the station are available, (2) the categories of data to which these records pertain (chemical, minor elements, organic compounds, nutrients, and biological constituents), and (3) the amount of data available, as specified by the following letter codes:

(a) 1 or 2 samples per year
(b) 3 to 5 samples per year
(c) 6 to 9 samples per year
(d) 10 to 20 samples per year
(e) more than 20 samples per year

For example, "CHEMICAL DATA: 1972-74(c), 1977-82(a)." indicates from 6 to 9 analyses for each year for the first 3 years of record, no data for this category in 1975 and 1976, and one or two samples for each of the 6 additional years.

Instrumentation.--Information on instrumentation is given only if a water-quality monitor or other automatic sampling device is in operation at the station.

Remarks.--Remarks provide added information pertinent to the collection, analysis, or computation of the records. The following remark codes appear in the water-quality tables:

K results based on colony count outside the ideal range (nonideal colony count);
E estimated value;
> actual value known to be greater than value shown;
< actual value known to be less than value shown;
N presumptive evidence of presence of material.

Cooperation.--Records provided by a cooperating organization or obtained for USGS by a cooperating organization are identified here.

Tables of chemical, physical, biological data, and so forth that were obtained at a frequency less than daily at each station follow the information on station history.

Chemical Data.--Generally include most of the major ions and some of the following physical properties: specific conductance, pH, temperature, color, turbidity, dissolved oxygen.

Nutrient Data.--Constituents containing nitrogen or phosphorus. Analytical results usually include several of the following species: nitrite plus nitrate, phosphorus, ammonia nitrogen, organic nitrogen, and ammonia plus organic nitrogen.

Ground Water

Ground-water records consist of water-level measurements made in observation wells, analyses of water samples collected quarterly from these wells, and seasonal water-temperature profiles based on measurements made at successive depths. Ground-water records are presented by locality in order of latitude and longitude. (See fig. 9.) Locations of observation wells are shown in figure 2.

Latitude-Longitude Identification System

The well-identification and precipitation-station numbers are based on the grid system of latitude and longitude. The number consists of 15 digits; the first six denote the degrees, minutes, and seconds of latitude, and the next seven denote degrees, minutes, and seconds of longitude. The last two digits (assigned sequentially) identify the wells or precipitation gages within a 1-second grid (fig. 9).

Field and Laboratory Methods

Water levels were measured in 15 wells in the Irondequoit Creek Basin, 3 wells in Powder Mill Park, 11 wells in Ellison Park, and 1 well (Mo 659) on the eastern boundary of Ellison Park and on the north side of the Pinnacle Hills Moraine (fig. 2). Water temperatures were measured at successive depths in the Powder Mill and Ellison Park wells to obtain water-temperature profiles that can be used as an indicator of (1) similar (or dissimilar) stratigraphy by their shape and spread, and (2) anomalous features, by any sudden change in temperature with depth. The seasonal temperature profiles can also provide an estimate of aquifer permeability (Lapham, 1989). Water samples were collected from the Powder Mill and Ellison Park wells for comparison of ground-water quality in differing parts of the aquifer system. The procedures used are discussed in the following paragraphs.

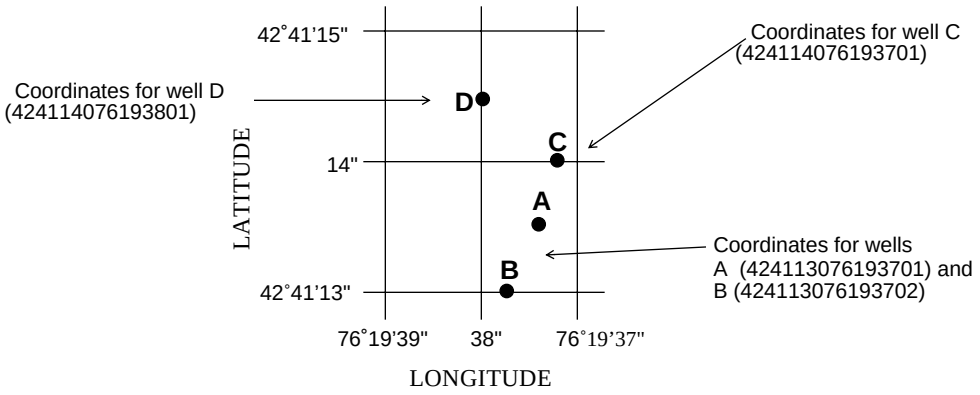


Figure 9. Latitude and longitude system for well numbering.

Water Levels

Water-level records are taken from direct measurements made with a weighted steel tape and recorded in feet below land-surface datum, a datum plane that approximates land surface at each well. Water levels in wells are measured periodically (usually monthly) and are recorded to the nearest hundredth of a foot. Each well description herein includes the land-surface datum above mean sea level and the height of the measuring point above or below land-surface datum.

Water Temperature

Water temperature is measured seasonally in most wells at various depths with a temperature probe. The depth intervals between measurements range from 1 ft to about 3 ft, and temperatures are recorded to the nearest hundredth of a degree Celsius.

Chemical Quality

Water samples were collected quarterly from 15 wells in the Irondequoit Creek basin during 1989-93. All samples were collected with a peristaltic pump. At least three casing volumes of water were removed to purge the well before sampling, and the water level was then allowed to recover before sample collection to ensure that samples would be representative of fresh aquifer water, not water that had been standing in the well.

Results of the chemical analyses document the water quality of the aquifer system and indicate temporal and areal differences in the quality of water within the aquifer, as well as areas that may be affected by contamination. Ground-water samples were analyzed for specific conductance, pH, and concentrations of common ions, nutrients, metals, dissolved solids, alkalinity, and hardness. These constituents generally provide an indication of the general water quality of an aquifer.

Data Format

Ground-water data from 3 wells in Powder Mill Park, and 12 wells in Ellison Park, are presented; these data include water levels, temperature, and chemical quality.

Each well record consists of four parts—the well description, a table and graph of water levels measured during 1989-93, chemical analyses for each water year, and a table and depth profile of water temperature. The well description includes such information as location, aquifer, well characteristics and instrumentation, datum, period of record, historical extremes, and remarks giving other pertinent information. The headings used in the well descriptions are explained below.

Location.--Gives the latitude and longitude (in degrees, minutes, and seconds); the hydrologic unit number; the distance and direction from a geographic point of reference; and the owner's name.

Aquifer.--Identifies by name (if a name exists) and geologic age of the aquifer(s) open to the well.

Well Characteristics.--Describes the depth, diameter, casing depth and(or) screened interval, method of construction, and use of the well, and additional information such as casing breaks, collapsed screen, and other changes since construction.

Instrumentation.--Describes frequency of measurements and the method used.

Datum.--Describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of land-surface datum is described in feet above mean sea level; precision depends on the method of determination.

Remarks.--Describes factors that could affect the water level in a well or the measurement of the water level and identifies wells that also are water-quality observation wells; it also acknowledges the assistance of local (non-USGS) observers.

Period of Record.--Identifies the period(s) for which published records are available.

Extremes For Period.--Indicates the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

The second part of the well record is a table that lists water levels for each of the water years, in feet above or below land-surface datum and the measurement dates. A hydrograph of water levels for the period of record follows the water-level tables. The annual water-level tables and hydrograph for each well are followed by the water-quality tables. The fourth part of the well record is table of water-temperatures and a water-temperature profile to allow a visual comparison of seasonal patterns.

Precipitation Quantity and Quality

Precipitation-quantity data were collected at four sites, three of which are in the Irondequoit Creek basin, and one (Mendon Ponds) just southwest of the Irondequoit Creek basin, in the Genesee River basin near the drainage divide. Precipitation-quality data were collected at Mendon Ponds and at two other sites— one in the western Monroe County at SUNY Brockport, and one at Empire Boulevard near Rochester.

Methods

Total precipitation at the three Irondequoit sites was measured with a precipitation-collection tube with float and counterweight whose values were coded at 15-minute intervals by punched-tape recorders. The positive difference between two successive readings was computed and recorded as the total precipitation for that 15-minute interval. The 96 values of 15-minute data were summed to give the total daily precipitation value, which was subsequently entered into the WATSTORE data-storage system and is presented here.

Precipitation at the Mendon Ponds site was recorded continuously on a strip chart from a weighing-bucket rain gage. A bulk collector and a wetfall/dryfall sampler were used to collect composite samples. The dryfall (or dustfall) container was removed monthly for analysis of the contents, and the wetfall container was removed and the contents analyzed after selected storms. MCEHL collected and analyzed these samples in accordance with procedures outlined by USGS.

Data Format

The precipitation records herein consist of (1) a site description, (2) a table of total daily precipitation values by water year, (3) precipitation-quality data, which include chemical analyses of dustfall, wetfall, and bulk deposition for each water year.

The site descriptions include information on location, period of record, annual maximum, and equipment and remarks giving other pertinent information. The used in the site descriptions are as follows:

Location.--Information on locations is obtained from USGS topographic maps. The location of the gage is given with respect to the cultural and physical features in the vicinity and to the reference place mentioned in the station name.

Period of Record.--This indicates the period for which published precipitation or atmospheric-quality records for the station are available.

Equipment.--Describes the type of equipment used at the site, the type of data collected by each, and the location of the equipment with respect to ground level.

Remarks.--Provides added information pertinent to the collection, analysis, or computation of the records.

The site description for each precipitation gage is followed by a table of total daily precipitation values by water year, with monthly and yearly summaries. The "TOTAL" line for each water year gives the sum of the daily figures for each month.

The chemical data are presented in order of monthly dustfall, monthly wetfall, and, if available, monthly composite.

QUALITY ASSURANCE/QUALITY CONTROL

Much of the data presented in this report were collected and analyzed by MCEHL, whose responsibilities included completion of most of the discharge measurements at stations with established ratings, monthly inspections at all sites, removal of recorded data, and collection and laboratory analysis of water samples. A Quality-Assurance/Quality-Control (QA/QC) program is an integral part of this cooperative data-collection effort to ensure that the data meet standards for publication set by the USGS. The basic QA/QC protocol devised for the NURP study (Zarriello and others, 1984; Kappel and others, 1986) has continued and been extended under the USGS-MCEHL cooperative program. The program contains two parts: (1) streamflow measurements, and (2) water-quality samples. The procedures and guidelines used in the QA/QC program are summarized below.

Streamflow Measurements

General guidelines and procedures accepted by the USGS for gaging streams (Carter and Davidian, 1968) were followed throughout the period represented by this report. More detailed procedures were followed in regard to specific phases of data collection, which include stage measurement at gaging stations (Buchanan and Somers, 1968) and discharge measurement by current meter (Buchanan and Somers,

1969). Interpretation of the data by USGS staff followed recommended procedures and include stage-to-discharge rating development (Kennedy, 1984) and computation of records for publication (Kennedy 1983). These topics are also covered in Rantz and others (1982, v. 1 and 2).

The USGS provides further quality control of the streamflow data-collection efforts of MCEHL by (1) monthly review of stream-discharge measurements and equipment-inspection notes, and (2) semiannual onsite inspections of gaging facilities and completion of discharge measurements. These semiannual discharge measurements, which check the validity of the rating developed for that particular year, have consistently indicated that discharge measurements made by MCEHL fully meet USGS standards. In addition, USGS personnel make additional discharge measurements for the first year after the establishment of a new gaging station.

Water-Quality Samples

The QA/QC program for water-quality samples includes sample collection and laboratory analysis. Continuing-record water samples are collected from a single point in the stream at surface-water sites by automatic sampler. Part of this program is designed to determine whether these samples are representative of water quality throughout the stream cross section; the program also is designed to ensure that laboratory analysis of water samples by MCEHL meet standards for publication set by USGS. This is done by two procedures: (1) split-sample collection and analysis, and (2) participation in the USGS Standard Reference Water-Sample (SRWS) program. All aspects of the QA/QC procedures for water-quality samples are evaluated by statistical methods and are discussed more fully in the following sections.

Statistical Methods

A paired *t* test was used to compare mean differences between (1) constituent concentrations in the split samples analyzed by the USGS Central Laboratory and those analyzed by MCEHL, and (2) samples collected by hand and those collected by automatic sampler. A paired *t* test uses the difference method to test the null hypothesis that the mean difference between the two sample groups is zero. If the calculated *t* statistic is greater than the *t* statistic from the *t* distribution table for a particular confidence level and number of degrees of freedom, then the null hypothesis is rejected, and a difference is indicated between the two groups of data, with a less than 5-percent (95-percent confidence level) chance that the difference is due to random causes. If the *t* statistic is less than that found in the table, the null hypothesis is not rejected and indicates a chance of less than 5 percent that the means are different.

The data were tested for bias to determine whether constituent concentrations in samples collected by the automatic sampler were consistently high or low. The mean bias (in percent) was calculated from the equation:

$$\text{Bias} = \frac{C_a - C_b}{C_b} \times 100$$

where:

C_a = concentrations either in samples taken from the automatic sampler or determined by MCEHL, and

C_b = concentrations in samples collected by hand from the stream cross section or determined by the USGS laboratory.

A *t* test was then done on the mean bias to determine significance at the 95-percent confidence level. Statistical methods used are outlined in Friedman and Erdmann (1982).

Statistical analysis of the sample results, discussed in some detail below, indicate some significant differences, as well as instances of bias, but the results are considered inconclusive because only a small number of split samples were involved in the analysis.

Split Samples

The split samples collected by Monroe County were used to (1) compare concentrations of constituents in samples collected by the automatic sampler with those collected by hand from the stream cross section, and (2) assess any differences in analytical results between MCEHL and the USGS Central Laboratory. Split samples are samples divided into equal parts to obtain a statistical comparison of analytical results.

Part of the QA/QC protocol is designed to determine whether samples collected by the automatic sam-

plers are representative of water quality throughout the stream cross section. Periodically at each site, depth-integrated cross-sectional samples were collected from the stream, while the automatic sampler was induced to take samples. The results of the analysis of the two sets of samples were then compared to detect any systematic bias in samples collected by the automatic sampler.

Six cases showed a statistically significant difference between mean concentrations in samples collected by the automatic sampler and those collected by hand (table 4). In all but one of those cases, mean concentrations in samples collected by the automatic sampler were higher than those collected by hand. Mean concentrations of total phosphorus were significantly higher in samples collected by the automatic sampler at the new Irondequoit Creek site above Blossom Road (On October 1, 1991 the Blossom Road site was moved several hundred feet upstream because of bridge construction) on July 20, 1993 and at Irondequoit Creek at Empire Boulevard on July 29, 1992. Mean concentrations of dissolved ammonia plus organic nitrogen were higher in automatic samples collected at Irondequoit Creek near Pittsford on June 20, 1989, and at the upstream (new) Blossom road site on September 18, 1991. Nitrite plus nitrate was significantly higher in samples collected by the automatic sampler at Blossom road (old site) on June 20, 1989. The only case wherein the automatic sampler produced a lower concentration was in a total phosphorus result from a sample collected at the (new) Blossom road site on July 29, 1992. Wherever a statistically

Table 4. Statistical analysis of split samples collected to assess representativeness of samples collected by the automatic sampler.

[DKN, dissolved ammonia plus organic nitrogen; TKN, total ammonia plus organic nitrogen; NOx, nitrite plus nitrate; TP, total phosphorus; Hand, samples collected from stream using depth integrated equal width increment method; Auto, automatic sampler; locations are shown in fig. 2]

			Paired t-test on differences					t-test on bias			
			Number of pairs	Mean values			Test			Number of pairs	Test
Site	Date	Consti-tuent	(n)	Hand	Auto	Mean diff.	statistic (*t*)	Mean bias	Standardd eviation	(n)	statistic (*t*)
Irondequoit Creek near Pittsford, NY	6-20-89	DKN	8	0.561	0.738	-0.177	-2.493*	30.61	32.78	8	2.642*
		NOx	8	0.874	0.863	0.011	2.183	-1.270	1.658	8	-2.166
	8-21-90	DKN	4	0.425	0.400	0.025	1.000	-5.000	10.00	4	-1.414
		NOx	4	1.300	1.300	0	0	0	0	4	0
Irondequoit Creek at Blossom Rd. (old site)	6-20-89	DKN	8	0.783	0.719	0.064	0.635	-4.168	33.53	8	-0.352
		NOx	8	1.225	1.300	-0.075	-4.583*	6.250	3.858	8	4.582*
	8-21-90	DKN	4	0.325	0.325	0	0	4.167	47.87	4	0.174
		NOx	4	0.900	0.900	0	0	0	0	4	0
	9-18-91	DKN	8	0.550	0.433	0.117	1.817	-17.66	24.34	8	-2.047
		NOx	8	0.686	0.700	-0.014	-1.429	2.098	4.057	8	1.463
Irondequoit Creek at Empire Blvd.	7-29-92	TKN	4	0.475	0.425	0.050	1.732	-10.00	11.55	4	-1.732
		NOx	4	1.000	1.000	0	0	0	0	4	0
		TP	4	0.043	0.053	-0.010	-2.449*	27.92	28.00	4	2.418*
	7-20-93	TKN	3	0.837	0.830	0.007	0.068	0.460	19.43	3	0.041
		TP	3	0.120	0.123	-0.003	-1.000	2.778	4.811	3	1.000
	10-20-93	TKN	8	0.479	0.541	-0.062	-0.959	25.32	60.15	8	1.191
		TP	8	0.035	0.032	0.003	0.886	10.98	58.62	8	0.530
Irondequoit Creek above Blossom Rd. (new gage site)	9-18-91	DKN	8	0.434	0.697	-0.263	-3.074*	78.04	68.24	8	3.235*
		NOx	8	0.714	0.714	0	0	-0.044	1.673	8	-0.074
	7-29-92	TKN	4	0.425	0.400	0.025	1.000	-5.000	10.00	4	-1.000
		NOx	4	1.100	1.100	0	0	0	0	4	0
		TP	4	0.043	0.022	0.021	4.899*	-45.83	8.333	4	-11.00*
	7-20-93	TKN	3	0.650	0.793	-0.143	-0.959	25.35	43.34	3	1.013
		TP	3	0.072	0.100	-0.028	-17.00*	39.68	5.499	3	12.50*

* differences are statistically significant at the 95 percent confidence level.

significant difference in constituent concentration between samples collected by the automatic sampler and those collected by hand was detected, a statistically significant bias also was noted.

A paired *t* test was also used to statistically compare constituent concentrations determined by MCEHL with those determined by USGS. Of the split samples collected on September 18, 1991, only nitrite plus nitrate showed a statistically significant difference in concentration between the two laboratories (table 5). In samples collected on October 20, 1993, total ammonia plus organic nitrogen and total phosphorus showed a significant difference in concentration between the two laboratories. Samples collected for laboratory comparison were not tested for bias.

Standard Reference Water-Sample Program

As part of USGS quality-assurance program for cooperating laboratories, MCEHL was required to participate in a standard reference water-sample (SRWS) program. Under this program, the USGS Central Laboratory submits reference samples (major constituents, trace constituents, and nutrients) twice yearly to laboratories that analyze water samples as part of a cooperative program. The analytical results from all participating laboratories are sent to the USGS Central Laboratory and analyzed statistically to determine the "most probable value" (MPV) for each constituent. Each laboratory's results are then compared against the MPV and rated (table 6) by increments of standard deviation from the MPV.

Table 5. Statistical analysis of split samples collected for laboratory comparison.
[USGS = U. S. Geological Survey; MCEHL = Monroe County Environmental Health Laboratory; DKN = Dissolved ammonia plus organic nitrogen; NOx = nitrite plus nitrate; TKN = total ammonia plus organic nitrogen; TP = total phosphorus]

		Paired t-test on differences					
			Mean Values				
Date	Constit -uent	Number of pairs (n)	USGS	MCEHL	Mean difference	Test statistic (*t*)	Significant at 95%
6-20-89	DKN	16	0.744	0.656	0.088	1.577	no
	NOx	16	1.062	1.068	-0.006	-0.570	no
9-18-91	DKN	16	0.612	0.519	0.093	0.941	no
	NOx	16	0.686	0.721	-0.035	-3.075	yes
10-20-93	TKN	20	0.315	0.611	-0.296	-9.267	yes
	TP	20	0.018	0.042	-0.024	-7.765	yes

Table 6. Rating of cooperating laboratory's analysis of U.S. Geological Survey standard reference water samples.
[First number is rating, explained in footnote. Numbers in parentheses are the number of constituents analyzed in each group.]

	Constituents					
Date	Trace elements	Major ions	Nutrients	Precipitation	Mercury	All constituents
Aug. 89	2.47 (17)	3.46 (13)	3.50 (6)	2.29 (7)	4.00 (1)	3.18 (44)
Jan. 90	2.33 (18)	2.92 (13)	3.83 (6)	2.80 (10)	--	2.85 (52)
Jul. 90	3.1 (15)	3.6 (13)	3.3 (11)	3.1 (10)	4.0 (1)	3.3 (51)
Feb. 91	2.5 (15)	3.5 (12)	3.2 (22)	3.1 (10)	--	3.1 (59)
Sept. 91	2.3 (18)	3.0 (13)	3.6 (14)	3.3 (9)	4.0 (1)	3.0 (56)
Oct. 92	2.0 (15)	3.7 (13)	3.7 (18)	3.1 (8)	3.0 (1)	3.1 (55)
Apr. 93	2.6 (28)	2.7 (13)	3.8 (18)	--	--	3.0 (59)

Rating system:

4 excellent - 0.00 to 0.50 standard deviation from most probable value (MPV).
3 good - 0.51 to 1.00 standard deviation.
2 satisfactory - 1.01 to 1.50 standard deviations.
1 questionable - 1.51 to 2.00 standard deviations.
0 poor - < 2.00 standard deviations.

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DATA FROM SURFACE-WATER, GROUND-WATER, AND PRECIPITATION STATIONS IN MONROE COUNTY

Surface-Water Stations

[Letter after station name designates type of data: (d) discharge, (e) gage height, (c) chemical, (b) biological, (t) water temperature, (s) sediment, (p) precipitation.]

NAME	STATION NUMBER	Page
Northrup Creek at North Greece (dc)	0422026250	33
Irondequoit Creek at Railroad Mills, near Fishers, N.Y. (dc)	04232034	40
Irondequoit Creek near Pittsford, N.Y. (dc)	04232040	43
Thomas Creek at Fairport, N.Y. (dc)	04232046	47
East Branch Allen Creek at Pittsford, N.Y. (dc)	0423204920	50
Allen Creek near Rochester, N.Y. (dc)	04232050	55
Irondequoit Creek above Blossom Road, Rochester (dc)	0423205010	62
Irondequoit Creek at Empire Boulevard, Rochester, N.Y. (dc)	0423205025	77

Miscellaneous and Partial-Record Stations

Genesee River at Charlotte Pump station, at Rochester	431510077363501	89
Cartersville Waste Channel at Pittsford, N.Y.	430449077294201	103
E. Br. Allen Creek above Erie Canal Siphon nr Pittsford, N.Y	430526077315201	105
E. Br. Allen Creek below Erie Canal Siphon nr Pittsford, N.Y	430526077315202	107
E. Br. Allen Creek Erie Canal Siphon nr Pittsford, N.Y	430526077315203	109
Allen Creek below Erie Canal Siphon nr Rochester, N.Y	430557077344402	111
Allen Creek at Erie Canal Siphon nr Rochester, N.Y	430557077344403	113
Fairport Waste Channel at Fairport, N. Y.	430605077262201	115

Ground-Water Stations

[Letter after station identification designates type of data: (e) water level, (c) chemical, (t) water temperature]

Powder Mill Park Mo 10 (ect)	430252077283401	116
Powder Mill Park Mo 11 (ect)	430252077283402	123
Powder Mill Park Mo 12 (ect)	430249077284501	130
Ellison Park Mo 1 (ect)	430855077304201	138
Ellison Park Mo 2 (ect)	430855077304202	142
Ellison Park Mo 3 (ect)	430854077304601	150
Ellison Park Mo 4 (ect)	430854077304901	156
Ellison Park Mo 5 (ect)	430855077305201	160
Ellison Park Mo 6 (ect)	430855077305202	163
Ellison Park Mo 659 (ect)	430932077311501	166
Ellison Park Mo 663 (ect)	430912077313301	171
Ellison Park Mo 664 (ect)	430912077313302	175
Ellison Park Mo 665 (ect)	430928077313802	179
Ellison Park Mo 667 (ect)	430928077314001	183
Ellison Park Mo 668 (ect)	430928077314002	187

Precipitation Stations

[Letter after station identification designates type of data: (p) precipitation, (c) chemical]

At Mendon Ponds (pc)	430117077350101	191
At Empire Boulevard (c)	431021077315902	205
At SUNY Brockport (c)	431248077564601	207
Near Pittsford (p)	430315077292801	212
At Fairport (p)	430622077274401	215
At Blossom Road (p)	430850077304801	217

0422026250 Northrup Creek At North Greece, N.Y.

LOCATION.--Lat 43˚15'13", long 77˚43'33", Monroe County, Hydrologic Unit 04130001, on right bank 75 ft downstream from bridge on State Highway 18 (Latta Road), 0.5 mi west of North Greece and 5.1 mi upstream from mouth.

DRAINAGE AREA.--11.7 mi^2.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 306 ft above sea level, from topographic map.

REMARKS.--Records fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health.

COOPERATION.--Gage-height record and 9 discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD August 1989 to September 1993.--Maximum discharge, 573 ft^3/s, Apr 22, 1991, gage height, 3.89 ft, minimum discharge, 0.39 ft^3/s, Aug. 19, 26, 27, 1993.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 758 ft^3/s, May 17, 1974, from rating curve extended above 15 ft^3/s on basis of contracted-opening measurement of peak flow.

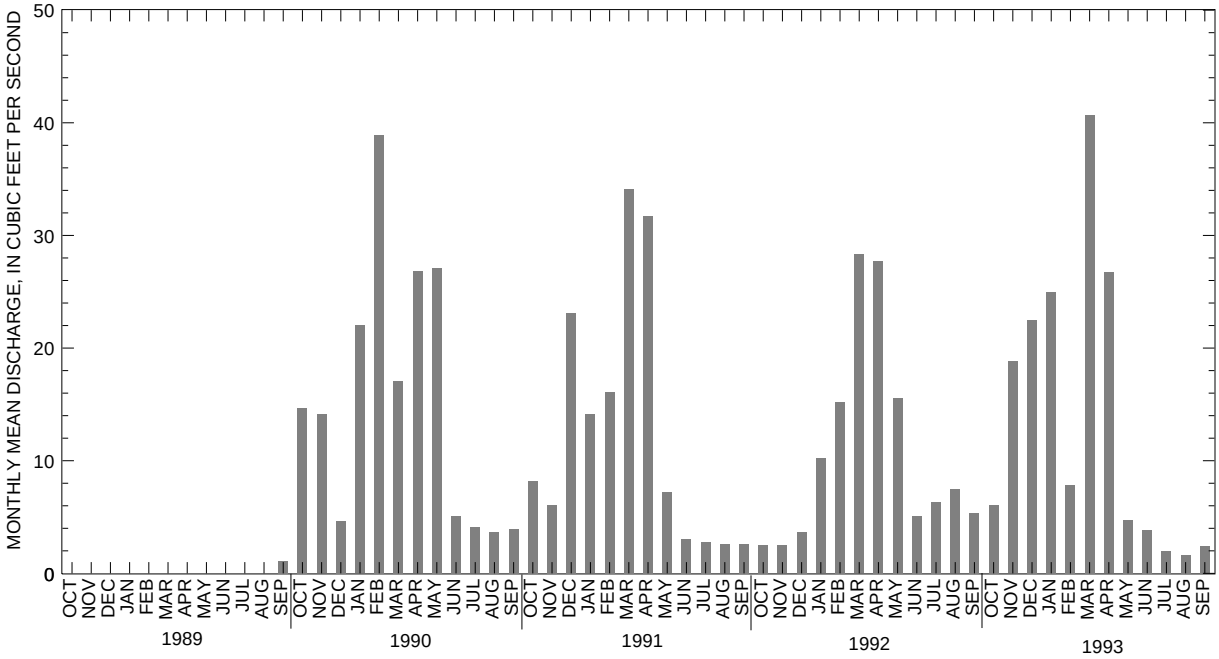
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1989-93, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.88	10.4	13.5	17.8	19.5	30.0	28.2	13.6	4.28	3.79	3.82	3.08
MAX	14.7	18.8	23.1	25.0	38.9	40.7	31.7	27.1	5.12	6.31	7.43	5.33
(WY)	1990	1993	1991	1993	1990	1993	1991	1990	1990	1992	1992	1992
MIN	2.54	2.49	3.65	10.2	7.82	17.1	26.7	4.77	3.06	1.96	1.60	1.10
(WY)	1992	1992	1992	1992	1993	1990	1993	1993	1991	1993	1993	1989

SUMMARY STATISTICS

STATISTIC	FOR 1992 CALENDAR YEAR		FOR 1993 WATER YEAR		WATER YEARS 1989 - 1993	
ANNUAL TOTAL	5138.9		4954.8			
ANNUAL MEAN	14.0		13.6			
AVERAGE DISCHARGE					13.0	
HIGHEST ANNUAL MEAN					15.0	1990
LOWEST ANNUAL MEAN					10.8	1992
HIGHEST DAILY MEAN	266	Mar 27	229	Apr 1	420	Apr 22 1991
LOWEST DAILY MEAN	2.0	Jul 2	1.1	Aug 19	.89	Aug 18 1989
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 12	1.4	Aug 22	1.0	Aug 18 1989
INSTANTANEOUS PEAK FLOW			327	Apr 1	573	Apr 22 1991
INSTANTANEOUS PEAK STAGE			3.11	Apr 1	3.89	Apr 22 1991
INSTANTANEOUS LOW FLOW			.39	a	.39	a
ANNUAL RUNOFF (CFSM)	1.20		1.16		1.11	
ANNUAL RUNOFF (INCHES)	16.34		15.75		15.10	
10 PERCENT EXCEEDS	27		26		24	
50 PERCENT EXCEEDS	8.5		7.0		6.4	
90 PERCENT EXCEEDS	3.5		1.7		2.0	

a Aug 19, 26, 27, 1993.



0422026250 Northrup Creek At North Greece, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1989 to current year.
CHEMICAL DATA: 1989-95 (e).
NUTRIENT DATA: 1989-95 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990														
OCT														
01-03	0800	0700	15	11	452	--	--	0.02	0.54	0.60	0.220	0.125	39	61
13-14	0935	2035	14	1.8	407	--	--	0.01	0.36	0.74	0.160	0.120	26	45
14-15	2135	2035	16	6.0	412	--	--	0.01	0.79	0.86	0.260	0.130	29	47
15-16	2135	2035	14	3.1	426	--	--	0.01	0.38	0.62	0.180	0.135	28	47
16-17	2135	0835	14	2.7	411	--	--	0.01	0.41	0.55	0.200	0.150	27	45
17-18	0745	0645	16	4.4	409	--	--	0.02	0.56	0.59	0.200	0.150	29	47
18-19	0745	0645	14	5.3	433	--	--	0.02	0.48	0.69	0.200	0.155	32	48
19-20	0745	0645	15	5.3	455	--	--	0.02	0.65	0.75	0.190	0.155	32	54
20-22	1000	0900	17	8.0	456	--	--	0.02	0.82	0.90	0.240	0.145	37	57
22-24	1000	0900	14	3.4	453	--	--	0.06	0.40	0.81	0.180	0.145	36	55
NOV														
06-07	0755	1555	13	1.9	452	--	--	0.32	0.73	0.70	0.220	0.170	36	53
07-08	1655	1555	17	6.0	434	--	--	0.29	1.0	0.79	0.230	0.160	34	49
08-09	1655	0655	15	3.4	509	--	--	0.27	1.1	0.84	0.190	0.145	42	56
09-10	0800	1500	15	1.8	480	--	--	0.22	0.77	0.80	0.180	0.145	41	54
10-11	1600	2300	15	2.2	514	--	--	0.17	0.67	0.85	0.170	0.135	43	60
11-13	2400	0700	--	2.5	516	--	--	0.16	0.62	0.87	0.180	0.145	43	64
13-15	0800	2200	13	1.8	480	--	--	0.05	0.40	0.79	0.220	0.120	39	60
15-16	2300	0700	13	2.8	524	--	--	0.06	0.41	0.94	0.180	0.135	42	67
16-18	0945	0045	16	3.7	--	--	--	0.14	0.72	0.83	0.210	0.145	48	76
18-19	0145	2045	14	3.0	--	--	--	0.09	0.59	1.10	0.170	0.130	63	86
19-20	2145	0745	14	3.7	--	--	--	0.07	0.59	1.20	0.180	0.140	55	96
20-22	0800	0700	18	6.2	639	--	--	0.02	0.88	1.10	0.200	0.115	100	75
JAN														
02-03	0900	0800	71	4.9	1370	--	--	0.41	1.8	2.10	0.270	0.135	280	92
03-04	0900	0800	65	5.3	1400	--	--	0.40	1.3	2.10	0.230	0.125	290	95
04-05	0900	0700	92	26	1140	--	--	0.37	2.2	1.80	0.310	0.110	220	77
05-06	0755	0055	93	15	954	--	--	0.27	1.6	2.20	0.250	0.015	170	65
06-06	0155	2155	65	4.7	1110	--	--	0.31	1.2	2.50	0.210	0.110	200	80
06-07	2255	1655	53	4.9	1140	--	--	0.33	1.2	2.50	0.200	0.120	200	85
FEB														
22-22	0955	2025	80	80	686	209	26	0.10	1.6	1.30	0.410	0.064	87	44
22-23	2155	0755	174	70	431	166	20	0.10	1.6	1.10	0.350	0.057	54	32
23-24	0805	0105	63	35	499	--	--	0.08	1.1	1.30	0.190	0.052	64	36
MAR														
09-10	0805	0705	8.4	18	667	--	--	0.20	1.2	1.80	0.220	0.110	92	44
10-11	0805	0705	21	50	465	148	17	0.11	1.3	1.20	0.320	0.063	54	37
11-12	0805	0705	64	6.0	828	--	--	0.24	0.95	3.10	0.260	0.165	110	56
12-13	0810	1510	59	--	--	76	11	0.06	1.0	1.30	0.220	0.062	51	33
13-15	1610	0710	22	8.1	--	--	--	0.06	0.83	1.30	0.150	0.064	63	36
15-17	0735	0635	12	--	633	--	--	0.06	0.93	1.40	0.180	0.070	77	43
17-19	0735	0635	24	--	585	--	--	0.09	1.2	1.20	0.240	0.077	70	39
APR														
02-03	0815	1915	12	2.8	--	--	--	0.02	0.76	1.30	0.280	0.076	82	46
02...	0825	--	14	3.7	--	--	--	0.07	0.98	1.20	0.130	0.082	76	42
03-05	2015	0715	74	25	--	--	--	0.03	1.3	0.84	0.290	0.061	57	37
05-09	0925	0025	47	26	--	90	11	0.02	1.0	1.20	0.200	0.035	64	33
09-09	0125	0725	13	6.5	--	--	--	0.02	0.75	1.60	0.100	0.032	82	46
09-10	0815	2215	17	14	--	--	--	0.01	1.1	1.50	0.210	0.033	84	42
11-12	2015	0715	43	60	--	124	17	0.02	1.6	1.10	0.300	0.035	50	30
12-13	0815	1515	24	36	--	--	--	0.03	0.94	1.30	0.130	0.041	66	35
13-16	1615	0715	16	5.1	--	--	--	0.02	0.91	1.50	0.100	0.041	72	38
20-21	0800	0100	11	3.9	710	--	--	0.03	1.5	1.70	0.200	0.061	90	44
21-23	1100	0700	21	18	561	--	--	0.03	1.3	0.87	0.210	0.048	61	37

0422026250 Northrup Creek At North Greece, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued														
MAY														
03-04	0740	2240	5.2	2.7	759	--	--	<0.01	0.85	1.30	0.310	0.265	98	47
04-07	2340	0640	14	16	632	--	--	0.02	1.2	1.20	0.260	0.145	71	34
07-10	0715	0615	9.2	4.2	--	--	--	0.03	0.62	1.40	0.220	0.155	83	37
10-12	0740	2240	7.7	3.8	736	--	--	0.02	0.72	1.20	0.270	0.225	86	41
12-14	2340	0640	61	170	512	583	76	0.06	1.9	0.96	1.06	0.135	51	32
14-16	0805	1305	20	100	573	480	<83	0.09	3.1	1.00	0.820	0.125	56	31
16-17	1405	0605	--	820	390	1250	184	0.04	6.8	0.56	2.30	0.081	32	18
17-21	0745	0645	62	290	--	963	120	0.14	4.4	0.98	1.30	0.105	43	20
21-25	1020	0845	26	55	--	--	--	0.05	1.3	1.40	0.490	0.115	53	22
JUN														
01-03	0820	1020	6.1	2.3	681	--	--	0.04	0.88	2.10	0.280	0.240	76	34
03-04	1120	0720	8.1	2.7	634	--	--	0.03	0.93	1.80	0.300	0.225	69	32
04-07	0810	0710	7.0	1.7	659	--	--	0.03	0.71	1.70	0.270	0.250	77	43
18...	0835	--	4.4	16	637	--	--	0.03	0.83	1.50	0.440	0.365	70	57
25...	0730	--	5.0	3.4	606	--	--	0.03	0.62	1.20	0.420	0.360	64	61
28-30	0730	0230	5.0	10	577	--	--	0.01	0.77	1.10	0.460	0.390	63	30
JUN 30-JUL 02	0330	0630	6.1	50	509	17	10	<0.01	0.93	0.86	0.460	0.325	53	24
02-03	0745	0445	4.7	17	594	--	--	0.04	0.85	0.96	0.490	0.390	64	53
05...	0755	--	5.5	5.8	580	--	--	0.03	0.50	0.96	0.480	0.430	61	57
05-07	0755	0255	4.0	4.7	571	--	--	0.06	0.82	0.70	0.460	0.400	63	52
07-09	0355	0655	3.5	4.3	565	--	--	0.02	1.0	0.71	0.470	0.410	61	50
09-12	0755	0655	4.0	8.6	529	--	--	0.03	0.85	0.60	0.460	0.405	77	50
19-23	0945	1645	4.2	3.4	557	--	--	0.04	0.84	1.30	0.240	0.550	57	72
23...	0745	--	5.5	12	--	--	--	0.05	0.82	1.30	0.470	0.410	59	52
23-26	0745	0645	4.0	6.3	--	--	--	0.09	0.84	1.00	0.440	0.350	53	49
JUL 30-AUG 02	0745	0645	4.2	7.4	509	--	--	0.09	0.97	0.68	0.450	0.360	50	64
02-03	0745	1445	2.5	22	533	--	--	0.02	0.92	1.00	0.570	0.390	52	57
03-06	1545	0645	4.0	23	479	--	--	0.01	1.6	0.89	0.570	0.375	45	50
06-09	0810	0710	3.5	3.6	485	--	--	0.03	0.77	1.30	0.510	0.380	48	45
09-11	0745	2245	2.9	2.4	509	--	--	0.02	0.69	1.60	0.510	0.500	51	56
13-16	0845	0745	7.0	40	513	72	12	<0.01	0.96	1.30	0.500	0.310	49	50
13...	0900	--	11	160	501	173	24	0.06	1.6	1.70	0.660	0.350	59	55
AUG 31-SEP 04	1025	0925	3.1	64	468	--	--	<0.01	0.84	1.00	0.490	0.400	44	44
04-15	1045	1145	3.1	7.0	476	--	--	0.15	1.0	1.20	0.540	0.440	45	46
05-06	1245	0945	5.5	24	455	--	--	0.22	1.3	1.10	0.560	0.355	36	40
06-07	1040	0140	4.2	24	476	--	--	0.05	1.0	1.60	0.500	0.340	49	44
07-10	0240	0940	5.5	65	455	96	15	<0.04	1.2	1.60	0.510	0.305	46	40
13-15	0950	0050	3.5	9.4	510	--	--	0.01	0.67	1.50	0.520	0.425	53	43
15-17	0150	0850	3.5	7.6	522	--	--	<0.01	0.66	1.30	0.440	0.375	50	52
27-29	1015	2115	3.1	2.0	--	--	--	0.20	0.52	22.0	5.30	4.65	46	30
SEP 29-OCT 01	2215	0915	6.1	7.1	--	--	--	0.20	5.5	17.0	4.40	3.50	40	22
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991														
OCT														
01-04	1000	0900	3.5	2.6	--	--	--	<0.01	0.57	2.10	0.480	0.405	50	35
11-13	0950	0450	25	40	493	92	15	0.04	1.1	1.40	0.420	0.205	48	33
13-15	0550	0850	18	9.5	605	--	--	0.05	0.83	1.50	0.260	0.190	63	42
22-23	0930	1430	5.0	2.6	--	--	--	0.04	0.64	2.00	0.390	0.355	140	56
23-25	1530	0830	8.8	5.0	701	--	--	0.03	0.97	1.70	0.360	0.285	77	50
NOV														
05-06	0935	0035	5.8	3.4	--	--	--	0.06	0.88	1.90	0.400	0.360	82	55
06-09	0135	0835	6.7	7.3	709	--	--	0.05	0.70	1.80	0.320	0.240	76	51
09-10	1015	0115	5.0	1.6	--	--	--	0.03	0.88	2.10	0.340	0.262	81	54
10-13	0215	0915	11	7.5	701	--	--	0.03	0.92	2.00	0.300	0.173	79	48
DEC														
03...	0945	--	3.7	2.6	--	--	--	0.03	0.69	2.50	0.370	0.368	98	39
03-03	0945	2345	4.0	3.1	--	--	--	0.02	0.96	1.60	0.385	0.300	86	46
04-04	0045	1045	37	65	--	240	37	0.06	2.6	1.40	0.825	0.225	110	37
04-06	1245	0845	19	21	676	--	--	0.03	1.4	1.50	0.325	0.230	89	40
17-18	0935	2335	16	9.8	--	--	--	0.04	1.2	1.80	0.110	0.160	82	41
19-20	0035	0835	24	21	495	--	--	0.03	1.0	1.40	0.100	0.110	66	36
20-21	1340	2040	12	4.9	692	--	--	0.10	0.90	1.90	0.240	0.140	81	41
21-24	2140	0740	31	80	530	270	35	0.07	2.3	1.40	0.580	0.074	58	33

0422026250 Northrup Creek At North Greece, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued														
JAN														
02...	0945	--	18	7.9	612	--	--	0.17	0.67	1.90	0.130	0.090	71	43
04...	0955	--	17	6.0	788	--	--	0.15	1.0	2.30	0.170	0.121	110	50
14-15	1015	1215	5.2	5.3	--	--	--	0.17	1.0	2.90	0.210	0.160	110	53
15-17	1315	0915	26	18	700	--	--	0.17	1.0	1.90	0.220	0.120	100	43
17-22	0955	0855	28	7.2	590	--	--	0.11	0.76	1.70	0.130	0.085	73	36
FEB														
04-07	0940	0840	37	13	536	--	--	0.05	0.76	1.30	0.150	0.075	66	34
07-11	0925	0825	20	3.7	644	--	--	0.03	0.74	1.80	0.150	0.095	79	41
19-19	0940	1640	55	9.6	722	--	--	0.04	0.82	1.70	0.190	0.110	120	39
19-21	1740	0840	41	36	545	141	31	0.02	1.7	1.30	0.460	0.071	75	33
24-25	1350	0850	--	6.3	570	--	--	0.03	0.80	1.10	0.120	0.068	64	37
MAR														
01-02	0815	1915	13	30	--	--	--	0.01	0.85	1.90	0.220	0.124	110	44
02-03	2015	0815	42	70	547	272	37	0.02	2.1	0.97	0.700	0.054	72	34
06...	0955	--	62	12	414	--	--	0.10	0.86	1.00	0.110	0.052	44	24
07...	1000	--	99	21	422	--	--	0.14	0.97	0.89	0.140	0.048	46	24
07-11	1010	0910	21	5.1	573	--	--	0.07	0.76	1.40	0.095	0.047	70	36
21...	0940	--	--	1.7	696	--	--	0.01	1.1	1.60	0.170	0.083	81	47
27-27	0645	1445	43	21	551	--	--	0.03	1.0	1.40	0.260	0.089	61	38
27-28	1545	0845	110	62	377	136	21	0.05	1.5	0.77	0.360	0.063	37	26
MAR 28-														
APR 01	0940	0840	26	5.0	589	--	--	0.02	0.81	1.40	0.140	0.078	63	38
01-02	0950	0250	11	1.6	664	--	--	0.02	0.70	1.70	0.160	0.093	77	41
02-04	0350	0850	11	1.6	654	--	--	0.02	0.60	1.70	0.160	0.100	74	41
08-10	0930	0230	9.5	12	679	--	--	0.03	0.70	1.30	0.320	0.225	80	42
10-11	0330	0830	27	20	489	--	--	0.05	0.89	0.88	0.260	0.120	46	29
11-14	0945	1645	8.8	2.2	653	--	--	0.03	0.80	1.50	0.170	0.160	72	38
15-15	0935	2035	14	9.3	572	--	--	0.02	1.1	1.10	0.220	0.130	61	34
15-18	2135	0835	15	5.1	617	--	--	0.02	0.94	1.00	0.180	0.115	62	32
18-20	0940	0400	--	2.2	676	--	--	0.01	0.99	1.50	0.230	0.032	75	35
18-20	0940	0840	--	2.1	678	--	--	0.01	0.89	1.50	0.220	0.032	75	36
20-22	0140	0740	102	40	437	115	22	0.02	1.7	0.82	0.420	0.018	39	22
MAY														
02...	0945	--	--	1.5	649	--	--	0.01	0.86	1.70	0.260	0.084	70	35
20-23	0835	0735	5.8	50	683	229	57	0.13	2.8	1.00	1.30	0.444	75	50
26-26	0810	2210	4.2	4.5	676	--	--	0.06	1.0	1.30	0.660	0.558	71	55
26-28	2310	0910	4.4	4.7	654	--	--	0.04	1.2	1.20	0.640	0.510	70	50
JUL														
05-07	0755	0355	3.1	7.1	413	--	--	0.04	0.39	1.00	0.720	0.625	44	48
07-07	0455	1255	6.1	13	447	--	--	0.04	0.60	1.00	0.850	0.615	44	47
07-08	1335	0655	--	13	400	--	--	0.03	0.67	1.10	0.700	0.530	36	51
11-13	0810	1510	2.5	4.2	463	--	--	0.05	0.63	1.40	0.700	0.610	46	56
13-14	1610	0310	4.7	8.1	440	--	--	0.02	0.70	1.20	0.600	0.530	39	71
14-15	0410	0710	3.1	4.6	476	--	--	0.02	0.70	1.90	0.600	0.530	44	75
AUG														
02-03	0835	0735	2.0	3.9	411	--	--	0.03	0.72	0.90	0.670	0.026	37	42
03-03	0835	1935	--	11	397	--	--	0.03	0.66	1.00	0.690	0.026	36	44
03-05	2035	0335	4.9	6.2	384	--	--	0.02	0.60	1.10	0.590	0.021	35	38
19-22	0800	0700	--	16	300	--	--	0.02	0.78	0.84	0.440	0.375	25	35
SEP														
05-09	0925	0825	2.3	--	423	--	--	0.02	0.69	--	0.680	0.505	40	43
09-11	1015	0015	2.1	4.5	425	77	14	0.04	0.50	1.60	0.620	0.590	37	38
11-12	0115	0915	2.9	6.0	400	--	--	0.03	0.78	1.60	0.660	0.610	36	31
23-24	0940	0540	2.9	3.4	--	--	--	0.02	0.55	1.40	0.630	0.580	39	29
24-26	0640	0840	6.4	19	343	--	--	0.03	0.79	1.10	0.540	0.430	32	27
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992														
OCT														
03-05	0910	2010	2.7	4.7	--	--	--	0.01	0.84	1.30	0.560	0.510	46	68
05-07	2110	0810	3.1	5.1	--	--	--	0.01	0.73	1.30	0.530	0.495	44	45
10...	0925	--	2.9	2.0	459	--	--	0.03	0.60	1.50	0.550	0.525	44	45
10-15	0925	0825	2.5	2.4	478	--	--	0.02	0.54	1.30	0.540	0.485	46	51

0422026250 Northrup Creek At North Greece, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued														
DEC														
09-12	0925	0825	2.7	1.9	1060	--	--	0.30	1.2	2.10	0.660	0.615	180	92
15-16	2140	0840	4.2	2.6	--	--	--	1.40	2.0	2.30	0.820	0.820	160	120
29-30	0625	2125	17	44	752	124	25	1.80	3.9	1.40	0.760	0.420	120	61
29-30	2225	0925	28	35	667	97	23	1.20	3.3	1.20	0.540	0.310	100	57
30...	1655	--	12	10	932	--	--	0.72	1.7	1.60	0.270	0.175	160	82
31...	0800	--	24	6.5	1090	--	--	1.30	2.1	1.90	0.310	0.240	200	94
DEC 31-														
JAN 03	1600	0900	7.0	5.0	--	--	--	1.20	1.9	2.50	0.370	0.300	200	80
03-06	0930	0830	4.4	4.9	924	--	--	0.83	1.8	2.30	0.450	0.380	150	350
14-17	0920	0820	--	4.2	969	--	--	0.79	1.7	3.20	0.390	0.335	150	85
14...	0925	--	9.9	8.6	943	--	--	0.79	1.7	2.20	0.490	0.420	160	83
21-23	0945	0545	5.2	2.0	1010	--	--	1.00	0.78	3.00	0.500	0.450	160	87
23-24	0645	0845	51	43	894	110	18	0.51	2.0	2.20	0.570	0.300	170	63
24-28	0935	0835	26	8.4	955	--	--	0.21	1.2	0.43	0.250	0.180	160	77
FEB														
14-15	0930	1230	9.9	1.5	--	--	--	0.24	1.2	4.80	0.630	--	170	120
15-18	1330	0830	39	6.2	--	--	--	0.15	1.2	3.10	0.330	0.245	160	61
18-20	0910	0210	45	5.7	753	--	--	0.10	1.5	2.10	0.320	0.155	120	69
20-21	0310	0810	22	2.3	695	--	--	0.31	1.5	1.50	0.260	0.150	100	66
21-24	0930	0830	13	6.5	756	--	--	0.32	1.2	2.20	0.210	0.155	120	82
24...	0930	--	9.9	6.0	781	--	--	0.30	1.1	2.50	0.200	0.150	110	72
27-28	0935	1235	8.0	2.5	780	780	--	0.29	1.1	2.60	0.210	0.165	110	75
28-29	1335	0435	15	7.8	736	--	--	0.22	1.2	2.40	0.260	0.150	100	67
29-29	0535	2035	15	21	696	--	--	0.13	1.6	2.00	0.340	0.120	100	61
FEB 29-														
MAR 02	2135	0835	9.5	7.9	739	--	--	0.30	1.3	2.00	0.230	0.150	120	64
06-07	0925	0825	14	6.1	680	--	--	0.13	0.71	2.20	0.200	0.120	93	71
07-07	0925	2325	23	14	707	--	--	0.13	0.86	1.90	0.190	0.105	97	65
08-09	0025	0825	23	12	704	--	--	0.16	1.1	1.70	0.200	0.105	94	63
09-10	0935	2035	17	4.0	702	--	--	0.09	0.85	1.80	0.170	0.105	98	66
10-13	2135	0835	15	9.0	686	--	--	0.23	0.97	2.00	0.180	0.105	93	66
24-25	0930	1130	8.0	1.8	939	--	--	0.18	0.91	2.00	0.150	0.115	170	60
25-27	1230	0830	74	75	562	--	--	0.07	2.3	1.40	0.300	0.074	86	40
27-31	0935	0835	79	39	492	137	28	0.03	2.0	1.30	0.390	0.044	70	30
MAR 31-														
APR 03	0935	0835	48	12	488	--	--	0.07	0.80	1.20	0.120	0.047	61	34
10-11	0925	0425	7.7	3.1	697	--	--	0.03	0.86	0.50	0.160	0.115	94	52
11-12	0525	0025	31	19	545	--	--	0.09	1.1	1.10	0.200	0.090	70	44
12-14	0125	0825	28	13	562	--	--	0.06	0.90	1.10	0.150	0.067	72	45
16-17	1330	0030	--	27	457	--	--	0.13	1.5	0.73	0.310	0.074	56	36
17-20	0130	0930	72	15	501	--	--	0.03	0.87	1.20	0.150	0.052	61	39
20-21	0955	1655	18	2.5	631	--	--	0.02	0.83	1.00	0.140	0.060	83	45
21-22	1755	0725	31	6.6	577	--	--	0.05	0.79	1.00	0.110	0.069	74	43
22-23	1025	0525	29	6.6	574	--	--	0.02	0.84	0.80	0.130	0.066	72	40
23-24	0625	0825	23	12	635	--	--	0.02	0.88	1.00	0.180	0.081	84	46
24-28	0920	0820	24	8.4	598	--	--	0.03	0.89	1.00	0.160	0.081	73	39
MAY														
01-02	0915	1215	12	3.9	424	--	--	0.07	0.75	1.50	0.180	0.130	110	58
02-03	1315	0415	134	140	771	354	56	0.05	2.3	0.78	0.670	0.089	49	31
03-05	0515	0815	36	32	457	61	11	0.01	1.1	0.89	0.240	0.075	45	28
05-08	0925	0625	13	4.2	596	--	--	0.01	0.85	1.10	0.160	0.100	65	44
JUN														
07-08	1725	0025	11	25	675	--	--	0.02	1.5	2.20	0.900	0.480	76	140
08-09	0125	0825	9.5	41	590	--	--	0.02	2.0	1.70	0.900	0.365	64	110
09-11	0930	1130	5.5	3.9	710	--	--	0.02	0.85	1.80	0.500	0.420	80	160
19-23	0945	0845	4.4	4.4	592	--	--	0.03	0.76	2.40	0.600	0.530	66	54
24-24	0630	2330	4.4	5.8	575	--	--	0.02	0.71	2.40	--	0.535	65	60
25-26	0030	0830	4.4	7.1	520	--	--	0.01	0.65	1.70	--	0.505	58	47
JUL														
03-03	0445	1945	2.2	31	504	71	13	--	--	--	0.760	0.510	59	60
03-06	2045	0745	4.4	15	507	--	--	--	--	--	0.540	0.440	55	51
06-08	0935	1635	2.9	6.4	561	17	<6	0.02	0.81	1.60	0.590	0.530	63	51
08-09	1735	0435	5.5	16	545	41	8	<0.01	1.0	0.18	0.690	0.560	59	55
09-10	0535	0835	4.7	15	490	30	<6	0.02	0.91	1.30	0.540	0.445	50	40
10-12	0920	1620	3.1	7.4	575	--	--	0.02	0.96	1.60	0.600	0.535	63	58
12-13	1720	1220	4.4	20	571	--	--	0.01	0.82	1.80	0.700	0.555	61	64

0422026250 Northrup Creek At North Greece, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued														
JUL-cont.														
14...	0935	--	7.4	20	570	--	--	0.02	0.93	1.80	0.630	0.495	61	39
14-15	0940	1140	16	85	475	194	30	0.02	2.2	--	--	0.315	48	38
15-17	1240	0540	13	50	587	141	61	0.02	1.4	--	--	0.245	59	42
26-26	0925	2025	5.8	21	659	26	<8	0.01	0.87	2.40	0.560	0.410	79	47
26-27	0925	2025	--	21	618	34	<7	0.02	0.94	1.80	0.470	0.360	68	43
31-31	0830	1930	25	60	453	184	31	0.03	1.8	1.50	0.720	0.300	47	38
JUL 31-AUG 01	2030	2330	25	60	453	134	22	0.04	1.4	0.93	0.520	0.180	43	32
03...	0945	--	30	40	466	59	10	0.03	1.1	0.75	0.350	0.180	44	32
04-04	0940	1740	30	70	--	117	20	0.02	1.4	0.84	0.440	0.155	45	29
04-07	1840	1440	11	26	--	--	--	0.02	1.0	1.10	0.350	0.215	59	38
21-24	0915	1615	3.5	5.3	671	--	--	0.03	0.76	1.50	0.490	0.400	75	66
24-25	1715	0815	6.4	25	601	--	--	0.01	0.96	1.30	0.550	0.405	65	59
25-27	0915	1415	4.2	12	564	--	--	0.03	0.64	0.92	0.460	0.350	62	52
27-27	1515	2315	5.2	12	621	--	--	0.02	0.56	1.10	0.500	0.410	65	57
28-28	0015	0815	8.8	28	513	--	--	0.03	0.81	1.10	0.530	0.360	53	47
28-29	1320	0420	9.5	44	542	92	15	0.03	1.2	0.91	0.550	0.315	57	43
AUG 29-SEP 01	0520	0820	5.5	28	615	--	--	0.02	0.80	1.10	0.470	0.315	65	46
03-03	1245	2045	8.0	16	646	--	--	<0.01	0.70	1.30	0.540	0.370	71	66
03-04	2145	0845	7.7	23	528	--	--	0.01	0.77	1.10	0.520	0.310	56	50
04-08	0940	0840	5.0	12	638	--	--	0.01	0.73	1.00	0.410	0.360	79	52
18-19	2115	0815	9.5	38	560	95	19	0.02	1.4	1.40	0.740	0.475	60	52
19-21	0915	1215	4.2	23	574	32	<6	0.01	0.81	1.30	0.470	0.390	63	50
21-22	1315	0815	11	40	534	86	15	0.01	1.1	0.33	0.570	0.365	58	46
22-25	0945	0845	12	70	558	153	21	0.02	1.3	0.30	0.490	0.220	58	40
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993														
OCT														
09-09	0945	2045	8.0	14	659	--	--	<0.01	0.79	0.20	0.510	0.415	70	59
09-13	2145	0845	4.8	5.7	672	--	--	0.01	0.48	1.60	0.420	0.375	32	56
15-15	0925	2025	18	33	534	64	11	0.01	1.1	1.50	0.560	0.345	56	47
15-19	2125	0825	9.6	16	635	--	--	0.01	0.76	1.30	0.340	0.250	65	49
24-25	0125	0025	10	8.8	680	--	--	<0.01	0.66	2.00	0.340	0.285	74	54
25-26	0125	0825	9.2	8.7	691	--	--	0.04	0.80	1.20	0.290	0.230	71	52
NOV														
02-03	0915	0815	27	40	601	106	19	<0.01	1.4	1.10	0.550	0.250	64	47
03-05	0915	0815	24	45	582	70	12	0.01	1.3	0.74	0.340	0.135	54	41
12-13	0910	0810	14	30	704	42	9	0.02	0.99	1.40	0.340	0.175	73	50
13-16	0910	0810	17	27	720	--	--	0.01	0.86	1.30	0.220	0.145	83	48
17-18	1525	2025	18	14	776	--	--	0.03	0.89	1.40	0.210	0.135	110	49
18-19	2125	0825	24	32	719	76	17	0.02	1.6	1.10	0.420	0.125	93	49
19-20	0930	1230	17	17	733	--	--	0.03	0.90	1.30	0.230	0.125	91	48
22-23	1730	0830	52	130	554	286	51	0.02	3.1	1.10	0.870	0.110	56	36
23-24	0930	2030	35	40	570	76	14	0.04	1.2	0.89	0.290	0.095	59	39
24-25	2130	0830	38	28	574	--	--	0.03	0.92	1.00	0.240	0.125	58	38
25-30	0915	0815	20	20	654	--	--	0.02	0.99	1.70	0.130	0.024	67	44
DEC														
06-06	0115	1215	8.0	7.2	770	--	--	0.10	0.77	2.10	0.260	0.195	86	47
06-07	1315	0815	7.7	6.6	809	--	--	0.16	0.82	2.30	0.260	0.195	96	50
09-10	0020	0820	7.4	6.2	919	--	--	0.15	0.88	2.10	0.250	0.180	130	51
10-11	0925	0425	7.2	6.3	862	10	<6	0.19	1.0	2.60	0.280	0.190	120	53
11-11	0525	1625	6.9	6.5	860	--	--	0.27	1.1	2.10	0.270	0.175	120	52
11-14	1725	0825	7.6	6.6	849	--	--	0.23	0.96	1.60	0.230	0.155	130	48
14-16	1025	0625	17	7.0	772	--	--	0.13	0.85	1.20	0.180	0.115	110	42
16-17	0725	0925	48	39	596	125	23	0.13	1.3	0.85	0.310	0.091	110	42
17-17	0925	2025	62	38	539	--	--	0.10	1.6	0.90	0.400	0.076	67	26
17-21	2125	0825	49	42	547	119	24	0.12	1.8	1.10	0.430	0.072	62	29
21-24	0950	0800	18	20	667	--	--	0.07	1.0	0.40	0.250	0.079	73	42
29-30	1600	0100	26	50	668	171	21	0.24	1.7	1.20	0.390	0.096	93	33
30-31	0200	0800	50	95	371	281	30	0.14	1.8	1.00	0.550	0.095	41	22

0422026250 Northrup Creek At North Greece, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued														
DEC 31-														
JAN 02	0835	0735	66	45	478	105	13	0.15	1.0	0.98	0.260	0.065	54	28
04-05	0930	0830	55	50	556	139	17	0.22	1.4	1.10	0.300	0.069	70	35
05-07	0930	0830	45	45	520	85	12	0.25	1.4	1.10	0.240	0.076	59	34
21-22	0920	2020	57	32	--	86	12	0.46	1.4	1.50	0.290	0.098	91	34
22-25	2120	0820	59	28	--	--	--	0.18	0.87	0.95	0.180	0.054	66	28
25-28	0935	0835	24	12	728	--	--	0.30	1.1	1.50	0.140	0.068	99	36
FEB														
04-06	0955	0855	8.8	4.5	951	--	--	0.57	1.4	--	0.150	0.096	150	55
MAR														
22-25	0845	0745	47	24	806	--	--	0.20	1.3	1.40	0.200	0.056	130	38
25-29	0905	0805	103	140	518	616	55	0.12	2.0	1.20	0.730	0.056	69	25
MAR 29-														
APR 01	0835	0835	156	85	335	--	--	0.07	1.2	0.89	0.360	0.048	34	20
01-02	0910	2010	195	110	292	--	--	0.06	1.5	0.84	0.520	0.055	31	19
02-05	2110	0710	51	39	419	--	--	0.08	0.94	1.10	0.230	0.055	46	25
05-08	0915	0815	24	14	533	--	--	0.07	0.72	1.40	0.130	0.046	58	26
08-10	0835	0735	15	5.7	609	--	--	0.05	0.82	1.60	0.130	0.037	70	33
10-10	0835	2335	24	13	606	--	--	0.10	1.2	1.40	0.220	0.037	71	34
11-12	0035	0735	19	18	602	--	--	0.08	0.98	1.30	0.170	0.053	70	32
12-15	0800	0700	10	3.7	--	--	--	0.04	0.84	<0.02	0.130	0.055	84	35
15-17	0815	1515	11	3.8	699	--	--	0.05	0.75	1.60	0.130	0.068	69	40
17-19	1615	0715	14	7.9	658	--	--	0.03	0.82	1.20	0.140	0.062	76	36
22-24	0825	2325	8.4	4.4	722	--	--	0.01	0.94	1.70	0.150	0.087	88	40
24-26	0025	0725	7.8	3.7	751	--	--	<0.01	0.90	1.80	0.170	0.094	95	44
26-29	1010	0450	9.6	6.4	664	--	--	<0.01	1.0	1.70	0.150	0.086	78	38
APR 29-														
MAY 03	0855	0755	8.6	4.8	575	--	--	<0.01	0.59	1.50	0.140	0.082	64	37
JUN														
01-03	0930	0830	3.6	11	717	--	--	<0.01	1.1	2.10	0.500	0.410	88	64
05-05	0155	2055	9.0	N150	655	413	70	--	3.1	2.30	1.45	0.455	80	54
05-07	2155	0855	7.4	N540	631	1140	158	--	4.4	1.80	1.95	0.285	74	61
08-09	1445	0145	7.2	40	698	77	<23	--	1.2	2.10	0.610	0.430	87	59
09-09	0245	1045	6.7	70	611	113	19	--	1.3	1.90	0.670	0.360	73	48
09-09	1145	1945	14	120	594	254	38	--	2.5	1.60	0.910	0.310	66	50
09-10	2045	0745	10	420	559	609	61	--	2.0	1.40	1.00	0.240	65	55
10-14	0845	0745	4.3	60	740	103	16	0.02	1.1	2.20	0.630	0.405	94	55
19-20	0100	0800	3.3	24	745	--	--	0.02	1.1	2.60	0.740	0.590	95	65
20-21	0900	0800	4.2	40	657	71	14	0.02	1.2	2.20	0.750	0.510	81	52
21-24	0840	0740	3.0	26	728	--	--	0.02	1.1	2.30	0.730	0.540	91	57
JUL														
11-12	2120	0820	1.7	7.0	996	--	--	0.01	0.79	0.94	0.090	0.025	150	110
12-12	0905	1705	5.0	41	596	114	21	0.02	1.6	2.30	1.15	0.775	75	53
12...	0910	--	8.8	40	660	--	--	<0.01	1.4	2.00	1.10	0.795	88	56
12-15	1805	0805	1.8	18	548	--	--	0.02	1.0	1.80	0.810	0.680	67	48
19-19	0840	1640	6.6	65	--	172	33	0.04	1.7	2.20	1.10	0.545	65	47
19-22	1740	0740	2.7	29	--	--	--	0.02	1.1	1.80	0.770	0.475	60	52
AUG														
05-07	0850	2350	1.6	12	692	--	--	<0.01	0.84	1.70	0.850	0.678	91	81
07-09	0050	0750	1.7	5.0	617	--	--	<0.01	0.61	1.90	0.840	0.761	74	70
20-21	0510	0010	1.7	22	513	--	--	0.02	1.1	1.50	0.900	0.710	67	58
21-23	0110	0810	1.7	10	478	--	--	<0.01	0.82	1.40	0.720	0.610	50	48
AUG 31-														
SEP 01	1745	0445	4.4	32	481	90	24	<0.01	1.1	--	0.960	0.740	47	62
01-03	0545	0845	2.0	17	447	--	--	<0.01	0.90	--	0.790	0.685	46	50
03-06	0920	1220	2.4	12	462	--	--	<0.01	1.1	1.60	0.730	0.625	49	46
06-07	1320	0820	3.8	18	474	--	--	<0.01	0.92	2.10	0.760	0.634	48	46
07-09	1030	0930	2.0	8.8	--	--	--	0.01	0.70	2.00	0.710	0.630	51	--
10-10	0540	1640	3.2	8.7	521	--	--	0.02	0.69	2.10	0.770	0.720	55	53
10-13	1740	0840	2.2	6.7	499	--	--	<0.01	0.57	2.00	0.730	0.698	53	51
23-23	0925	2025	2.7	5.8	499	11	<6	0.01	0.69	2.20	0.690	0.600	51	59
25-26	2125	1225	4.9	30	470	71	12	0.01	0.98	2.10	0.840	0.600	48	48
26-27	2125	0825	3.1	22	342	--	--	0.02	0.71	1.30	0.550	0.425	34	31

Surface-Water Stations

A. Discharge and water quality

04232034 Irondequoit Creek At Railroad Mills Near Fishers, N.Y.

LOCATION.--Lat 43˚01'40", long 77˚28'42", Ontario County, Hydrologic Unit 04140101, on right bank 90 ft upstream from bridge on Railroad Mills Road, 1.5 mi northwest of Fishers, and 4.0 mi southwest of Fairport.

DRAINAGE AREA.--39.2 mi^2.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and 9 discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD July 1991 to September 1993.--Maimum discharge, 588 ft^3/s, Apr. 2, 1993, gage height, 9.36 ft, minimum daily discharge, 9.5 ft^3/s, Aug. 2, 1991.

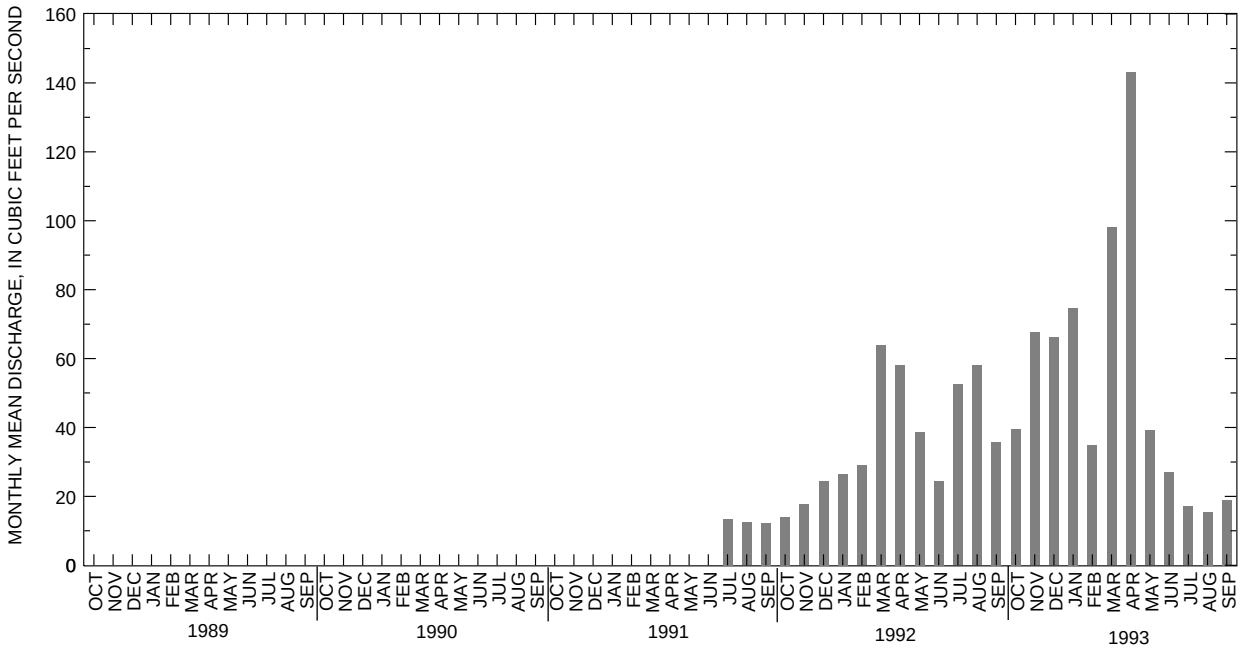
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1991-93, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.8	42.5	45.2	50.5	31.8	80.9	101	38.8	25.6	27.7	28.7	22.4
MAX	39.5	67.5	66.1	74.6	34.7	98.0	143	39.1	26.9	52.5	58.0	35.8
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1992	1992	1992
MIN	14.1	17.6	24.4	26.5	29.0	63.9	58.2	38.6	24.4	13.4	12.5	12.3
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991

SUMMARY STATISTICS

STATISTIC	FOR 1992 CALENDAR YEAR		FOR 1993 WATER YEAR		WATER YEARS 1991 - 1993		
ANNUAL TOTAL	17116		19517				
ANNUAL MEAN	46.8		53.5				
AVERAGE DISCHARGE					45.2		
HIGHEST ANNUAL MEAN					53.5		1993
LOWEST ANNUAL MEAN					37.0		1992
HIGHEST DAILY MEAN	381	Mar 27	553	Apr 2	533	Apr 2	1993
LOWEST DAILY MEAN	13	Jul 2	13	Aug 26	9.5	Aug 2	1991
ANNUAL SEVEN-DAY MINIMUM	17	Feb 8	13	Aug 24	9.9	Jul 27	1991
INSTANTANEOUS PEAK FLOW			588	Apr 2	588	Apr 2	1993
INSTANTANEOUS PEAK STAGE			9.36	Apr 2	9.36	Apr 2	1993
INSTANTANEOUS LOW FLOW			12	a	8.5	Aug 2	1991
ANNUAL RUNOFF (CFSM)	1.19		1.36		1.15		
ANNUAL RUNOFF (INCHES)	16.24		18.52		15.67		
10 PERCENT EXCEEDS	86		110		79		
50 PERCENT EXCEEDS	35		36		28		
90 PERCENT EXCEEDS	19		16		13		

a Aug 27, 28, 29 .



04232034 Irondequoit Creek At Railroad Mills Near Fishers, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1991 to current year.
CHEMICAL DATA: 1991-93 (e).
NUTRIENT DATA: 1991-93 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
PERIOD NOVEMBER 1991 TO SEPTEMBER 1992													
NOV													
27-28	1220	2220	17	2.6	--	--	--	0.42	1.20	0.025	<0.002	61	330
28-29	2320	1320	28	7.8	--	--	--	0.49	0.29	0.045	0.003	65	310
NOV 29-													
DEC 02	1420	1120	25	4.7	--	--	--	0.56	0.98	0.035	0.003	64	280
02-03	1240	0540	21	4.5	--	--	0.01	0.44	1.00	0.040	0.006	60	300
03-04	0640	1140	46	16	--	--	0.02	0.76	0.87	0.075	0.006	82	240
04-05	1240	1140	28	8.4	--	--	0.02	0.52	0.93	0.030	0.006	65	240
26-29	1405	0505	17	2.5	--	--	0.01	0.40	1.20	0.035	0.006	63	310
29-30	0605	1305	62	28	74	18	0.03	1.1	1.00	0.120	0.008	98	220
DEC 30-													
JAN 02	1350	1250	32	12	--	--	0.02	0.50	1.70	0.060	0.009	69	210
21-23	1420	1220	19	1.8	--	--	0.02	0.26	1.50	0.020	0.005	63	270
23-24	1230	2330	46	14	--	--	--	--	--	0.060	0.008	110	<10
FEB													
14-15	1035	2155	17	1.2	--	--	0.01	0.24	1.30	0.015	0.005	73	270
15-16	2255	1755	41	8.4	--	--	0.05	0.63	1.30	0.050	0.006	130	220
16-18	1855	0955	46	1.1	--	--	0.04	0.56	1.20	0.055	0.007	75	160
18-19	1255	1555	34	9.7	--	--	0.02	0.51	1.40	0.040	0.008	79	190
19-20	1655	1055	41	20	--	--	0.02	0.71	1.50	0.075	0.009	71	150
20-22	1155	2255	39	10	--	--	0.03	0.50	1.50	0.040	0.011	61	160
22-24	2355	1055	43	27	--	--	0.03	0.73	1.60	0.095	0.012	68	150
24-27	1150	1050	45	12	--	--	0.03	0.49	1.70	0.050	0.009	60	170
27-28	1125	1825	38	3.2	--	--	0.03	0.42	1.70	0.025	0.008	57	190
28-29	1925	0625	42	6.6	--	--	0.03	0.50	1.50	0.040	0.010	71	190
FEB 29-													
MAR 02	0725	1025	46	3.2	--	--	0.02	0.43	1.50	0.025	0.007	71	200
05-07	1130	0230	29	21	--	--	0.02	0.29	--	0.015	0.007	59	130
07-08	0330	0230	60	19	--	--	0.01	0.52	--	0.055	0.007	74	220
08-09	0330	1030	69	19	--	--	0.01	0.72	--	0.065	0.006	62	180
09-12	1235	1135	44	4.6	--	--	0.03	0.43	1.30	0.030	0.009	60	180
26-28	1120	0220	269	200	510	60	0.03	2.5	1.20	0.610	0.008	46	60
28-30	0320	1020	167	65	111	14	0.03	0.85	1.30	0.160	0.009	44	69
MAR 30-													
APR 02	1155	1055	93	17	--	--	0.01	0.46	1.00	0.070	0.007	52	110
09-11	1110	1410	33	1.5	--	--	0.02	0.28	1.30	0.015	0.002	59	210
11-12	1510	1410	69	26	--	--	0.01	0.50	1.10	0.070	0.004	68	170
12-13	1510	1010	65	18	--	--	0.01	0.55	0.80	0.050	0.004	54	130
13-16	1210	1110	38	6.9	--	--	0.01	0.40	1.10	0.020	0.004	56	--
16-17	1125	1025	109	45	133	20	--	0.76	1.00	0.130	0.006	59	140
17-19	1125	0425	111	34	69	13	--	0.55	1.00	0.095	0.006	45	100
19-20	0525	1025	86	20	--	--	--	0.48	0.97	0.060	0.006	45	110
MAY													
04-07	1140	1040	54	15	--	--	--	--	--	0.040	0.004	49	130
JUN													
01-04	1155	1055	38	19	--	--	--	--	--	0.060	0.008	60	140
01...	1200	--	57	11	--	--	--	--	--	0.065	0.007	62	160
06-07	0335	1035	35	14	--	--	--	--	--	0.090	0.010	60	220
07-08	1135	1035	32	16	--	--	--	--	--	0.075	0.010	57	190
08-11	1200	1100	28	16	--	--	--	--	--	0.060	0.008	56	-
19-19	0725	2225	31	30	105	10	--	--	--	0.110	0.008	61	240
19-22	2325	1025	22	20	--	--	--	--	--	0.070	0.009	64	250
JUL													
03-03	1105	2205	23	95	177	25	--	--	--	0.160	0.007	58	270
03-06	2305	1005	20	26	--	--	--	--	--	0.080	0.008	59	250
06-08	1135	1935	17	8.0	--	--	--	--	--	0.035	0.008	62	290
08-09	2035	1035	38	110	221	22	--	--	--	0.300	0.010	59	250
09-12	1135	1435	26	45	92	10	--	--	--	0.110	0.012	60	220
29-31	1510	1010	68	75	245	36	--	--	--	0.230	0.018	46	-

04232034 Irondequoit Creek At Railroad Mills Near Fishers, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
PERIOD NOVEMBER 1991 TO SEPTEMBER 1992-continued													
AUG													
03-04	1210	1410	105	55	225	23	0.03	0.95	0.86	0.160	0.022	41	120
04-06	1510	1010	107	33	92	12	0.02	0.89	0.56	0.160	0.025	36	88
24-24	1120	2220	18	13	--	--	0.03	0.32	1.30	0.025	0.005	58	180
24-25	2320	0720	23	18	--	--	--	--	--	0.045	0.006	59	180
25-27	0820	1020	20	3.6	--	--	--	--	--	0.035	0.005	60	180
27-28	1520	1420	118	62	232	19	--	--	--	0.290	0.017	37	-
28-31	1520	1020	152	50	110	14	--	--	--	0.170	0.025	30	-
SEP													
03-04	0400	0300	50	21	47	9	0.01	--	1.00	0.140	0.013	54	-
04-04	0400	1100	75	30	62	12	0.02	--	0.73	0.165	0.020	42	-
04-08	1105	1005	36	12	--	--	--	--	--	0.050	0.016	58	170
18-19	1930	1430	43	75	142	21	--	--	--	0.190	0.009	58	150
19-21	1530	1030	28	16	--	--	--	--	--	0.070	0.006	53	190
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
OCT													
09-09	1125	2225	111	440	805	102	--	--	--	0.960	0.022	46	150
09-13	2325	1025	64	60	175	29	--	--	--	0.150	0.018	44	130
23-25	2355	1055	69	80	135	20	--	--	--	0.160	0.008	53	160
25-26	1155	1055	78	45	63	13	--	--	--	0.120	0.008	43	120
26-29	1235	1135	46	12	--	--	--	--	0.84	0.045	0.006	51	150
NOV													
02-03	1200	0800	117	90	180	28	--	--	--	0.180	0.012	46	130
03-05	0900	1100	130	50	78	12	--	--	--	0.130	0.011	35	97
22-23	1200	1100	93	130	196	24	--	--	--	0.270	0.007	49	120
23-25	1210	2310	131	60	78	12	--	--	--	0.150	0.011	38	93
25-25	0010	1110	112	130	166	22	--	--	--	0.330	0.010	41	96
DEC													
10-11	1220	1920	35	6.7	18	<5	<0.01	0.39	1.50	0.045	0.005	60	190
16-17	1030	1230	105	34	89	19	--	--	--	0.100	0.006	75	110
17-18	1250	1150	186	33	--	--	--	--	--	0.120	0.008	51	61
18-21	1250	1150	130	24	--	--	--	--	--	0.090	0.006	42	70
29-31	1755	1055	135	50	--	--	0.01	1.0	0.95	0.140	0.008	57	110
DEC 31-													
JAN 03	1110	0210	132	36	78	12	<0.013	0.78	0.88	0.130	0.006	45	96
03-04	0310	1010	65	8.5	--	--	--	--	--	0.045	0.003	57	160
04-05	1235	1735	138	60	96	14	<0.01	--	0.82	0.140	0.009	47	95
05-07	1835	1135	107	32	49	9	<0.01	--	0.86	0.095	0.006	42	110
21-23	1205	0305	85	21	--	--	--	--	--	0.090	0.007	65	130
23-25	0405	1105	134	34	67	10	--	--	--	0.120	0.005	47	81
25-28	1235	1135	68	16	--	--	--	--	--	0.045	0.005	51	130
MAR													
18-19	1140	1445	43	5.2	--	--	<0.01	--	1.20	0.040	0.006	77	92
19-22	1545	0245	43	4.4	--	--	<0.01	--	1.20	0.030	0.005	68	140
22-25	1115	1015	88	17	--	--	<0.01	0.52	1.10	0.060	0.004	79	110
25-29	1100	1000	210	60	149	19	0.01	1.5	0.80	0.150	0.010	47	59
29-31	1125	0725	427	85	201	20	0.01	0.94	0.69	0.210	0.010	24	36
MAR 31-													
APR 01	0825	0725	418	85	152	15	0.01	0.83	0.64	0.210	0.008	20	32
01-03	1150	0250	540	80	--	--	--	--	--	0.170	0.010	25	30
03-05	0350	0950	222	32	--	--	--	--	--	0.120	0.008	32	57
05-08	1135	1035	173	22	--	--	<0.01	0.71	0.91	0.085	0.005	40	80
08-10	1115	1015	95	2.8	--	--	0.01	1.4	1.00	0.080	0.009	45	100
16-18	1035	0035	151	50	91	17	--	--	--	0.140	0.007	48	100
JUL													
19-21	1325	1225	19	23	--	--	0.02	0.0	N1.60	0.110	0.006	73	N320
SEP													
06-07	0515	0015	22	25	--	--	<0.01	0.78	1.30	0.160	0.009	61	N280
07-07	0115	1015	23	29	--	--	<0.01	0.96	1.10	0.120	0.012	61	-
14-15	2030	1630	15	16	--	--	0.01	0.59	1.30	0.060	0.007	68	290
23-26	1050	0150	18	50	109	20	--	--	--	0.160	0.012	61	N240
26-27	0250	0950	37	240	499	64	--	--	--	0.420	0.010	55	190

Surface-Water Stations

A. Discharge and water quality

04232040 Irondequoit Creek Near Pittsford, N.Y.

LOCATION.--Lat 43˚03'15", long 77˚29'28", Monroe County, Hydrologic Unit 04140101, on right bank 140 ft upstream from bridge on Thornell Road, 0.9 mi south of creek passage under Erie (Barge) Canal, and 2.7 mi southeast of Pittsford.

DRAINAGE AREA.--44.4 mi^2.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1961–62, 1964–66, 1968, and annual maximum, water years 1962–63, 1965–66, 1968–70, 1972. March 1980 to May 1991 (discontinued).

REVISED RECORDS.--WDR NY–81–3: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Prior to March 1980, nonrecording gage and crest-stage gage at site 150 ft downstream at same datum. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from Corps of Engineers river-profile map.

REMARKS.--Records fair. Unpublished water-quality records are available in files of Monroe County Department of Health. Several measurements of water temperature were made during each year.

COOPERATION.--Streamflow measurements were obtained and recorder equipment maintained by Monroe County Environmental Health Laboratory, Rochester, N.Y.

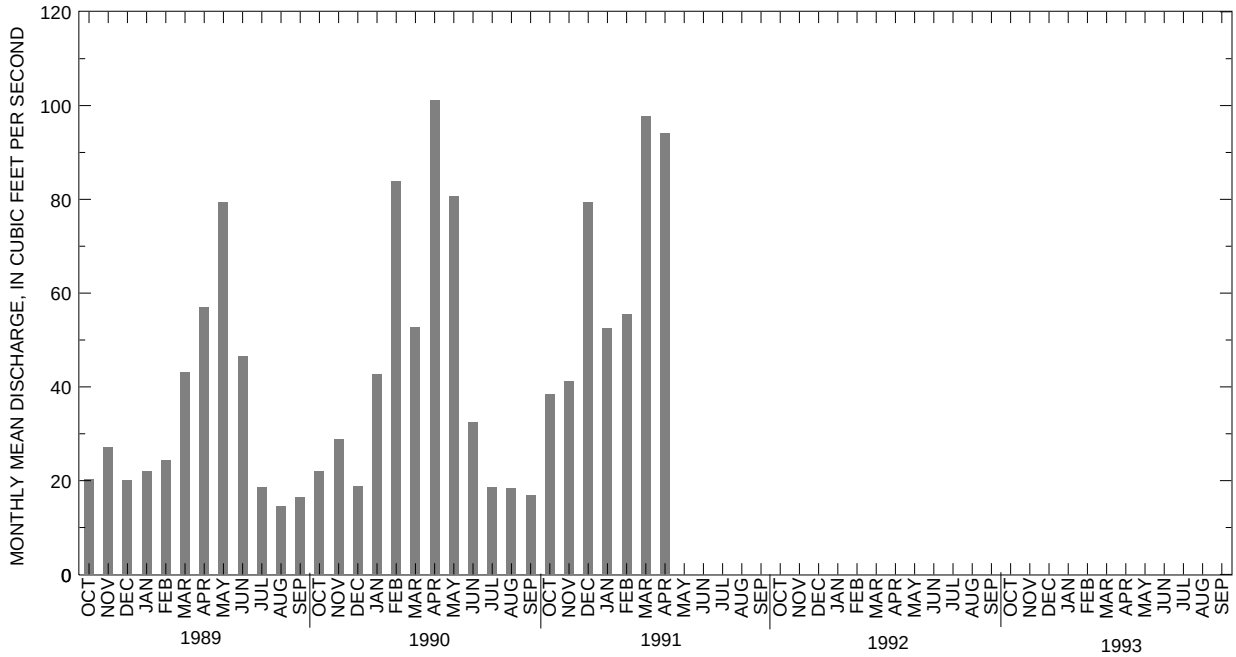
EXTREMES FOR PERIOD March 1980 to May 1991.--Maximum discharge, 640 ft^3/s, revised, Mar. 12, 1962, gage height, 8.6 ft, at site then in use; minimum discharge measured, 8.10 ft^3/s, Sept. 17, 1964; minimum gage height at present site, 2.98 ft, Sept. 12, 1983.

STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1980-90, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.7	41.9	45.4	37.2	56.1	61.5	65.8	49.0	30.6	19.7	23.0	22.1
MAX	58.0	79.1	80.1	58.5	83.8	91.7	101	101	46.5	27.6	41.9	38.6
(WY)	1987	1986	1987	1986	1990	1982	1990	1984	1989	1986	1986	1984
MIN	15.9	27.1	18.8	22.1	24.3	36.4	34.0	27.4	14.9	13.1	13.2	15.6
(WY)	1983	1989	1990	1989	1989	1988	1981	1981	1988	1983	1985	1988

SUMMARY STATISTICS

STATISTIC	FOR 1989 CALENDAR YEAR		FOR 1990 WATER YEAR		WATER YEARS 1980 - 1990		
ANNUAL TOTAL	11917		15608				
ANNUAL MEAN	32.6		42.8				
AVERAGE DISCHARGE					39.9		
HIGHEST ANNUAL MEAN					55.5		1984
LOWEST ANNUAL MEAN					30.3		1988
HIGHEST DAILY MEAN	260	May 8	428	Apr 11	459	Feb 24	1985
LOWEST DAILY MEAN	10	Sep 6	10	Jul 30	9.3	Jul 13	1988
ANNUAL SEVEN-DAY MINIMUM	11	Sep 4	11	Aug 29	9.8	Jul 7	1988
ANNUAL RUNOFF (CFSM)	.74		.96		.90		
ANNUAL RUNOFF (INCHES)	9.98		13.08		12.21		
10 PERCENT EXCEEDS	54		83		70		
50 PERCENT EXCEEDS	23		30		29		
90 PERCENT EXCEEDS	13		13		15		



04232040 Irondequoit Creek Near Pittsford, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to April, 1991, discontinued.
CHEMICAL DATA: 1983-91 (e).
NUTRIENT DATA: 1983-91 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y
REMARKS.--Prior to 1988 water year, data published in WATER RESOURCES OF MONROE COUNTY NEW YORK, WATER YEARS 1984-88. U.S. Geological Survey Open-File Report 93-370.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
21-22	1315	0615	18	--	--	--	<0.01	0.43	0.87	0.030	0.006	60	260
22-24	0715	1215	44	20	--	--	0.01	0.70	0.66	0.040	0.008	57	220
24-27	1320	1220	24	--	--	--	<0.01	0.82	0.79	0.035	0.006	62	250
27...	1300	--	24	2.8	--	--	<0.01	0.56	0.99	0.030	0.005	62	270
NOV													
07...	1325	--	30	2.1	--	--	<0.01	0.71	0.59	0.010	0.005	60	230
10...	1220	--	26	1.4	--	--	<0.01	0.30	0.87	0.010	0.007	62	270
17-18	1310	2010	22	--	--	--	0.03	0.31	1.02	0.010	0.007	58	280
18-21	2110	1210	29	--	--	--	0.03	0.27	1.04	0.010	0.005	58	290
DEC													
19...	1235	--	13	1.2	--	--	0.03	0.42	1.37	0.010	0.004	64	300
27-28	1315	0315	21	1.1	--	--	0.04	0.55	1.21	0.020	<0.002	72	240
28-30	0415	0815	27	3.4	--	--	0.03	0.55	1.17	0.025	0.004	71	240
JAN													
08-09	0400	1100	28	4.2	--	--	0.02	0.91	1.14	0.035	0.005	110	250
09-12	1235	1535	25	1.9	--	--	0.02	0.29	1.22	0.025	<0.002	76	230
23...	1220	--	19	2.1	--	--	0.02	0.43	1.30	0.025	0.004	61	260
26-30	1145	1045	29	2.8	--	--	0.02	0.87	1.10	0.025	0.003	71	230
FEB													
06...	1120	--	20	1.5	--	--	0.01	0.68	1.20	0.015	0.006	65	250
13-17	1120	1020	22	1.1	--	--	0.01	0.36	1.20	0.015	0.002	74	250
17-20	1210	2310	18	8.5	--	--	0.02	0.33	1.20	0.010	0.003	72	260
21-21	0010	1110	24	4.5	--	--	0.02	0.40	1.20	0.030	0.007	75	250
21-24	1240	1140	47	--	--	--	0.01	1.3	1.00	0.135	0.006	69	150
MAR													
02-04	1315	0815	23	2.0	--	--	0.02	0.54	1.30	0.020	0.004	65	240
04-06	0915	1215	76	45	110	22	0.03	1.7	1.10	0.175	0.013	99	130
13-16	1240	1140	33	3.5	--	--	<0.01	0.61	0.92	0.040	0.003	60	190
16-18	1215	0315	33	2.6	--	--	0.01	0.44	0.87	0.030	0.003	55	160
18-20	0415	1115	56	35	100	12	0.01	1.2	1.00	0.100	0.005	68	130
23-24	1230	1530	34	2.4	--	--	0.02	0.60	1.00	0.035	0.004	70	190
24-27	1630	1130	52	6.5	--	--	<0.01	0.88	1.20	0.070	0.004	61	150
27-30	1200	0500	46	2.1	--	--	0.01	0.57	0.70	0.030	0.002	58	160
30-30	0600	1100	51	45	--	--	0.03	1.5	0.66	0.185	0.006	57	140
MAR 30-													
APR 02	1245	1545	131	40	122	25	0.03	1.7	0.93	0.170	0.007	63	110
02-03	1645	1145	177	75	240	24	0.02	1.8	1.10	0.330	0.007	57	87
03-06	1215	1115	157	50	115	14	0.02	1.1	1.20	0.180	0.007	49	84
06-10	1210	1110	52	2.8	--	--	0.02	0.34	0.90	0.025	0.005	57	140
10-13	1200	1100	38	2.2	--	--	0.03	0.42	0.51	0.025	0.004	60	170
17...	1145	--	35	1.8	--	--	0.01	0.38	0.64	0.020	0.004	62	210
27-27	0015	1115	29	3.7	--	--	0.03	0.34	0.99	0.040	0.003	59	220
27-28	1620	0720	29	4.6	--	--	0.01	0.40	1.00	0.065	0.003	60	230
APR 28-													
MAY 01	0820	112	29	2.9	--	--	0.01	0.11	1.10	0.025	0.003	61	250
01-01	1310	2110	34	2.5	--	--	0.02	0.32	0.93	0.040	0.005	59	170
01-04	2210	1210	83	24	--	--	0.02	1.2	0.68	0.115	0.006	54	130
04-07	1238	0338	38	3.9	--	--	0.05	0.48	0.73	0.030	0.006	56	170
07-08	0438	1138	173	60	224	26	0.03	1.1	0.69	0.225	0.009	53	110
08-10	1200	1700	186	28	--	--	<0.01	--	0.97	0.145	0.009	35	-
08-11	1200	1100	173	--	--	--	--	1.1	--	--	--	--	-
10-11	1800	1100	119	22	--	--	0.02	--	0.75	0.100	0.021	49	20
11-14	1225	1125	185	26	--	--	0.04	--	0.86	0.155	0.010	38	57
11-15	1225	1125	170	--	--	--	--	1.0	--	--	--	--	-

04232040 Irondequoit Creek Near Pittsford, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989-continued													
MAY-continued													
14-15	1225	1125	111	50	136	18	0.03	--	0.70	0.185	0.009	46	100
15-16	1225	0225	93	--	--	--	0.02	0.92	0.70	0.105	0.008	45	78
16-18	0325	1125	88	8.0	--	--	0.03	0.95	0.62	0.125	0.007	44	87
25...	1130	--	39	3.2	--	--	0.03	0.64	1.00	0.045	0.008	54	160
26...	1000	--	38	4.2	--	--	0.05	0.57	1.10	0.055	0.009	55	180
30...	1200	--	32	4.4	--	--	0.04	0.52	1.20	0.065	0.012	60	210
30-31	1230	2330	38	2.6	--	--	0.03	0.57	1.20	0.070	0.009	59	390
JUN													
01-02	0030	1130	50	5.8	--	--	0.04	1.1	0.88	0.130	0.011	55	150
02-05	1220	1120	34	4.3	--	--	0.06	0.87	1.00	0.080	0.013	58	170
08-09	1215	1115	21	1.5	--	--	0.04	0.38	1.20	0.040	0.003	61	220
09-12	2015	1115	52	30	--	--	0.05	1.2	0.95	0.240	0.015	50	130
12-13	1245	0545	29	2.5	--	--	0.04	0.68	1.10	0.065	0.016	54	160
13-15	0645	1145	38	5.2	--	--	0.04	0.86	1.10	0.100	0.013	56	170
19...	1200	--	35	5.2	--	--	0.05	0.95	1.10	0.100	0.024	52	140
19-20	1215	0815	35	15	--	--	0.03	0.84	1.10	0.120	0.023	53	150
20-22	0915	1115	154	100	256	62	0.03	1.9	1.40	0.420	0.025	40	79
22-26	1155	1055	37	12	--	--	0.03	0.66	1.20	0.095	0.021	53	160
26-28	1215	0215	27	8.4	--	--	0.02	0.49	1.30	0.065	0.016	60	200
28-29	0315	1115	52	32	96	20	0.05	1.3	1.10	0.170	0.020	49	140
JUL													
10-13	1230	113	17	19	--	--	0.02	0.65	1.40	0.100	0.013	64	260
17-20	1210	1110	17	2.5	--	--	0.02	0.38	1.30	0.060	0.005	65	300
20-22	1210	1910	18	2.5	--	--	0.03	0.31	1.00	0.035	0.008	64	270
22-24	2010	1110	35	3.9	--	--	0.03	0.41	1.00	0.065	0.008	60	270
AUG													
03-04	0155	0455	14	3.3	--	--	--	0.41	1.20	0.045	0.016	64	220
04-07	0555	0055	22	19	--	--	--	0.70	1.00	0.075	0.012	63	210
14-17	1230	1130	13	2.4	--	--	0.02	0.39	1.10	0.055	0.005	65	250
17-19	1210	1510	13	1.8	--	--	<0.01	0.61	1.20	0.030	0.005	65	290
19-21	1610	1110	20	3.6	--	--	0.01	0.40	1.10	0.050	0.007	59	250
SEP													
14-17	1200	0700	24	5.6	--	--	--	--	--	0.075	0.014	55	240
14-18	1200	1100	27	--	--	--	0.03	0.49	0.89	--	--	--	-
17-18	0800	1100	36	39	90	18	--	--	--	0.175	0.018	59	210
21-22	1215	2315	15	2.9	--	--	--	0.23	--	0.035	0.009	63	260
22-25	0015	0915	17	3.1	--	--	--	0.29	--	0.045	0.010	63	280
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
13-14	1300	1500	13	0.95	--	--	--	0.26	--	0.055	0.003	65	300
14-16	1600	1200	27	3.2	--	--	--	0.40	--	0.065	0.004	60	300
16-17	1240	2340	28	4.2	--	--	--	--	--	0.050	0.007	61	260
18-19	0040	1140	35	3.6	--	--	--	--	--	0.050	0.007	61	250
NOV													
06-07	1130	1630	25	2.4	--	--	--	--	--	0.030	0.005	63	260
07-09	1730	1030	--	2.4	--	--	--	--	--	0.025	0.004	61	260
16-16	0245	1045	29	2.4	--	--	--	--	--	0.035	0.006	59	220
DEC													
11-14	1210	1110	19	0.80	--	--	--	--	1.20	0.025	0.003	63	250
29-31	1210	0710	20	0.70	--	--	0.03	0.23	1.40	0.020	0.004	76	260
DEC 31-													
JAN 02	0810	1110	46	2.1	--	--	0.05	0.13	1.30	0.035	0.004	120	250
05...	1200	--	100	36	192	35	--	--	--	0.250	0.015	76	120
16-17	1110	1310	42	34	--	--	0.03	0.85	1.30	0.100	0.008	110	200
19...	1130	--	66	35	72	11	0.04	1.1	1.50	0.080	0.015	53	120
FEB													
08-09	1105	0605	90	40	129	22	0.01	1.2	1.20	0.135	0.009	76	100
09-12	0705	1005	168	50	176	26	0.02	1.2	1.20	0.185	0.012	50	92
15-18	1230	0930	138	32	89	<5	0.04	0.86	1.00	0.110	0.008	65	96
18-20	1030	1130	74	17	--	--	0.04	0.60	1.10	0.065	0.007	58	100
20-22	1245	1745	51	20	--	--	0.02	0.65	1.00	0.070	0.007	63	120
22-23	1845	1145	207	150	352	48	0.04	1.6	0.87	0.325	0.015	51	72

04232040 Irondequoit Creek Near Pittsford, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
MAR													
08-10	1220	1120	36	4.1	--	--	<0.01	--	1.50	0.035	0.006	70	200
10-12	1220	1120	81	24	--	--	<0.01	--	1.10	0.070	0.006	60	150
19-22	1200	1100	65	13	--	--	0.02	--	0.90	0.055	0.003	60	130
APR													
02-05	1600	100	132	65	161	23	0.01	0.96	0.70	0.120	0.006	59	99
05-08	1055	1825	226	80	176	22	0.01	0.80	0.71	0.260	0.009	50	71
09-09	1135	1335	90	400	1030	113	<0.01	3.8	0.60	0.990	0.012	41	55
19-20	1430	2130	48	5.8	--	--	0.04	0.57	1.20	0.035	0.004	61	150
20-23	2230	1030	81	16	--	--	0.03	0.69	1.00	0.060	0.004	59	130
26-30	1230	1130	43	4.9	--	--	0.05	0.52	0.89	0.045	0.005	59	150
MAY													
03-04	1050	1750	29	4.5	--	--	0.05	0.39	1.30	0.030	0.003	67	200
04-07	1850	0950	75	24	--	--	0.03	1.1	0.48	0.090	0.004	59	140
10-13	1140	0640	47	5.5	--	--	0.04	0.39	1.00	0.040	0.004	61	160
13-14	0740	1040	235	200	464	59	0.05	1.6	0.91	0.480	0.012	42	82
JUN													
04-07	1210	1110	40	1.3	--	--	0.01	0.82	1.20	0.025	0.006	60	180
25...	1230	--	25	5.7	--	--	0.05	0.42	1.40	0.055	0.014	64	240
JUL													
02-04	1145	1945	20	6.8	--	--	0.03	0.50	1.30	0.055	0.013	61	220
04-05	2045	1045	22	15	--	--	0.05	0.60	1.40	0.070	0.014	60	220
05-07	1230	1530	22	18	--	--	0.02	--	1.30	0.080	0.012	64	240
09...	1130	--	26	10	--	--	0.02	--	1.30	0.055	0.011	64	230
AUG													
02-05	1045	0545	11	21	--	--	0.03	0.42	1.20	0.065	0.013	59	240
06...	1300	--	42	210	388	30	0.03	1.2	0.73	0.380	0.016	56	240
06-09	1300	1200	21	40	91	11	0.04	0.86	1.00	0.130	0.015	61	210
SEP													
07-10	1325	1225	19	26	--	--	0.04	0.77	1.30	0.110	0.011	63	240
PERIOD OCTOBER 1990 TO APRIL 1991													
OCT													
01-04	1320	1220	18	13	--	--	<0.01	0.57	0.95	0.045	0.010	56	260
09-11	1400	1300	50	31	82	14	0.03	0.64	0.73	0.120	0.025	59	190
11-13	1315	0815	69	50	127	5	0.03	1.2	0.61	0.160	0.015	53	130
13-15	0915	1215	65	32	93	16	0.03	1.1	0.89	0.140	0.016	53	120
18-22	1210	1110	40	21	--	--	<0.01	0.62	0.80	0.070	0.013	59	140
22-23	1250	1150	41	7.3	--	--	<0.01	0.79	0.85	0.045	0.012	63	190
23-25	1250	1150	63	27	--	--	<0.01	0.76	0.88	0.120	0.014	57	170
NOV													
09-09	1045	2145	31	2.6	--	--	0.06	0.66	1.00	0.045	0.004	55	160
09-13	2245	0945	67	13	--	--	0.01	0.86	0.89	0.095	0.009	59	120
DEC													
29-31	1400	1900	320	140	--	--	0.03	1.7	0.88	0.430	0.016	68	88
DEC 30-JAN 02	2000	1200	148	80	168	18	0.03	0.99	0.84	0.200	0.019	32	60
02-04	1305	1205	63	14	--	--	0.04	0.46	1.10	0.060	0.009	54	130
24-27	1600	0900	32	7.7	--	--	0.01	0.36	1.40	0.035	0.008	69	140
FEB													
19-20	1335	0835	114	70	262	32	--	--	--	0.250	0.006	69	120
20-21	0935	1235	122	45	137	20	--	--	--	0.160	0.007	46	90
MAR													
02-04	2055	1155	229	220	512	50	0.01	1.7	0.80	0.450	0.010	56	80
06...	1340	--	241	33	--	--	0.03	0.64	0.74	0.100	0.014	35	55
06-07	1730	1330	186	50	112	14	0.02	0.77	0.73	0.130	0.006	43	70
07-10	1330	2230	75	9.9	--	--	--	--	--	0.030	0.005	56	110
APR													
20-22	0515	1115	222	85	196	22	0.02	1.3	0.71	0.190	0.009	41	88
22-22	1210	2210	558	120	182	21	0.02	1.0	0.57	0.320	0.020	21	34

Surface-Water Stations

A. Discharge and water quality

04232046 Thomas Creek At Fairport, N.Y.

LOCATION.--Lat 43˚06’22", long 77˚27’44", Monroe County, Hydrologic Unit 04140101, on right bank 48 ft upstream from culvert on Foreman Center Road, 0.5 mi northwest of Fairport, and 0.8 mi upstream from mouth.

DRAINAGE AREA.--28.5 mi^2, flow from 0.86 mi^2 noncontributing.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1980 to February 1990 (discontinued).

REVISED RECORDS.--WDR NY–81–3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 403 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records rated fair to poor. Discharge subsequent to July 20, 1983 includes undetermined diversion (maximum 8 ft^3/s from July 20, 1983 through Sept. 30, 1984 and 25 ft^3/s thereafter) from Erie (Barge) Canal upstream from station. Several measurements of water temperature were made during each year.

COOPERATION.--Streamflow measurements were obtained and recorder equipment maintained by Monroe County Environmental Health Laboratory, Rochester, N.Y.

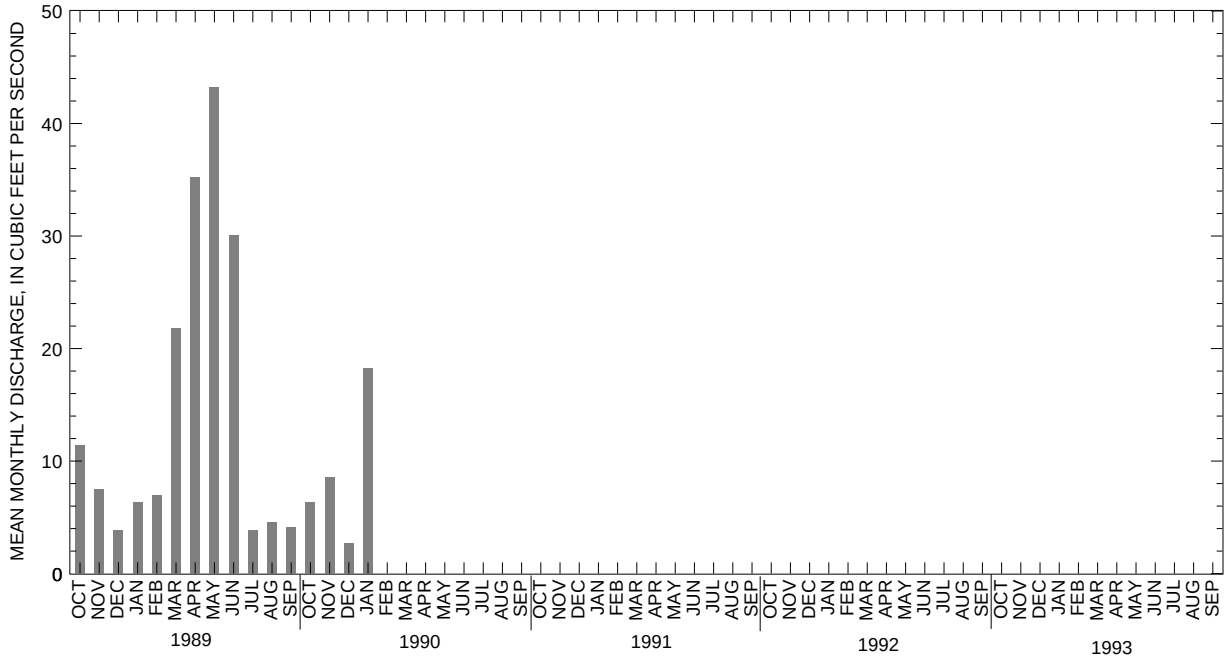
EXTREMES FOR PERIOD March 1980 to February 1990.--Maximum discharge, 232 ft^3/s, Feb. 15, 1984, gage height, 2.71 ft; maximum gage height, 3.62 ft, Jan. 12, 1982 (ice jam); minimum discharge, 1.2 ft^3/s, Sept. 12, 1989; minimum gage height, 1.22 ft, June 7, 8, 13, 1981.

STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1980-89, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10.6	18.1	20.4	12.5	23.4	28.3	26.6	21.6	13.3	6.23	7.18	6.49
MAX	25.3	31.8	44.8	25.2	54.1	43.0	41.8	51.6	30.1	12.5	12.5	9.44
(WY)	1987	1982	1984	1986	1981	1982	1987	1984	1989	1986	1986	1984
MIN	3.59	7.19	3.86	6.32	6.97	12.8	8.04	9.85	5.07	3.86	3.74	4.11
(WY)	1983	1989	1989	1989	1989	1988	1981	1986	1988	1989	1985	1989

SUMMARY STATISTICS

STATISTIC	FOR 1988 CALENDAR YEAR			FOR 1989 WATER YEAR			WATER YEARS 1980 - 1990			
ANNUAL TOTAL	3476.9			5435.7						
ANNUAL MEAN	9.50			14.9			16.1			
AVERAGE DISCHARGE							16.1			
HIGHEST ANNUAL MEAN							23.9			1984
LOWEST ANNUAL MEAN							10.4			1988
HIGHEST DAILY MEAN	87	Apr	4	123	Apr	4	219	Feb	15	1984
LOWEST DAILY MEAN	1.6	Dec	8	1.6	Dec	8	1.6	Dec	8	1988
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec	13	1.8	Sep	7	1.8	Sep	7	1989
INSTANTANEOUS PEAK FLOW							232	Feb	15	1984
INSTANTANEOUS LOW FLOW							1.2	Sep	12	1989
ANNUAL RUNOFF (CFSM)	.34			.54			.58			
ANNUAL RUNOFF (INCHES)	4.69			7.33			7.92			
10 PERCENT EXCEEDS	16			34			38			
50 PERCENT EXCEEDS	6.6			6.8			8.7			
90 PERCENT EXCEEDS	4.1			2.4			4.0			



04232046 Thomas Creek At Fairport, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to September 1989,discontinued.
  CHEMICAL DATA: 1983-89 (e).
  NUTRIENT DATA: 1983-89 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--Prior to 1994 water year, data published in WATER RESOURCES OF MONROE COUNTY NEW YORK,WATER YEARS 1984-88, U. S. Geological Survey open-file report 93-370.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
OCT											
03-04	1230	1930	5.7	2.7	<0.01	0.53	0.10	0.080	0.023	100	230
04-06	2030	0730	8.7	4.5	0.01	0.65	0.10	0.080	0.023	100	240
06-07	0830	1130	10	6.6	<0.01	0.67	0.11	0.075	0.021	83	180
07-11	1230	1130	7.4	3.5	<0.01	1.1	0.15	0.060	0.018	92	160
14...	1300	--	6.0	2.4	<0.01	0.61	0.28	0.050	0.020	100	200
14-18	1305	0405	6.4	3.0	<0.01	0.53	0.17	0.060	0.016	110	200
18-18	0505	1005	8.5	7.7	<0.01	0.76	0.17	0.080	0.019	100	190
18-21	1045	0945	6.6	3.5	<0.01	3.3	0.13	0.070	0.015	99	180
21-21	1235	2335	5.7	--	0.01	0.72	0.10	0.060	0.015	90	180
22-24	0035	1135	48	13	<0.01	0.90	0.18	0.085	0.024	70	110
24-27	1235	1135	17	--	0.01	0.93	0.14	0.060	0.020	85	130
27-28	1205	1105	9.6	2.2	0.02	0.80	0.21	0.030	0.017	100	170
28-31	1205	1105	8.1	2.8	0.01	0.76	0.21	0.030	0.016	100	180
OCT 31-											
NOV 02	1245	0545	7.2	3.3	0.20	0.84	0.27	0.080	0.016	120	210
02-03	0645	1145	9.0	2.8	0.01	0.82	0.35	0.065	0.015	110	200
03-05	1320	1620	9.6	1.8	0.02	0.71	0.29	0.045	0.012	110	190
05-07	1720	1220	14	4.8	<0.01	0.80	0.18	0.060	0.013	95	150
07-10	1310	1210	9.0	2.7	<0.01	0.74	0.19	0.045	0.012	110	170
17-18	1235	1935	3.0	1.7	0.03	0.70	0.25	0.040	0.012	120	190
18-21	2035	1135	7.3	4.2	0.03	0.82	0.31	0.050	0.012	110	150
DEC											
15-19	1210	1110	1.8	1.5	0.10	0.71	1.22	0.030	0.007	320	180
23-25	1130	1830	6.7	3.2	0.03	0.68	1.09	0.045	0.008	190	140
25-27	1930	1030	5.9	3.9	0.02	0.62	1.08	0.050	0.009	180	140
27-28	1230	0230	5.4	2.5	0.08	1.5	1.06	0.080	0.014	180	160
28-30	0330	1130	8.3	3.6	0.05	0.87	1.12	0.055	0.007	230	130
JAN											
05-07	1125	1825	3.8	2.0	0.03	1.3	1.44	0.035	0.007	220	180
07-09	1925	1025	8.8	4.9	0.06	1.0	1.37	0.055	0.007	400	140
09-12	1140	1040	6.6	3.1	0.06	0.90	1.59	0.045	0.008	240	130
12-13	1100	1040	4.8	2.2	0.02	0.74	1.72	0.035	0.002	180	140
20-23	1140	1040	4.9	4.2	0.04	1.0	1.33	0.045	0.005	180	150
26-30	1115	1015	11	4.4	0.05	1.2	1.30	0.045	0.009	170	130
FEB											
13-17	1030	0930	6.0	1.8	0.05	1.1	1.50	0.025	0.003	310	150
17-20	1130	2230	4.5	1.4	0.03	0.94	1.50	0.020	0.004	290	150
20-21	2330	1030	16	6.2	0.04	1.0	1.50	0.055	0.007	260	140
21-22	1200	1200	20	--	0.17	2.1	2.10	0.100	0.027	180	100
24...	1130	--	13	--	0.09	1.7	1.10	0.175	0.011	290	75
MAR											
03 04	1630	1130	13	2.2	0.03	1.3	2.00	0.045	0.004	200	140
04-06	1230	1130	22	9.0	0.18	1.6	1.60	0.100	0.014	300	87
09...	1120	--	7.5	2.4	0.05	1.4	2.20	0.060	0.009	150	120
13...	1115	--	6.0	2.5	0.01	1.1	1.50	0.040	0.007	110	90
16-18	1115	0215	20	5.9	0.06	1.5	1.50	0.110	0.006	120	90
18-20	0315	1015	32	3.6	0.01	1.2	1.80	0.065	0.003	140	90
23-24	1145	1445	23	1.2	0.02	1.4	1.70	0.040	0.004	150	110
24-27	1545	1045	31	2.0	0.02	1.0	1.80	0.070	0.020	130	110
27-30	1120	0420	29	2.0	0.02	1.4	1.50	0.060	0.003	120	110
30-30	0520	1020	48	7.4	0.03	1.4	1.50	0.095	0.005	100	99
MAR 30-											
APR 02	1200	1500	75	7.0	0.05	1.7	1.60	0.110	0.012	110	59
02-03	1600	1100	98	6.6	0.03	1.6	1.80	0.090	0.015	110	61
03-06	1115	1015	108	8.0	0.03	1.9	2.30	0.105	0.021	80	40
06-10	1130	1030	45	1.7	0.03	0.97	2.30	0.035	0.014	95	81

04232046 Thomas Creek At Fairport, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989-continued											
APR-continued											
10-13	1115	1015	26	1.5	0.02	0.80	0.99	0.035	0.009	110	90
13-17	1115	1015	22	1.3	0.01	1.0	1.80	0.030	0.005	110	96
27...	1115	--	10	280	0.23	1.6	0.70	0.490	0.004	200	98
APR 27-											
MAY 01	1530	1130	13	3.0	0.02	0.86	0.77	0.050	0.004	110	110
01-04	1220	1120	42	8.2	0.02	1.1	0.76	0.085	0.010	93	67
04-07	1145	0245	32	1.4	0.03	1.0	0.81	0.035	0.008	99	98
07-08	0345	1045	80	8.6	0.02	0.89	0.63	0.085	0.012	80	70
08-09	1100	2200	107	3.3	<0.01	--	1.00	0.090	0.015	65	<10
09-11	2300	1000	85	3.0	<0.01	--	1.20	0.065	0.012	5.4	<10
11-15	1135	1035	76	4.1	0.04	1.1	1.20	0.060	0.014	72	77
15-18	1145	1045	46	2.1	0.05	1.5	0.88	0.070	0.009	91	66
22-23	1140	1940	19	4.0	0.06	1.3	0.52	0.095	0.017	100	110
23-25	2040	0740	19	5.5	0.05	1.2	0.58	0.105	0.015	100	100
25-30	1115	1015	18	4.7	0.06	1.5	0.56	0.095	0.020	97	100
30-31	1130	2230	21	7.0	0.07	1.2	0.56	0.140	0.025	98	89
MAY 31-											
JUN 02	2330	1030	34	5.1	0.08	1.2	0.47	0.130	0.031	88	68
12-13	1200	0500	17	2.2	0.28	1.7	0.26	0.170	0.045	95	81
13-15	0600	1100	19	3.4	0.08	1.3	0.31	0.190	0.039	89	72
15-16	1145	1045	21	1.7	0.03	0.97	0.44	0.085	0.033	98	76
16-19	1145	1045	59	5.7	0.02	1.1	0.48	0.140	0.035	80	70
19-20	1130	0730	53	10	0.04	1.3	0.55	0.130	0.044	74	54
20-22	0830	1030	70	4.7	0.04	1.3	0.57	0.120	0.045	62	46
22-26	1025	0925	37	5.5	0.03	1.4	0.58	0.120	0.042	76	63
26-28	1150	0150	12	5.2	0.07	1.4	0.46	0.140	0.048	99	90
28-29	0250	1050	12	6.3	0.05	1.3	0.53	0.145	0.045	100	93
JUL											
10-13	1100	1000	6.1	2.6	<0.01	0.79	0.49	0.105	0.041	110	180
17-20	1130	1030	3.1	3.0	0.07	0.95	0.26	0.115	0.021	130	270
17...	1135	--	3.2	1.3	0.03	0.53	0.43	0.085	0.044	130	280
AUG											
03-04	0110	0410	3.6	0.60	0.02	0.39	0.21	0.045	0.023	120	280
04-05	0510	0410	11	21	0.02	1.1	0.18	0.175	0.041	87	230
05-07	0510	0010	21	14	0.02	0.94	0.15	0.165	0.053	65	110
14...	1120	--	2.4	1.1	0.02	0.24	0.34	0.090	0.058	120	250
14-15	1120	1920	2.3	0.95	0.04	0.71	0.21	0.090	0.041	120	260
15-17	2020	1020	3.7	1.5	0.02	0.56	0.22	0.090	0.037	110	250
17-19	1120	1420	2.7	0.95	0.01	0.51	0.18	0.065	0.030	100	320
19-21	1520	1020	4.6	2.3	0.01	0.61	0.13	0.080	0.034	100	290
AUG 31-											
SEP 05	1115	1015	2.9	60	0.06	1.8	0.07	0.270	0.013	120	320
14-16	1120	1420	12	11	--	--	--	0.105	0.025	74	230
16-18	1520	1020	13	13	--	--	--	0.125	0.028	59	120
25...	1000	--	3.0	1.6	--	0.44	--	0.090	0.054	110	230

Surface-Water Stations

A. Discharge and water quality

0423204920 East Branch Allen Creek At Pittsford, N.Y.

LOCATION.--Lat 43˚06'11", long 77˚32'01", Monroe County, Hydrologic Unit 04140101, on left bank 25 ft upstream from culvert of abandoned Conrail railroad, 0.2 mi downstream from State Highway 31, 0.7 mi northwest of Pittsford and 1.8 mi upstream from mouth.

DRAINAGE AREA.--6.96 mi^2, revised.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and discharge measurements are provided by the Monroe County Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD April 1990 to September 1993.--Maximum discharge during period April 82 to September 1993, 319 ft^3/s, Aug. 27, 1992, gage height 7.18 ft; minimum daily discharge 0.85 ft^3/s, May 30, 1993.

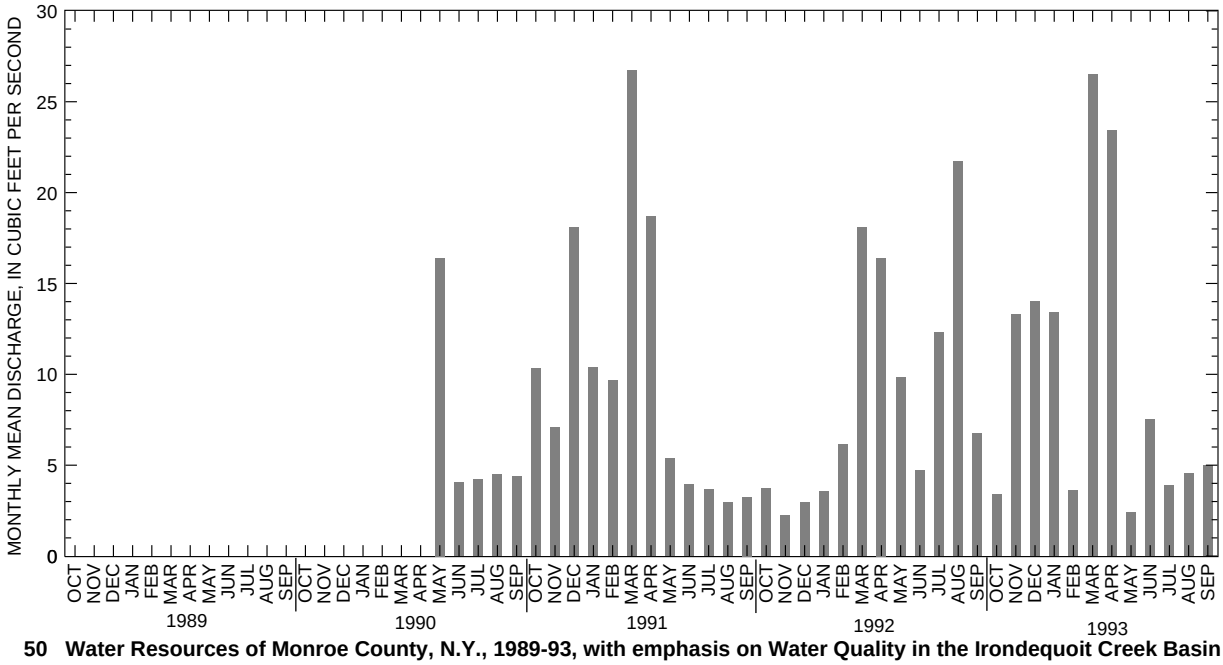
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1990 -93, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.81	7.54	11.7	9.13	6.46	23.8	19.5	8.49	5.06	6.03	8.43	4.84
MAX	10.3	13.3	18.1	13.4	9.67	26.7	23.4	16.4	7.52	12.3	21.7	6.76
(WY)	1991	1993	1991	1993	1991	1991	1993	1990	1993	1992	1992	1992
MIN	3.38	2.23	2.97	3.57	3.60	18.1	16.4	2.39	3.96	3.67	2.97	3.25
(WY)	1993	1992	1992	1992	1993	1992	1992	1993	1991	1991	1991	1991

SUMMARY STATISTICS

STATISTIC	FOR 1992 CALENDAR YEAR			FOR 1993 WATER YEAR			WATER YEARS 1990 - 1993			
ANNUAL TOTAL	3984.2			3687.52						
ANNUAL MEAN	10.9			10.1						
AVERAGE DISCHARGE							9.74			
HIGHEST ANNUAL MEAN							10.1			1993
LOWEST ANNUAL MEAN							9.07			1992
HIGHEST DAILY MEAN	167	Mar	27	163	Apr	1	230	Mar	4	1991
LOWEST DAILY MEAN	1.1	Oct	5	.85	May	30	.85	May	30	1993
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct	2	1.3	Oct	2	1.2	Nov	17	1991
INSTANTANEOUS PEAK FLOW				215	Apr	1	319	Aug	27	1992
INSTANTANEOUS PEAK STAGE				5.61	Apr	1	7.18	Aug	27	1992
INSTANTANEOUS LOW FLOW				.81		a	.81			a
ANNUAL RUNOFF (CFSM)	1.56			1.45			1.40			
ANNUAL RUNOFF (INCHES)	21.29			19.71			19.01			
10 PERCENT EXCEEDS	23			19			18			
50 PERCENT EXCEEDS	5.1			4.8			4.4			
90 PERCENT EXCEEDS	1.9			1.9			2.0			

a May 30, 31,, 1993.



0423204920 East Branch Allen Creek At Pittsford, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--1990 to current year.
CHEMICAL DATA: 1990-93 (e).
NUTRIENT DATA: 1990-93 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
09-11	1540	1240	12	31	58	10	0.03	0.84	0.57	0.130	0.020	69	66
18-18	1250	2350	27	50	100	16	0.06	1.5	0.97	0.290	0.110	61	68
19-22	0050	1150	6.9	6.9	--	--	0.02	0.83	1.50	0.080	0.036	110	120
22-23	1330	0630	4.8	13	--	--	<0.01	0.13	1.20	0.085	0.021	100	130
23-25	0730	1230	14	17	--	--	0.02	0.08	1.80	0.100	0.024	88	81
NOV													
05-09	1130	1030	6.2	12	--	--	0.03	0.85	1.50	0.100	0.015	110	120
09-13	1140	1040	16	14	--	--	0.01	1.1	1.90	0.100	0.016	100	65
13-15	1340	1240	8.5	6.5	--	--	0.03	0.79	2.30	0.065	0.016	120	72
15-19	1450	1250	7.3	7.6	--	--	0.02	1.0	2.00	0.065	0.012	120	84
22-26	1710	1010	7.4	8.0	--	--	0.02	0.74	2.00	0.065	0.012	100	70
DEC													
03-04	1300	0300	13	17	--	--	--	--	--	0.100	0.008	190	86
04-06	0400	1200	23	31	--	--	--	--	--	0.180	0.028	110	55
17-18	1335	1535	23	15	--	--	--	--	--	0.080	0.010	100	42
19-20	1635	1235	19	20	--	--	--	--	--	0.100	0.018	90	44
29-30	0930	1430	96	95	265	29	0.05	1.7	1.80	0.550	0.032	61	23
DEC 30-													
JAN 01	1530	0830	74	13	--	--	0.02	0.83	2.40	0.100	0.019	90	46
02-04	1350	1250	12	10	--	--	0.03	0.73	2.40	0.060	0.014	160	69
14-16	1530	0330	7.3	4.6	--	--	--	--	--	0.035	0.008	250	92
16-17	0430	0630	30	16	--	--	--	--	--	0.070	0.016	190	56
17...	1430	--	41	15	--	--	--	--	--	0.110	0.039	110	46
FEB													
07...	1345	--	35	16	--	--	0.03	0.70	2.40	0.095	0.025	98	37
14-15	1400	1100	4.5	19	--	--	--	--	--	0.075	0.006	270	61
19-20	1400	0700	27	30	77	22	--	--	--	0.160	0.019	99	40
20-21	0800	1300	20	11	--	--	--	--	--	0.070	0.009	110	59
FEB 28-													
MAR 02	1315	2015	15	15	--	--	0.02	0.78	1.60	0.100	0.003	200	75
02-04	2115	1215	113	230	543	63	0.02	2.3	1.40	0.300	0.030	53	25
06...	1420	--	52	10	--	--	0.02	0.62	1.80	0.085	0.022	73	47
06-08	1430	1230	37	45	150	19	--	--	--	0.230	0.011	81	51
08-11	1210	1110	9.8	5.2	--	--	--	--	--	0.040	0.013	98	69
11-14	1400	1300	5.9	3.1	--	--	--	--	--	0.030	0.004	110	82
22-23	1340	0040	9.6	3.6	--	--	--	--	--	0.030	<0.002	96	82
23-25	0140	1240	24	36	72	12	--	--	--	0.170	0.007	82	55
27-27	0455	1555	51	120	257	36	--	--	--	0.420	0.014	64	44
27-28	1655	1255	40	100	233	32	--	--	--	0.400	0.017	59	34
MAR 28-													
APR 01	1335	1235	19	6.6	--	--	--	--	--	0.050	0.006	87	47
08-10	1310	0110	12	39	92	14	--	--	--	0.140	0.010	81	110
10-10	1010	1510	17	50	149	19	--	--	--	0.230	0.016	68	92
19-20	1730	1230	15	12	--	--	<0.01	0.96	0.98	0.080	0.006	73	57
22-25	1250	1150	54	16	--	--	0.04	0.87	1.60	0.090	0.014	62	46
22...	1255	--	167	70	94	11	0.11	1.4	1.60	0.240	0.048	33	20
MAY													
16-17	1130	1030	9.3	4.3	--	--	--	--	0.80	0.045	0.009	120	220
17-17	1130	2230	2.0	9.5	--	--	--	--	--	0.360	0.022	51	70
17-20	2330	1030	6.6	7.4	--	--	--	--	--	0.070	0.016	98	140
26-27	1350	1350	10	70	140	17	--	--	--	0.240	0.031	67	96
JUN													
11-12	1200	1100	14	29	--	--	0.09	--	0.85	0.170	0.024	82	120
12-13	1200	1100	15	200	--	--	0.17	--	1.60	0.610	0.039	64	94
JUL													
01-04	1215	1515	3.4	7.7	--	--	<0.01	0.46	0.49	0.070	0.029	86	160
04-05	1615	1115	6.3	14	--	--	<0.01	0.72	0.48	0.130	0.010	85	140
05-06	1130	0730	6.7	80	113	16	0.07	0.55	0.51	0.260	0.039	60	120
07-08	0830	0430	6.0	33	30	5	--	--	--	0.120	0.032	70	140

0423204920 East Branch Allen Creek At Pittsford, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
AUG													
03-04	0420	0720	4.6	13	--	--	0.04	0.63	0.56	0.120	0.036	69	110
05-06	1225	1425	2.9	6.5	--	--	<0.01	--	--	0.070	0.032	73	150
08...	1215	--	2.3	2.7	--	--	<0.01	--	--	0.085	0.049	100	150
11-12	0300	1200	2.6	7.3	--	--	<0.01	--	0.34	0.080	0.035	95	130
SEP													
15-16	0515	1215	4.5	13	--	--	<0.01	0.60	0.46	0.100	0.031	92	120
23-25	1345	0645	4.5	8.0	--	--	<0.01	0.47	0.38	0.070	0.025	79	120
25-26	0745	1245	8.5	20	--	--	0.02	0.70	0.39	0.100	0.026	66	91
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
NOV													
28-29	1725	0325	3.2	14	--	--	--	1.1	0.83	0.110	0.016	83	95
NOV 29-DEC 02	0425	0925	3.0	8.9	--	--	--	0.67	0.43	0.070	0.016	120	140
29-29	0250	1750	21	50	131	30	0.03	--	--	0.230	0.019	190	75
29-30	1850	1350	12	39	73	14	0.03	--	--	0.180	0.034	220	84
JAN													
23...	1300	--	13	37	49	12	0.13	0.88	1.50	0.095	0.020	380	29
23-23	1555	2255	13	38	170	30	0.04	0.01	0.09	0.170	0.030	310	82
23-24	2355	1855	14	19	--	--	--	--	--	0.130	0.022	270	94
25-26	1155	1855	3.7	14	--	--	--	--	--	0.040	0.008	250	130
FEB													
14-15	1120	1020	3.0	22	--	--	0.06	0.78	1.20	0.060	0.003	580	190
15-16	1120	1020	11	75	147	33	0.12	1.5	1.40	0.210	0.007	350	87
16-18	1120	1020	10	8.3	--	--	0.05	0.94	2.70	0.075	0.014	210	50
18-19	1335	1635	12	25	--	--	0.03	0.97	2.30	0.100	0.013	200	95
19-20	1735	1135	15	28	--	--	0.03	1.1	3.20	0.120	0.016	170	83
24-27	1205	1105	10	11	--	--	0.03	0.70	4.00	0.050	0.007	170	96
MAR													
05-06	1205	2305	4.3	3.3	--	--	0.03	0.59	--	0.025	0.004	160	120
07-07	0005	2305	20	35	77	14	0.02	0.98	--	0.120	0.006	130	82
08-09	0005	1105	20	26	--	--	0.03	1.1	--	0.100	0.010	120	78
09-12	1325	1225	10	4.9	--	--	0.03	0.80	2.80	0.030	0.005	140	96
26-27	1150	1050	106	160	453	54	0.04	2.8	3.00	0.520	0.014	86	39
MAR													
30...	1300	--	26	10	--	--	0.02	0.63	3.20	0.060	0.019	95	53
MAR 30-APR 02	1250	1150	23	11	--	--	0.02	0.71	3.00	0.055	0.010	100	60
09-11	1200	0300	4.0	1.8	--	--	0.02	0.57	1.90	0.015	0.002	130	100
11-11	0400	2300	26	70	192	22	0.05	1.2	1.80	0.180	0.004	110	68
13-16	1245	1145	6.9	4.5	--	--	0.01	0.65	2.30	0.025	0.005	110	80
16-17	1205	0305	82	120	267	30	--	1.3	1.60	0.470	0.015	57	42
17-18	0405	1105	47	60	98	12	--	0.95	2.60	0.200	0.019	67	46
18-20	1205	1105	25	19	--	--	--	0.79	2.90	0.090	0.009	77	50
APR 30-MAY 02	1210	1510	7.0	2.8	--	--	--	--	1.50	0.030	0.003	110	110
02-02	1610	2310	99	250	683	101	--	--	1.10	0.740	0.024	50	46
03-04	0010	1110	52	70	119	18	--	--	1.70	0.250	0.016	63	49
30-31	1640	0340	11	20	--	--	--	--	--	0.110	0.011	71	120
31-31	0440	2340	12	18	--	--	--	--	--	0.080	0.012	72	98
JUN													
01-01	0040	1140	18	16	--	--	--	--	--	0.095	0.014	73	87
01-04	1300	1200	7.4	0.50	--	--	--	--	--	0.080	0.016	110	120
05-06	2010	1910	13	31	75	14	--	--	--	0.150	0.021	71	110
06-07	2010	1910	5.6	23	--	--	--	--	--	0.130	0.025	88	120
07-08	2010	1110	5.6	16	--	--	--	--	--	0.110	0.019	91	120
08-11	1245	1145	2.7	5.2	--	--	--	--	--	0.070	0.021	120	180
19-19	0400	1900	8.3	22	--	--	--	--	--	0.150	0.016	85	130
19-22	2000	1100	3.6	30	--	--	--	--	--	0.130	0.016	90	150
JUL													
03-03	0615	1315	3.2	17	--	--	--	--	--	0.090	0.014	82	160
03-06	1415	0915	3.7	30	44	7	--	--	--	0.095	0.015	80	140
06-08	1210	1410	2.7	12	--	--	--	--	--	0.070	0.015	95	190
08-09	1510	0210	16	40	134	16	--	--	--	0.190	0.010	60	110
09-09	0310	1110	10	180	294	24	--	--	--	0.340	0.014	54	79
09-12	1215	1515	3.9	24	--	--	--	--	--	0.110	0.023	90	130

0423204920 East Branch Allen Creek At Pittsford, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
AUG													
03-04	1250	1150	84	200	373	49	0.02	2.2	1.50	0.620	0.053	47	62
04-06	1250	1150	36	45	90	14	0.02	1.4	2.30	0.250	0.051	60	54
24-24	1220	1920	2.9	6.3	--	--	<0.01	0.61	0.80	0.080	0.023	92	160
24-25	2020	0520	44	460	--	--	--	--	--	0.930	0.047	40	60
25-27	0620	1120	7.5	45	--	--	--	--	--	0.260	0.051	72	110
27-28	1605	0305	256	220	634	82	--	--	--	1.20	0.081	19	-
28-31	0405	1105	80	70	123	20	--	--	--	0.300	0.061	43	-
SEP													
03-03	0440	1440	43	31	140	20	--	--	1.30	0.270	0.040	45	-
03-04	2040	0940	49	45	78	14	--	--	1.50	0.215	0.054	49	-
04-08	1025	0925	4.2	10	--	--	--	--	--	0.100	0.041	88	100
18-19	1610	0310	22	34	82	13	--	--	--	0.190	0.029	61	100
19-21	0410	1110	2.6	10	--	--	--	--	--	0.100	0.027	81	120
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
OCT													
09-09	1055	2155	21	95	105	59	--	--	--	0.130	0.033	46	56
09-13	2255	0955	3.0	12	--	--	--	--	--	0.100	0.028	88	120
23-24	2030	1930	11	42	56	10	--	--	--	0.140	0.015	76	110
24-26	2030	1130	11	22	--	--	--	--	--	0.120	0.024	61	76
NOV													
02-03	1250	0850	45	70	162	--	--	--	--	0.300	0.050	48	44
03-05	0950	1150	18	24	--	--	--	--	--	0.130	0.035	66	61
12-13	1630	0330	10	20	--	--	--	--	--	0.110	0.014	84	95
13-16	0430	1130	8.6	24	--	--	--	--	--	0.090	0.014	84	94
DEC													
10-11	1255	1955	4.1	5.0	11	<5	0.03	0.64	2.20	0.040	0.009	200	96
16-17	0815	1315	38	29	--	--	--	--	--	0.150	0.021	150	40
17-21	1330	1230	36	20	--	--	--	--	--	0.110	0.020	79	39
29-31	1615	1115	41	36	136	21	0.03	1.4	1.30	0.260	0.026	110	48
DEC 31-													
JAN 03	1140	0640	20	18	--	--	0.02	0.47	2.00	0.110	0.014	93	66
03-04	0740	1040	11	19	--	--	--	0.70	--	0.080	0.010	190	74
04-05	1310	0910	31	60	129	20	0.01	--	1.60	0.230	0.019	84	48
05-07	1010	1210	21	20	--	--	0.01	--	1.80	0.095	0.015	78	62
21-22	1235	1935	27	32	64	11	--	--	--	0.120	0.009	200	60
22-25	2035	1135	36	30	59	9	--	--	--	0.120	0.016	110	42
25-28	1315	1215	9.5	8.1	--	--	--	--	--	0.045	0.009	130	75
FEB													
04-08	1410	1310	4.2	3.7	--	--	0.02	0.62	1.90	0.025	0.004	230	120
MAR													
13-15	1245	1145	5.5	25	--	--	--	--	--	0.320	0.003	260	86
15-18	1100	1000	9.0	17	--	--	--	--	--	0.400	0.003	290	80
22-25	1210	1210	24	33	86	12	0.05	1.1	1.50	0.150	0.011	190	53
25-29	1135	1035	73	55	171	22	0.05	1.5	1.70	0.290	0.018	90	33
APR													
01...	1300	--	186	65	164	23	0.06	1.1	1.20	0.320	0.043	37	22
05-08	1245	1145	15	7.2	--	--	0.02	0.57	1.80	0.060	0.009	73	54
08-10	1155	1055	6.9	3.7	--	--	0.02	0.56	1.50	0.040	0.006	85	69
MAY													
20-24	1125	1025	1.7	3.4	--	--	<0.01	<0.01	1.40	0.045	0.016	130	-
JUN													
04-05	1545	1445	25	N50	123	18	--	--	--	0.230	0.017	100	150
05-07	1545	1045	16	N34	63	<11	--	--	--	0.160	0.027	97	98
18-20	2340	0240	8.8	24	--	--	0.03	0.84	0.92	0.140	0.020	100	150
20-21	0340	1040	9.1	50	80	13	0.03	0.96	0.91	0.085	0.025	88	120
21-24	1145	1045	6.6	14	--	--	0.03	0.78	0.96	0.085	0.031	93	150
JUL													
19-19	0405	1105	18	38	98	18	--	--	--	0.200	0.023	66	100
19-22	1410	1310	1.8	15	--	--	0.01	<0.01	N0.91	0.120	0.034	84	N220
AUG													
11-12	1905	0305	6.4	15	--	--	<0.01	0.62	N0.60	0.085	0.022	85	120
12-12	0405	1205	4.9	11	--	--	<0.01	--	N0.64	0.065	0.025	71	150

0423204920 East Branch Allen Creek At Pittsford, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
AUG													
11-12	1905	0305	6.4	15	--	--	<0.01	0.62	N0.60	0.085	0.022	85	120
12-12	0405	1205	4.9	11	--	--	<0.01	--	N0.64	0.065	0.025	71	150
SEP													
02-03	1715	0215	18	29	--	--	0.01	0.74	0.73	0.150	0.028	53	N110
03-03	0315	1215	7.0	75	--	--	<0.01	0.76	0.72	0.160	0.030	56	N120
15-16	0310	1110	2.2	12	--	--	0.02	0.73	0.68	0.070	0.029	100	150
26-27	0320	1020	11	50	75	12	--	--	--	0.170	0.037	92	110

04232050 Allen Creek near Rochester, N.Y.

LOCATION.--Lat 43˚07'49", long 77˚31'08", Monroe County, Hydrologic Unit 04140101, on right bank 525 ft downstream from Penn Central Transportation Co. bridge, near Rochester, and about 1.3 mi upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 mi^2, flow from 3.5 mi^2 noncontributing.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1959 to current year.

REVISED RECORDS.--WRD NY 1974: 1972(M), 1973(M, P). WDR NY–76–1: 1960–75 (M, P), 1960–63, 1972–74.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 323.54 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Discharge prior to January 1980 included undetermined diversion (maximum 20 ft^3/s) from Erie (Barge) Canal upstream from station. January 1980 to present, diversion reduced to a maximum of 3 ft^3/s for use by several golf courses adjacent to stream. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and 9 discharge measurements were provided by the Monroe County Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD November 1959 to September 1993.--Maximum discharge, 3,280 ft^3/s, May 17, 1974, gage height, 7.42 ft, from rating curve extended above 1,000 ft^3/s on basis of contracted-opening measurement of peak discharge and step-backwater analysis; minimum daily, 1.7 ft^3/s, Jan. 24, 1963; minimum gage height, 1.16 ft, Feb. 19, 1962

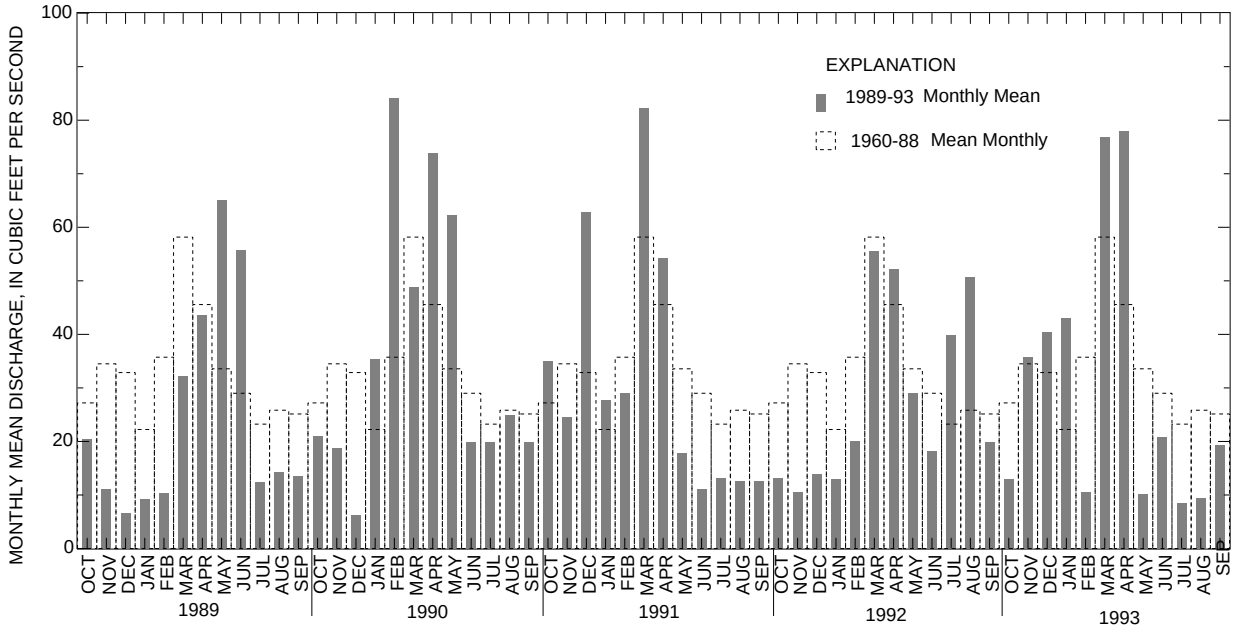
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1960-93, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.2	32.3	31.9	22.7	35.0	58.3	47.7	34.1	28.5	22.6	25.3	23.9
MAX	74.8	102	89.7	50.4	94.9	131	80.7	103	78.4	63.0	50.7	60.5
(WY)	1978	1973	1978	1969	1981	1960	1969	1974	1972	1976	1992	1977
MIN	7.99	7.42	4.80	4.40	10.4	22.6	17.8	10.1	11.2	7.18	8.84	6.07
(WY)	1962	1961	1961	1963	1989	1981	1981	1993	1991	1960	1961	1961

SUMMARY STATISTICS

STATISTIC	FOR 1992 CALENDAR YEAR			FOR 1993 WATER YEAR			WATER YEARS 1960 - 1993		
ANNUAL TOTAL	11860.7			11161.7					
ANNUAL MEAN	32.4			30.6					
AVERAGE DISCHARGE							32.1		
HIGHEST ANNUAL MEAN							50.6		1978
LOWEST ANNUAL MEAN							16.9		1962
HIGHEST DAILY MEAN	537	Mar	27	482	Apr	2	1970	Mar 30	1960
LOWEST DAILY MEAN	5.1	Oct	6	4.8	Aug	22	1.7	Jan 24	1963
ANNUAL SEVEN-DAY MINIMUM	5.8	Feb	8	5.3	Aug	24	2.3	Feb 15	1962
INSTANTANEOUS PEAK FLOW				739	Apr	1	a3280	May 17	1974
INSTANTANEOUS PEAK STAGE				4.62	Apr	1	7.42	May 17	1974
INSTANTANEOUS LOW FLOW				2.6	Aug	25	1.7	Jan 24	1963
10 PERCENT EXCEEDS	63			63			57		
50 PERCENT EXCEEDS	18			14			21		
90 PERCENT EXCEEDS	7.8			6.4			8.1		

a From rating table extended above 1,000 ft^3/s on bsis of contracted-opening measurement of peak discharge and step-backwater analysis.



04232050 Allen Creek near Rochester, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.
CHEMICAL DATA: 1983-93 (e).
NUTRIENT DATA: 1983-93 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--Prior to 1994 water year, data published in WATER RESOURCES OF MONROE COUNTY NEW YORK,WATER YEARS 1984-88, U. S. Geological Survey open-file report 93-370.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
03-04	1125	1825	18	16	--	--	0.02	0.80	0.44	0.075	0.011	91	78
04-05	1925	1725	21	14	--	--	0.01	0.76	0.45	0.070	0.009	95	83
14-16	1210	1140	15	15	--	--	0.01	0.80	0.67	0.070	0.012	120	88
18...	1010	--	71	80	228	37	<0.01	1.5	0.50	0.120	0.035	72	83
18-21	1010	0910	19	30	--	--	<0.01	1.2	0.49	0.050	0.010	86	69
21-21	1150	1950	13	--	--	--	<0.01	0.63	0.53	0.040	0.022	100	83
21-24	2250	1050	58	45	--	--	0.01	1.6	0.57	0.195	0.031	88	54
24-27	1150	1050	19	--	--	--	0.01	1.0	0.84	0.045	0.015	130	84
OCT 31-													
NOV 02	1215	0815	13	4.7	--	--	0.01	0.80	0.64	0.070	0.010	130	96
02-03	0915	1115	15	7.0	--	--	<0.01	0.80	0.82	0.105	0.014	130	85
03-04	1200	1500	8.9	3.5	--	--	0.02	0.57	0.68	0.025	0.007	140	92
04-07	1600	1100	18	39	85	18	<0.01	1.0	0.31	0.210	0.012	97	63
10...	1035	--	7.8	4.0	--	--	<0.01	0.43	0.66	0.025	0.015	150	81
17-18	1130	1830	5.4	1.4	--	--	0.13	0.74	0.48	0.060	0.015	180	94
21...	1100	--	37	24	--	--	0.02	0.75	0.53	0.110	0.029	83	48
DEC													
19...	1110	--	3.0	2.1	--	--	0.03	0.62	0.99	0.025	<0.002	330	100
30...	1100	--	9.3	3.5	--	--	0.01	0.65	0.91	0.030	0.006	400	81
JAN													
09...	1050	--	12	13	--	--	0.05	1.1	1.06	0.075	0.013	450	68
13...	1030	--	6.3	2.1	--	--	0.04	0.53	1.12	0.025	0.006	260	75
23...	1115	--	6.4	1.9	--	--	<0.01	0.69	1.06	0.030	0.005	460	89
30...	1000	--	14	5.0	--	--	0.01	0.90	0.90	0.040	0.006	340	91
FEB													
14...	0945	--	9.0	2.9	--	--	<0.01	1.2	1.20	0.025	0.002	560	98
14...	1420	--	9.0	5.2	--	--	0.03	1.2	1.20	0.085	0.004	510	95
15...	1130	--	10	6.9	--	--	0.12	1.5	1.60	0.040	0.004	950	78
21...	1045	--	67	100	228	41	0.18	3.1	1.10	0.460	0.014	510	54
21...	1400	--	79	75	169	32	0.19	2.6	1.10	0.320	0.019	1000	50
21...	1500	--	77	75	154	29	0.17	2.2	1.10	0.280	0.024	890	42
22...	1230	--	31	21	--	--	0.07	1.5	1.30	0.095	0.024	690	58
22...	1500	--	29	18	--	--	0.07	1.5	1.30	0.095	0.020	710	60
MAR													
03...	1230	--	6.0	3.4	--	--	<0.01	0.78	1.10	0.030	0.005	410	88
05-06	0930	1030	55	75	130	9	0.15	3.4	1.60	0.290	0.037	350	50
14-16	1115	1015	25	18	--	--	0.04	1.8	1.20	0.135	0.003	380	77
16-18	1100	0200	19	3.2	--	--	0.02	0.92	1.40	0.035	0.004	390	80
18-20	0300	1000	48	34	84	13	0.06	1.6	1.50	0.130	0.007	390	65
23-24	1115	1415	35	4.2	--	--	0.02	1.1	1.60	0.080	0.004	330	90
24-27	1515	1015	40	6.1	--	--	<0.01	1.0	1.50	0.085	0.004	290	90
27-30	1045	0345	34	4.0	--	--	0.02	1.6	0.98	0.070	0.002	270	100
30-30	0445	0945	44	19	--	--	0.03	1.6	1.10	0.130	0.005	230	96
MAR 30-													
APR 02	1120	1420	142	60	125	22	0.04	2.1	1.30	0.210	0.009	250	55
02-03	1520	1020	169	50	128	19	0.03	2.0	1.50	0.220	0.013	150	45
03-06	1035	0935	128	37	103	13	0.03	1.9	1.80	0.170	0.010	160	55
06-10	1040	0940	41	5.6	--	--	0.03	1.2	1.80	0.055	0.005	210	85
10-13	1015	0915	24	2.7	--	--	0.02	0.66	0.72	0.030	0.002	230	99
13-17	1035	0935	22	2.4	--	--	0.01	0.98	1.20	0.025	0.002	230	100
MAY													
01-04	1120	1020	73	24	--	--	0.12	1.5	0.72	0.155	0.006	150	56
04-07	1115	0215	29	2.3	--	--	0.05	0.98	0.70	0.040	0.008	170	83
07-08	0315	1015	223	37	131	20	0.03	1.3	0.64	0.185	0.014	120	53
08-10	1030	1530	97	11	--	--	0.02	--	1.30	0.090	0.015	130	44
08-11	1030	0930	99	--	--	--	--	2.3	--	--	--	--	--

04232050 Allen Creek near Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989-continued													
MAY-continued													
10-11	1630	0930	104	12	--	--	0.06	--	1.10	0.085	0.012	120	44
11-14	1045	1345	118	8.2	--	--	0.06	--	1.40	0.120	0.014	110	42
11-15	1045	0945	104	--	--	--	--	1.4	--	--	--	--	--
14-15	1445	0945	60	12	--	--	0.04	--	1.20	0.105	0.010	120	49
15-18	1045	0945	46	3.3	--	--	0.04	1.5	1.10	0.055	0.006	130	46
22-23	1115	1915	25	5.2	--	--	0.06	0.72	1.00	0.065	0.008	110	59
23-25	2015	1015	31	8.5	--	--	0.05	0.83	1.00	0.075	0.007	110	51
25-30	1035	0935	26	13	--	--	0.03	0.95	1.10	0.070	0.011	110	62
30-31	1030	2130	46	20	--	--	0.11	1.1	0.85	0.170	0.018	88	45
MAY 31-													
JUN 02	2230	0930	70	50	154	24	0.09	1.8	0.78	0.215	0.018	91	45
02-05	1115	1015	30	6.8	--	--	0.10	1.2	1.00	0.125	0.022	120	110
05-08	1045	0945	22	16	--	--	0.04	1.1	1.10	0.130	0.018	120	67
08-09	1050	1750	19	6.2	--	--	0.11	1.6	1.00	0.115	0.030	120	67
09-12	1850	0950	48	34	109	15	0.09	1.5	0.81	0.275	0.030	98	54
12-13	1115	0415	24	150	57	8	0.04	1.0	1.10	0.165	0.022	120	65
13-15	0515	1015	42	30	58	9	0.05	1.2	0.89	0.145	0.014	100	48
15-16	1100	1400	30	13	--	--	0.07	1.0	1.00	0.160	0.024	120	59
16-19	1500	1000	106	55	143	21	0.05	1.8	1.10	0.240	0.025	93	46
19-20	1100	0700	37	17	--	--	0.07	1.2	1.40	0.140	0.028	110	46
20-22	0800	0900	164	34	102	15	0.06	1.6	1.00	0.130	0.033	74	25
22-26	0945	0845	37	19	--	--	0.06	1.3	1.30	0.155	0.030	110	54
26-28	1100	0100	22	21	--	--	0.05	1.2	1.30	0.190	0.034	110	53
28-29	0200	1000	19	22	--	--	0.04	1.5	1.40	0.145	0.024	110	54
JUL													
17-20	1045	0945	13	18	--	--	0.04	0.99	0.64	0.150	0.013	120	100
20-24	1040	0940	15	6.5	--	--	0.08	0.72	0.66	0.110	0.017	120	100
AUG													
03-05	1230	1530	20	25	--	--	0.11	1.3	0.38	0.170	0.011	98	91
05-07	1630	1130	26	30	58	10	0.04	1.1	0.44	0.130	0.013	94	86
14-15	1050	1850	13	6.4	--	--	0.03	0.89	0.56	0.155	0.020	110	92
15-17	1950	0950	17	5.0	--	--	0.04	0.96	0.58	0.150	0.013	110	87
24...	1000	--	5.7	4.0	--	--	0.04	0.48	0.71	0.060	0.022	150	110
AUG 31-													
SEP 01	1055	1555	6.1	21	--	--	0.04	1.2	0.63	0.165	0.022	110	110
01-05	1655	0955	11	24	--	--	0.03	1.3	0.63	0.165	0.017	120	83
14-16	1040	1340	27	30	75	15	--	--	--	0.170	0.025	71	64
14-18	1040	0940	26	--	--	--	0.04	--	0.70	--	--	--	--
16-18	1440	0940	26	17	--	--	--	--	--	0.120	0.018	86	67
21-22	1030	2130	7.8	8.0	--	--	--	0.58	--	0.090	0.018	170	110
22-25	2230	0930	24	24	--	--	--	0.82	--	0.140	0.015	92	68
28...	1050	--	13	170	283	40	0.03	0.83	0.64	0.380	0.010	98	110
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
13-14	1155	0755	12	3.7	--	--	--	0.54	--	0.095	0.012	94	88
16...	1130	--	17	4.1	--	--	--	0.42	--	0.065	0.014	95	75
17-18	1300	1200	66	19	--	--	--	--	--	0.160	0.017	110	76
NOV													
06-07	1000	1500	14	20	--	--	--	--	--	0.140	0.008	140	100
07-09	1600	0900	29	39	129	15	--	--	--	0.200	0.011	110	75
14-16	2000	1000	23	8.6	--	--	--	--	--	0.090	0.007	140	83
DEC													
11-14	1130	1030	5.8	2.1	--	--	--	--	1.10	0.065	0.005	360	110
JAN													
19...	1030	--	58	26	--	--	0.22	1.2	2.10	0.095	0.022	270	98
22-25	1100	1000	34	6.8	--	--	0.13	0.94	1.90	0.065	0.007	460	100
25-29	1035	0935	27	6.5	--	--	0.08	0.75	1.90	0.050	0.007	330	100
FEB													
20-22	1155	1655	54	29	--	--	0.05	1.5	1.60	0.140	0.006	270	81
22-23	1755	1055	277	70	192	28	0.04	1.4	1.10	0.300	0.015	150	28
MAR													
01-05	1035	0930	47	13	--	--	--	0.61	--	0.060	0.007	270	84
01...	1425	--	44	6.5	--	--	0.09	0.65	1.90	0.055	0.009	340	90
08-10	1150	1050	42	6.0	--	--	0.03	--	1.70	0.055	0.007	240	99

04232050 Allen Creek near Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
MAR-continued													
10-12	1150	1050	118	28	--	--	<0.01	--	1.30	0.215	0.010	160	57
19-22	1120	1020	56	19	--	--	0.05	--	1.30	0.125	0.005	210	84
APR													
02-05	1100	1000	151	33	--	--	0.06	1.1	1.00	0.165	0.006	160	65
05-09	1025	0925	162	21	--	--	0.03	0.90	1.50	0.100	0.007	160	51
09-12	1105	1005	148	39	90	13	0.02	0.98	1.40	0.150	0.008	140	50
19-20	1110	1110	19	6.1	--	--	0.04	0.80	1.40	0.055	0.003	190	62
MAY													
03-04	1010	1710	15	7.6	--	--	0.02	1.0	0.93	0.080	0.004	150	55
04-07	1810	0910	60	23	--	--	0.02	1.1	0.92	0.110	0.004	110	43
10-13	1055	0555	26	6.8	--	--	0.06	0.79	1.00	0.075	0.005	140	62
13-14	0655	0955	183	65	164	24	0.02	1.5	0.84	0.320	0.008	75	34
17...	1110	--	248	65	211	30	0.01	1.7	0.86	0.380	0.030	63	42
JUN													
21...	1030	--	18	8.1	--	--	0.03	0.90	1.10	0.085	0.028	120	110
25...	1145	--	18	19	--	--	0.03	0.65	1.00	0.085	0.029	130	93
JUL													
02-04	1115	1615	16	4.7	--	--	0.04	0.63	0.76	0.050	0.007	120	93
04-05	1715	1015	45	40	112	21	0.05	1.1	0.88	0.200	0.011	65	60
05-08	1130	2230	18	5.0	--	--	0.02	--	0.72	0.300	0.009	120	76
08-09	2330	1030	33	6.5	--	--	0.02	--	0.62	0.075	0.006	120	80
AUG													
02-05	1015	0515	14	4.5	--	--	0.03	0.48	0.52	0.050	0.015	120	86
05-06	0615	0915	152	45	70	12	0.06	1.2	0.32	0.100	0.016	52	36
06-09	1210	1110	23	12	--	--	0.03	0.84	0.58	0.075	0.014	110	80
09-12	1130	1430	14	5.5	--	--	0.03	0.66	0.70	0.070	0.019	120	100
12-13	1530	1030	53	24	55	11	0.02	1.0	0.69	0.160	0.009	78	43
AUG 31-													
SEP 04	1230	1130	12	8.6	--	--	--	0.90	0.62	0.090	0.016	110	100
04-05	1230	0730	13	5.9	--	--	0.07	0.73	0.47	0.075	0.016	100	86
05-06	0830	1130	48	31	62	14	0.05	1.3	0.71	0.190	0.014	57	60
06-07	1255	0755	18	22	--	--	0.09	0.81	0.59	0.140	0.021	97	N75
07-10	0855	1155	35	19	--	--	0.05	0.74	0.59	0.100	0.019	94	58
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
09-11	1300	1200	54	22	--	--	0.02	0.66	0.45	0.110	0.055	80	50
11-13	1225	0325	88	19	--	--	0.05	0.70	0.54	0.095	0.012	74	25
13-15	0425	1125	61	15	--	--	0.03	0.66	1.10	0.075	0.012	75	31
22-23	1210	0810	27	9.9	--	--	0.05	0.80	0.82	0.065	0.011	94	60
23-25	0910	1110	50	16	--	--	0.03	0.72	0.98	0.075	0.013	87	46
NOV													
05-09	1200	1000	30	10	--	--	0.03	0.82	1.10	0.065	0.013	120	62
09-10	0950	0050	12	10	--	--	0.02	0.78	1.30	0.070	0.012	140	76
10-13	0150	0850	53	14	--	--	0.01	0.82	1.20	0.075	0.016	180	34
DEC													
03-04	1000	0600	42	10	--	--	--	--	--	0.065	0.008	300	76
04-05	0700	0500	137	25	--	--	--	--	--	0.140	0.023	130	37
12-16	1105	1005	22	5.9	--	--	--	--	--	0.035	0.006	210	--
16-17	1105	1005	44	17	--	--	--	--	--	0.065	0.010	130	--
18-18	0920	1720	55	10	--	--	--	--	--	0.045	0.008	140	37
18-20	1820	1020	106	26	--	--	--	--	--	0.110	0.014	100	24
29-30	0805	1805	274	33	69	13	0.02	0.98	1.00	0.150	0.018	170	20
DEC 30-													
JAN 02	1905	1105	156	19	--	--	0.02	0.73	1.60	0.090	0.018	130	28
02-04	1200	1100	33	7.2	--	--	0.03	0.66	1.90	0.050	0.013	230	50
14-15	1350	1550	13	4.5	--	--	--	--	--	0.035	0.010	330	74
15-17	1650	1250	77	18	--	--	--	--	--	0.095	0.014	330	50
17-22	1315	1215	64	12	--	--	--	--	--	0.075	0.016	200	42
FEB													
04-07	1225	1125	64	8.7	--	--	0.02	0.82	1.30	0.070	0.009	200	38
07-11	1225	1125	38	6.2	--	--	--	--	--	0.050	0.007	200	53
19-20	1245	1145	107	30	85	14	--	--	--	0.150	0.013	210	34
20-21	1245	1145	48	6.6	--	--	--	--	--	0.060	0.006	210	50

04232050 Allen Creek near Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
MAR													
02-04	2005	1105	429	120	260	10	0.03	1.7	0.90	0.420	0.017	150	25
06...	1245	--	91	11	--	--	0.01	0.77	1.50	0.070	0.015	140	42
06-08	1300	1100	104	18	--	--	--	--	--	0.100	0.011	140	45
08-11	1130	1030	29	4.1	--	--	--	--	--	0.040	0.006	170	60
22-23	1620	1520	51	18	--	--	--	--	--	0.100	0.005	150	61
23-25	1620	1120	89	28	--	--	--	--	--	0.120	0.007	130	41
27-27	0630	1730	124	40	91	16	--	--	--	0.170	0.009	100	41
27-28	1830	1130	146	50	73	12	--	--	--	0.190	0.015	89	33
MAR 28-													
APR 01	1215	1115	35	7.7	--	--	--	--	--	0.055	0.006	150	42
08-09	1150	0150	38	17	--	--	--	--	--	0.100	0.006	120	98
09-10	0250	0150	64	20	--	--	--	--	--	0.095	0.008	100	90
10-11	0250	1050	42	16	--	--	--	--	--	0.095	0.008	120	92
11-14	1215	1915	14	3.5	--	--	--	--	--	0.030	0.004	150	64
19-22	2350	0250	128	23	--	--	0.02	1.0	0.88	0.100	0.006	98	4
22-22	0350	1050	831	75	105	15	0.03	1.2	0.70	0.230	0.021	37	14
22-25	1110	1010	145	15	--	--	0.02	0.92	1.20	0.100	0.011	94	39
MAY													
16-17	1105	1005	10	2.9	--	--	--	0.91	1.00	0.045	0.004	130	91
17-17	1105	2205	31	17	--	--	--	--	--	0.140	0.005	100	70
17-20	2305	1005	16	8.5	--	--	--	--	--	0.060	0.005	120	61
26-26	1320	2220	56	26	--	--	--	--	--	0.200	0.014	120	80
26-28	2320	0920	41	26	--	--	--	--	--	0.160	0.014	77	52
JUN													
11-12	1415	0715	19	21	--	--	0.06	--	1.60	0.150	0.018	110	72
12-12	0815	1315	45	31	130	24	0.07	--	1.30	0.280	0.022	76	60
12-13	1415	1015	43	16	--	--	0.07	--	1.60	0.340	0.028	64	56
JUL													
01-04	1115	1415	9.3	7.5	--	--	<0.01	1.0	0.76	0.130	0.016	120	110
04-05	1515	1015	21	19	--	--	<0.01	1.0	0.84	0.150	0.011	90	90
05-05	1050	2150	38	32	62	13	0.05	0.71	0.91	0.190	0.022	69	80
05-07	2250	0350	23	20	46	9	0.06	0.46	0.64	0.180	0.020	79	64
07-07	0450	1250	39	20	--	--	--	--	--	0.110	0.016	81	80
07-08	1350	0950	22	9.0	--	--	--	--	--	0.090	0.013	76	84
08-09	1105	1905	13	6.0	--	--	0.03	0.53	0.57	0.050	0.010	110	92
09-11	2005	1005	11	3.0	--	--	0.03	0.57	0.64	0.035	0.010	120	92
AUG													
03-03	0345	1445	24	21	--	--	0.04	1.2	0.82	0.160	0.023	95	80
03-05	1545	1045	14	11	--	--	0.02	0.74	0.80	0.100	0.016	85	72
09-12	0730	1030	21	18	--	--	0.03	--	0.60	0.130	0.030	96	76
SEP													
15-16	0820	1120	21	18	--	--	0.03	0.74	0.85	0.130	0.018	80	46
23-24	1240	2340	11	6.1	--	--	0.02	0.78	0.65	0.060	0.018	110	90
25-26	0040	1140	43	27	--	--	<0.01	0.93	0.59	0.140	0.018	59	56
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
OCT													
17-19	1220	0320	13	6.1	--	--	0.01	0.74	0.91	0.065	0.013	120	--
NOV													
28-29	2020	1020	37	24	--	--	--	0.96	0.60	0.170	0.015	220	57
NOV 29-													
DEC 02	1120	0820	17	8.2	--	--	--	0.63	0.80	0.065	0.014	150	59
03-03	0255	1355	85	41	--	--	0.02	1.4	0.49	0.230	0.016	480	52
03-05	1455	1055	23	18	--	--	0.02	0.78	0.78	0.100	0.018	260	60
29-29	0525	2025	83	54	121	30	0.03	--	--	0.230	0.017	350	55
29-30	2125	1225	79	32	56	11	0.02	--	--	0.140	0.025	290	55
30...	1230	--	--	--	--	--	--	--	--	--	--	--	--
DEC 30-													
JAN 02	1305	1205	19	9.3	--	--	0.03	0.96	1.50	0.075	0.013	390	80
23...	1140	--	58	15	--	--	0.11	0.67	1.70	0.045	0.010	830	30
23-24	1145	1345	59	25	--	--	--	--	--	0.140	0.011	600	68
24-25	1530	0130	29	11	--	--	--	--	--	0.065	0.011	520	76

04232050 Allen Creek near Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
FEB													
14-15	1035	0935	6.5	--	--	--	0.02	0.50	1.20	0.035	0.006	770	110
15-16	1035	0935	48	50	140	29	0.17	1.8	1.20	0.260	0.006	700	110
16-18	1035	0935	30	16	--	--	0.07	0.90	1.60	0.085	0.011	420	69
18-19	1210	1510	36	34	48	12	0.03	0.96	1.50	0.120	0.008	410	77
19-20	1610	1010	48	25	--	--	0.03	1.1	1.70	0.140	0.012	370	75
20...	1040	--	39	--	--	--	--	--	--	--	--	--	--
20-22	1050	0950	29	7.0	--	--	--	0.63	2.10	0.045	0.010	370	90
22-24	1050	0950	38	19	--	--	--	0.83	1.90	0.075	0.010	330	80
24-27	1120	1020	27	7.0	--	--	0.02	0.65	2.50	0.050	0.010	340	90
27-28	1040	1340	20	3.8	--	--	0.02	0.83	2.40	0.045	0.008	290	95
28-29	1440	0540	47	31	101	22	0.05	1.6	1.60	0.170	0.008	310	80
FEB 29-													
MAR 02	2240	0940	21	4.1	--	--	0.02	0.85	2.00	0.060	0.006	380	92
05-07	1045	0145	16	3.3	--	--	0.01	0.63	--	0.035	0.003	290	97
07-08	0245	0145	71	45	113	22	<0.01	1.2	--	0.160	0.003	280	76
08-09	0245	0945	53	33	70	14	0.02	1.2	--	0.120	0.008	230	66
09-12	1155	1055	37	11	--	--	0.02	1.0	1.80	0.065	0.006	250	73
26-27	1035	1335	330	140	449	207	0.05	2.4	1.40	0.660	0.012	180	39
27-30	1435	0935	179	40	101	14	0.03	1.3	1.80	0.200	0.014	230	43
MAR 30-													
APR 02	1105	1005	71	13	--	--	0.01	0.83	1.40	0.170	0.008	130	110
09-11	1035	0535	14	2.4	--	--	0.02	0.73	1.50	0.045	0.003	250	85
11-12	0635	0105	87	60	186	28	0.04	1.6	1.30	0.210	0.003	200	57
12-13	0105	0935	82	75	152	20	0.02	1.5	1.40	0.380	0.007	150	50
13-16	1110	1010	23	5.4	--	--	0.01	0.71	1.50	0.050	0.004	220	74
16-17	1040	0540	214	75	215	32	--	1.5	1.10	0.310	0.011	110	37
17-18	0640	1340	123	31	65	11	--	0.97	1.40	0.150	0.008	130	47
18-20	1440	0940	76	22	--	--	--	0.94	1.40	0.120	0.006	140	51
APR 30-													
MAY 02	1050	1350	19	3.2	--	--	0.01	--	1.20	0.055	0.002	170	78
02-03	1450	0150	228	100	417	71	0.08	--	0.81	0.510	0.014	86	37
03-04	0250	0950	119	60	126	19	0.04	--	0.89	0.200	0.011	110	38
04-07	1100	1000	86	8.4	--	--	--	--	--	0.065	0.004	140	84
30-31	0725	0625	27	37	98	26	--	--	--	0.210	0.009	120	100
MAY 31-													
JUN 01	0725	0225	34	22	--	--	--	1.0	--	0.110	0.011	96	61
01-01	0325	1025	51	26	--	--	--	1.0	--	0.140	0.011	98	73
01-04	1110	1010	21	11	--	--	--	--	--	0.065	0.013	140	81
05-06	1900	1800	28	24	--	--	--	--	--	0.160	0.015	130	77
06-08	1900	1000	42	47	102	19	--	--	--	0.190	0.015	110	50
08-11	1115	1015	16	14	--	--	--	--	--	0.110	0.017	160	86
19-19	0645	2145	26	35	94	16	--	--	--	0.235	0.014	120	97
19-22	2245	0945	14	20	--	--	--	--	--	0.145	0.020	120	81
JUL													
03-04	0950	0050	18	39	108	18	--	--	--	0.190	0.012	100	85
04-06	0150	0850	21	25	--	--	--	--	--	0.120	0.015	100	70
06-08	1035	1535	13	5.6	14	<5	--	--	--	0.070	0.018	130	100
08-09	1635	0935	58	55	160	24	--	--	--	0.230	0.017	80	69
09-12	1050	1350	18	16	--	--	--	--	--	0.120	0.020	110	86
AUG													
03-04	1130	1330	213	110	310	41	0.04	2.0	0.94	0.210	0.044	66	41
04-06	1430	1030	76	38	76	14	0.02	1.3	1.20	0.210	0.043	85	42
24-24	1045	2145	5.7	2.7	--	--	0.02	0.52	0.91	0.055	0.010	160	110
24-25	2245	0945	35	95	--	--	--	--	--	0.400	0.010	96	68
25-27	1045	0945	54	38	--	--	--	--	--	0.180	0.031	95	53
27-28	1445	0945	203	170	335	41	--	--	--	0.240	0.048	48	-
28-31	1045	0945	170	50	93	15	--	--	--	0.230	0.049	60	-
SEP													
03-03	0325	1425	38	20	--	--	--	--	1.40	0.155	0.030	100	-
03-04	1525	0925	76	45	108	19	--	--	0.75	0.250	0.038	55	-
04-08	0950	0850	18	10	--	--	--	--	--	0.100	0.035	130	64
18-19	1440	0940	35	26	75	14	--	--	--	0.180	0.020	100	89
19-21	1040	0940	17	10	--	--	--	--	--	0.085	0.024	99	65

04232050 Allen Creek near Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
OCT													
09-13	1015	0915	20	17	--	--	--	--	--	0.120	0.025	110	68
23-24	2320	2220	31	24	--	--	--	--	--	0.110	0.018	110	79
24-26	2320	1020	27	22	--	--	--	--	--	0.095	0.018	90	52
NOV													
02-03	1430	0730	107	60	140	26	--	--	--	0.310	0.046	67	37
03-05	0830	1130	51	24	--	--	--	--	--	0.130	0.030	87	46
12-13	1120	0620	22	6.5	--	--	--	--	--	0.070	0.019	120	120
13-16	0720	1020	20	12	--	--	--	--	--	0.060	0.018	120	76
DEC													
10-11	1140	1840	12	3.6	21	19	0.01	0.73	1.70	0.045	0.007	450	80
16-17	0645	1145	105	42	95	17	--	--	--	0.170	0.014	260	44
17-17	1210	2310	176	40	105	17	--	--	--	0.190	0.020	170	31
18-21	0010	1110	91	16	--	--	--	--	--	0.095	0.019	140	39
29-31	1700	1000	146	50	118	21	0.04	1.5	0.88	0.190	0.021	160	42
DEC 31-													
JAN 03	1030	0530	67	16	--	--	0.01	0.84	1.30	0.100	0.016	150	50
03-04	0630	0930	38	1.1	--	--	--	--	--	0.055	0.011	400	68
04-05	1155	0755	116	36	77	14	<0.01	--	0.93	0.170	0.015	170	48
05-07	0855	1055	71	22	--	--	<0.01	--	1.20	0.100	0.018	140	52
21-22	1135	1835	74	31	62	12	--	--	--	0.120	<0.005	320	61
22-25	1935	1035	101	26	--	--	--	--	--	0.110	0.011	210	38
25-28	1155	0900	34	14	--	--	--	--	--	0.060	0.005	250	57
FEB													
04-06	1245	0145	11	2.6	--	--	<0.01	0.58	1.30	0.030	0.002	600	86
MAR													
22-25	1025	0925	88	38	87	14	0.03	1.1	1.20	0.160	0.013	330	49
25-29	1020	0920	204	45	116	16	0.04	1.2	1.20	0.200	0.021	150	33
29-30	1040	0040	378	50	125	16	0.03	1.1	1.10	0.240	0.028	82	25
MAR 30-													
APR 01	0140	0940	279	45	90	13	0.02	1.0	1.10	0.210	0.024	76	26
01-02	1110	1510	513	75	--	--	--	--	--	0.250	0.028	69	24
02-05	1910	0910	140	16	--	--	<0.01	0.72	1.50	0.095	0.020	120	40
05-08	1100	1035	52	5.2	--	--	<0.01	0.65	1.40	0.060	0.006	140	50
08-10	1040	0940	34	3.2	--	--	<0.01	1.0	1.20	0.050	0.003	150	61
20-24	1010	0910	6.5	1.8	--	--	0.00	0.84	1.70	0.085	0.022	210	--
MAY 31-													
JUN 01	2145	0845	20	36	83	15	--	--	--	0.230	0.020	120	69
05-05	0630	1730	170	N160	401	54	--	--	--	0.480	0.024	120	70
05-07	1830	0930	42	N40	73	11	--	--	--	0.150	0.022	150	65
19-20	0225	0925	24	26	--	--	0.02	1.0	1.00	0.170	0.027	130	100
20-21	1025	0925	26	80	115	22	0.03	1.2	0.97	0.210	0.022	98	61
21-24	1025	0925	16	16	--	--	0.02	0.72	1.00	0.120	0.029	140	95
JUL													
19-19	0240	0940	13	31	117	21	--	--	--	0.210	0.025	130	100
19-22	1235	1135	15	24	--	--	0.02	<0.10	N0.97	0.130	0.032	130	N74
AUG													
11-11	1730	2230	32	19	--	--	<0.01	0.82	N0.66	0.150	0.027	130	96
11-12	2330	1030	22	48	79	13	0.02	0.90	N0.76	0.220	0.037	94	67
26-30	1025	0125	5.1	0.35	--	--	<0.01	N0.79	--	0.080	0.025	150	98
SEP													
02-03	1555	2055	53	70	--	--	0.01	1.4	0.82	0.160	0.032	64	53
03-06	2155	1355	19	29	--	--	0.01	1.1	N0.66	0.430	0.032	120	64
26-27	0215	0915	47	70	131	21	--	--	--	0.260	0.031	78	64

Surface-Water Stations

A. Discharge and water quality

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

LOCATION.--Lat 43˚08'42", long 77˚30'44", Monroe County, Hydrologic Unit 04140101, on right bank 4,000 ft upstream from bridge on Blossom Road, 1.8 mi east of Rochester, 1.7 mi downstream from Allen Creek, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2, flow from 8.45 mi^2 noncontributing.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements water years 1977–80. December 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.87 ft above sea level (levels by Corps of Engineers). Prior to Oct. 1, 1991, at site 0.8 mi downstream at datum 1.56 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Discharge includes undetermined diversion from Erie (Barge) Canal. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and 8 discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD December 1980 to September 1993.--Maximum discharge, 1,710 ft^3/s, Apr. 2, 1993, gage height, 9.12 ft; minimum discharge, 28 ft^3/s, Sept. 11, 14, 1982, gage height, 1.69 ft.

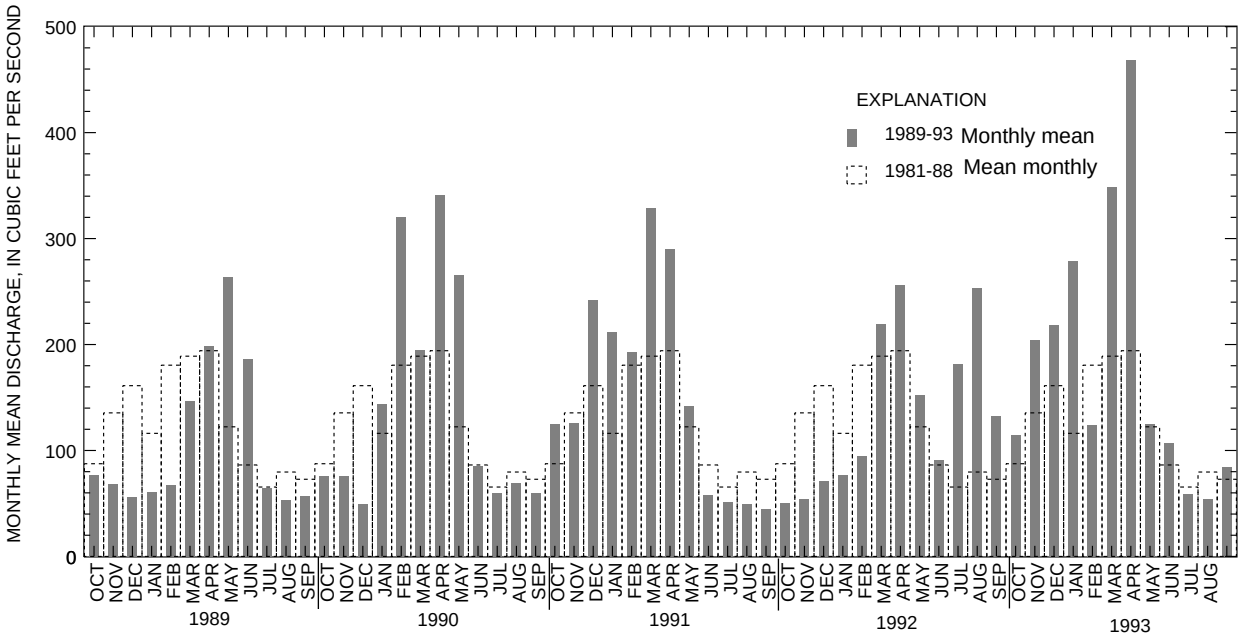
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1981-93, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	87.9	123	148	131	173	211	239	148	93.7	72.3	85.9	73.9
MAX	188	224	242	279	347	348	468	292	186	181	253	132
(WY)	1987	1986	1987	1993	1981	1993	1993	1984	1989	1992	1992	1992
MIN	39.5	54.5	49.5	60.8	67.1	122	90.8	67.8	46.9	42.2	40.8	44.6
(WY)	1983	1992	1990	1989	1989	1988	1981	1982	1988	1983	1985	1991

SUMMARY STATISTICS

STATISTIC	FOR 1992 CALENDAR YEAR		FOR 1993 WATER YEAR		WATER YEARS 1981 - 1993		
ANNUAL TOTAL	60905		66550				
ANNUAL MEAN	166		182				
AVERAGE DISCHARGE					134		
HIGHEST ANNUAL MEAN					182		1993
LOWEST ANNUAL MEAN					98.2		1988
HIGHEST DAILY MEAN	970	Mar 28	1630	Apr 2	1630	Apr 2	1993
LOWEST DAILY MEAN	39	Feb 9	42	Aug 28	29	Aug 20	1985
ANNUAL SEVEN-DAY MINIMUM	44	Feb 6	44	Aug 24	30	Aug 17	1985
INSTANTANEOUS PEAK FLOW			1710	Apr 2	1710	Apr 2	1993
INSTANTANEOUS PEAK STAGE			9.12	Apr 2	9.12	Apr 2	1993
INSTANTANEOUS LOW FLOW			40	Aug 29	28	a	
10 PERCENT EXCEEDS	322		365		259		
50 PERCENT EXCEEDS	122		122		90		
90 PERCENT EXCEEDS	63		54		46		

a Sept. 11, 14, 1982



0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.
CHEMICAL DATA: 1983-93 (e).
NUTRIENT DATA: 1983-93 (e).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--Prior to 1994 water year, data published in WATER RESOURCES OF MONROE COUNTY NEW YORK, WATER YEARS 1984-88. U.S. Geological Survey Open-File Report 93-370.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
02-03	1405	0905	53	--	--	--	0.02	0.78	0.64	0.065	0.010	110	190
03-04	1050	1750	56	8.4	--	--	0.01	0.64	0.65	0.105	0.015	99	190
04-05	1850	2150	66	9.4	--	--	0.02	0.74	0.62	0.105	0.013	95	190
05-07	2250	0950	74	18	--	--	<0.01	0.67	0.58	0.055	0.011	88	170
07-11	1100	1000	56	6.6	--	--	<0.01	0.72	0.66	0.065	0.012	100	160
11-14	1055	0955	53	14	--	--	<0.01	0.82	0.69	0.045	0.010	110	190
14-17	1110	0210	55	17	--	--	<0.01	0.68	0.74	0.070	0.011	110	200
17-18	0310	0210	55	20	--	--	<0.01	0.89	0.63	0.090	0.009	100	200
18-18	0310	0910	92	50	220	37	<0.01	1.6	0.59	0.260	0.011	100	200
18-21	0945	0845	64	100	--	--	0.02	0.90	0.53	0.470	0.013	90	170
21-21	1105	1905	51	45	--	--	0.02	1.2	0.59	0.375	0.017	100	200
21-24	2005	1005	224	340	--	--	0.02	4.6	0.54	1.15	0.021	76	130
24-27	1100	1000	97	--	--	--	0.02	1.7	0.71	0.260	0.020	100	160
27-31	1010	0910	67	4.8	--	--	0.01	0.56	0.81	0.045	0.013	110	190
OCT 31-													
NOV 02	1115	0715	60	8.0	--	--	0.02	0.67	0.81	0.125	0.012	120	210
02-03	0815	1015	69	7.1	--	--	<0.01	0.60	0.87	0.135	0.010	110	200
03-05	1115	1415	66	1.5	--	--	0.02	0.55	0.77	0.015	0.008	110	210
05-07	1515	1015	105	14	--	--	0.02	0.59	0.51	0.070	0.009	90	160
07-10	1110	1010	66	4.3	--	--	0.06	0.62	0.59	0.040	0.012	100	180
10-14	1020	0920	51	2.3	--	--	<0.01	0.49	0.76	0.020	0.011	110	210
14-17	1020	0920	47	2.6	--	--	0.02	0.82	0.82	0.025	0.008	120	220
17-18	1030	1730	40	12	--	--	0.03	0.41	0.93	0.020	0.013	120	210
18-21	1830	0930	58	90	--	--	0.03	2.9	0.73	0.515	0.009	88	130
21-23	1045	0945	108	6.9	--	--	0.02	0.57	0.77	0.050	0.013	93	160
23-25	1045	0945	106	5.2	--	--	0.01	0.57	0.68	0.050	0.008	120	160
25-28	1055	0955	67	3.7	--	--	0.02	0.62	0.89	0.045	0.008	120	190
NOV 28-													
DEC 01	1030	0930	63	3.2	--	--	0.01	0.44	0.91	0.035	0.006	120	230
02-05	1400	1300	58	8.0	--	--	0.01	0.66	0.71	0.080	0.003	120	240
05-08	1110	1010	52	3.0	--	--	<0.01	0.48	0.70	0.060	0.002	120	220
07...	0200	--	54	2.2	--	--	0.02	0.55	0.93	0.040	0.004	120	230
08-11	1125	0225	51	1.7	--	--	0.01	0.51	0.77	0.030	<0.002	120	210
11-12	0325	1025	50	2.9	--	--	0.01	0.56	0.85	0.040	0.002	130	230
15...	1030	--	47	5.6	--	--	0.12	0.56	1.13	0.040	0.007	410	230
19-19	1010	1010	40	2.2	--	--	0.05	0.68	1.12	0.020	0.005	160	270
19-20	1045	0945	44	4.1	--	--	0.04	1.2	1.10	0.120	0.002	150	260
20-22	0915	0815	59	5.3	--	--	0.01	0.71	0.97	0.090	0.004	160	220
22-23	1005	0905	59	3.1	--	--	0.02	0.51	0.75	0.050	0.003	140	220
23...	1010	--	59	4.4	--	--	0.05	0.65	0.95	0.050	0.006	170	210
23...	1015	--	59	3.7	--	--	0.03	0.61	0.99	0.035	0.007	170	220
23-24	1100	0600	63	2.7	--	--	<0.01	0.59	0.77	0.045	0.003	170	200
24-27	0700	1000	70	3.8	--	--	<0.01	0.62	0.79	0.030	0.003	160	190
27-28	1125	0125	57	2.1	--	--	0.02	0.58	0.83	0.025	0.002	160	200
28-30	0225	1025	85	5.3	--	--	<0.01	0.70	0.83	0.040	0.002	200	170
JAN													
03-05	1125	0925	46	3.4	--	--	0.03	0.74	0.96	0.070	0.003	190	230
05-07	1000	2100	54	2.6	--	--	0.01	1.5	1.14	0.055	0.004	210	240
07-09	2200	0900	94	8.7	--	--	<0.01	0.74	1.04	0.065	0.004	320	200
09-13	1030	0930	68	3.7	--	--	0.03	0.41	1.04	0.035	0.003	200	200
13-17	1000	0900	53	2.0	--	--	0.01	0.49	1.12	0.025	0.002	170	210
17-20	1045	0945	48	1.5	--	--	0.02	1.1	0.99	0.025	0.003	160	210
20-23	1030	0930	43	2.1	--	--	<0.01	0.74	1.02	0.035	0.002	180	210
23-25	1050	2150	50	1.9	--	--	0.01	0.52	0.95	0.035	0.003	170	210
25-26	2250	0950	86	3.6	--	--	<0.01	0.72	0.99	0.060	0.004	180	210
26-30	1000	0900	85	16	--	--	0.02	1.1	0.97	0.075	0.005	190	160

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989-continued													
JAN 30-													
FEB 02	0940	0840	80	3.8	--	--	<0.01	0.78	0.89	0.050	0.004	150	170
02-06	1140	1040	61	2.0	--	--	<0.01	0.95	1.00	0.020	0.003	190	190
06-09	1000	0900	51	2.4	--	--	0.01	0.80	1.00	0.030	0.021	230	200
09-13	1115	0915	44	2.8	--	--	<0.01	0.72	1.10	0.030	0.002	200	210
13-17	0920	0820	46	2.2	--	--	<0.01	0.73	1.10	0.020	0.002	280	200
17-20	1020	2120	45	1.8	--	--	<0.01	0.80	1.10	0.025	0.006	260	210
20-21	2220	0920	125	2.8	--	--	<0.01	0.78	1.00	0.025	0.007	240	210
21-24	1030	0930	150	--	--	--	0.01	2.5	1.10	0.340	0.003	220	120
24-27	0945	0845	79	3.2	--	--	0.01	1.1	1.30	0.060	0.004	200	170
FEB 27-													
MAR 02	1130	1030	62	1.9	--	--	0.02	0.94	1.20	0.040	0.004	270	180
02-04	1145	1045	69	3.6	--	--	0.02	1.8	1.10	0.045	0.004	200	190
04-05	1145	1045	192	90	200	39	0.02	2.6	1.20	0.320	0.003	440	120
05-06	1145	0945	244	170	480	64	0.03	3.7	1.30	0.590	0.007	200	90
06-07	1015	0315	195	50	157	28	0.03	2.1	1.30	0.200	0.004	170	94
07-09	0415	0915	135	13	--	--	0.02	1.3	1.40	0.115	0.003	180	130
09-13	1015	0915	69	2.1	--	--	0.02	0.84	1.30	0.035	0.004	200	180
13-16	1045	0945	102	25	81	11	0.01	1.2	1.10	0.155	0.002	210	150
15...	0200	--	135	20	--	--	0.02	0.72	1.10	0.035	0.002	200	140
16-18	1000	0100	128	3.7	--	--	0.05	1.0	0.95	0.090	0.004	160	120
18-20	0200	0900	211	100	370	41	0.05	2.4	1.30	0.345	0.005	200	100
20-23	1030	0930	149	28	--	--	0.02	1.3	1.40	0.115	0.005	230	120
23-24	1015	1315	122	2.1	--	--	0.09	0.55	1.20	0.090	0.006	190	120
24-27	1415	0915	160	45	200	19	0.03	0.50	1.40	0.265	0.005	170	120
27-28	1000	1200	136	25	91	28	0.08	1.7	1.10	0.280	0.008	140	130
28-30	1300	0300	158	50	250	25	0.03	2.2	0.94	0.395	0.005	150	130
30-30	0400	0900	312	55	--	--	0.03	2.1	0.88	0.250	0.005	140	130
MAR 30-													
APR 02	1045	1345	459	270	849	128	0.06	4.8	1.30	1.06	0.011	160	86
02-03	1445	0945	590	300	853	136	0.04	4.6	1.50	1.10	0.010	130	69
03-06	1045	0945	558	210	818	83	0.03	4.5	1.70	1.10	0.013	100	70
06-06	1000	1300	371	90	--	--	0.04	2.9	1.70	0.575	0.019	110	96
06-10	1400	0900	241	55	174	26	0.02	1.6	1.40	0.245	0.014	120	110
10-13	0950	0850	137	13	--	--	0.02	0.73	0.63	0.145	0.008	130	130
13-17	0950	0850	115	6.4	--	--	0.01	0.72	1.20	0.090	0.008	130	140
17-20	0950	0850	110	24	--	--	0.02	0.78	1.20	0.160	0.006	130	150
20-24	1215	1115	80	33	--	--	0.02	1.3	1.20	0.195	0.008	130	160
24-27	0945	0845	72	26	--	--	0.02	0.84	1.10	0.200	0.005	130	160
27-29	1000	1300	71	45	212	34	0.02	1.2	1.00	0.250	0.007	120	150
APR 29-													
MAY 01	1400	0900	83	75	391	63	<0.01	1.5	1.20	0.360	0.005	120	150
01-04	1040	0940	274	95	902	135	0.04	4.4	0.82	0.955	0.007	100	93
04-07	1020	0120	148	80	497	58	0.04	2.4	0.90	0.550	0.009	110	110
07-08	0220	0920	486	290	1690	200	0.02	9.5	0.74	1.98	0.009	100	83
08-10	0955	1455	564	200	1180	156	0.03	--	1.10	0.265	0.011	77	59
10-11	1555	0855	489	170	653	83	0.02	--	1.10	0.165	0.010	90	66
11-14	1015	1315	560	200	883	113	0.05	--	1.30	1.07	0.016	77	59
14-15	1415	0915	331	200	866	124	0.02	--	1.20	1.19	0.013	87	70
15-18	1010	0910	277	110	525	77	0.05	3.5	1.00	0.655	0.013	89	66
18-22	1015	0915	152	65	344	50	0.04	2.8	1.20	0.505	0.015	100	92
22-23	1030	1830	123	65	344	46	0.06	2.2	1.20	0.470	0.018	98	120
23-25	1930	0930	131	90	482	72	0.03	2.3	1.20	0.625	0.016	96	110
25-26	0945	0345	125	80	408	47	0.09	2.2	1.30	0.540	0.013	99	130
26-26	0445	0845	131	200	887	129	0.09	3.2	1.30	0.190	0.014	96	120
30-31	1015	2120	135	380	1190	171	0.12	5.7	0.90	1.78	0.026	83	89
30...	1030	--	127	9.0	--	--	0.02	1.3	1.10	0.170	0.022	95	130
MAY 31-													
JUN 02	2220	0915	206	150	650	92	0.06	3.3	1.10	0.810	0.023	87	98
02-05	1030	0930	120	210	788	125	0.06	4.1	1.00	0.940	0.033	94	100
05-08	1000	0900	85	70	354	62	0.02	2.1	1.10	0.480	0.028	100	120
07...	0200	--	79	5.4	--	--	0.02	0.88	1.20	0.080	0.022	110	130
08-09	1015	1715	87	170	637	78	0.05	3.3	1.10	0.920	0.034	90	110
09-12	1815	0915	190	220	921	113	0.11	4.0	0.78	1.21	0.037	71	73
12-13	1015	0315	106	160	563	78	0.04	3.2	1.10	0.950	0.036	95	100
13-14	0415	1215	137	160	692	88	0.05	3.7	0.92	0.200	0.008	87	87
14-15	1315	0915	125	160	524	65	0.03	3.7	1.10	0.175	0.019	94	110

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989-continued													
JUN-continued													
15-16	1010	1310	122	130	451	59	0.05	1.8	<0.01	0.700	0.039	91	100
16-19	1410	0910	350	380	980	121	0.05	4.9	1.10	1.40	0.035	78	76
19-20	1010	0610	228	130	440	55	<0.01	2.5	1.30	0.630	0.046	88	82
20-22	0710	0910	498	290	924	138	<0.01	4.6	1.20	1.45	0.038	63	51
22-26	0925	0825	203	75	396	64	<0.01	2.6	1.40	0.675	0.056	79	71
26-27	1020	0020	115	90	316	58	0.03	2.5	1.40	0.530	0.048	99	110
28-29	0120	0920	117	75	231	34	0.02	2.6	1.40	0.340	0.039	93	120
JUN 29-													
JUL 03	0955	0855	88	31	--	--	0.02	1.3	1.20	0.200	0.039	93	120
03-06	0920	0820	74	32	81	16	0.02	1.1	1.30	0.200	0.033	100	160
06-10	1045	0945	76	23	--	--	0.02	0.92	1.20	0.180	0.030	96	150
10-13	0955	0855	82	37	--	--	0.04	1.7	1.20	0.270	0.029	92	140
13-17	1020	0920	59	20	--	--	0.05	0.88	1.10	0.225	0.028	100	170
17-20	1010	0910	58	17	--	--	0.02	0.77	0.95	0.160	0.012	110	91
20-23	0950	0450	61	22	--	--	0.06	0.80	1.00	0.170	0.020	110	190
23-24	0550	0850	66	36	163	--	0.04	1.2	1.00	0.260	0.016	94	210
24-27	1040	0940	50	24	--	--	0.02	0.94	0.94	0.190	0.017	100	170
27-31	1000	0900	49	16	--	--	0.03	0.72	0.91	0.160	0.018	100	180
JUL 31-													
AUG 03	0955	085	45	--	--	--	<0.01	0.52	0.85	0.120	0.014	100	190
03-04	1150	1450	59	26	--	--	<0.01	1.1	0.88	0.135	0.021	100	190
04-05	1550	1450	123	60	468	63	0.04	3.1	0.88	0.765	0.029	83	160
05-07	1550	0950	93	190	687	95	0.03	4.0	0.72	1.07	0.032	77	130
07-10	1000	0900	51	70	266	44	0.01	1.9	0.83	0.370	0.031	110	190
10-11	1100	1000	46	45	159	18	0.01	0.96	0.80	0.250	0.019	120	190
10...	1115	--	44	16	--	--	0.02	0.76	0.78	0.120	0.019	110	190
11...	1110	--	44	5.9	--	--	0.02	0.20	0.80	0.075	0.017	120	190
14...	1015	--	41	4.3	--	--	0.02	0.30	0.81	0.070	0.016	100	180
14-15	1015	1815	43	5.9	--	--	0.02	0.74	0.77	0.125	0.019	100	180
15-17	1915	0915	47	5.0	--	--	0.02	0.68	0.76	0.115	0.017	99	170
16...	1400	--	48	5.8	--	--	<0.01	0.68	0.81	0.088	0.006	97	170
17-19	1000	1700	50	4.9	--	--	0.01	0.56	0.68	0.085	0.014	100	180
19-21	1800	0900	85	26	--	--	0.01	1.0	0.62	0.155	0.015	81	140
21-24	1015	0915	45	3.9	--	--	0.04	0.77	0.78	0.115	0.016	100	190
24-28	0933	0833	39	7.7	--	--	0.02	0.53	0.83	0.080	0.016	110	210
28-31	0955	0855	38	6.4	--	--	0.02	0.68	0.86	0.090	0.015	110	220
AUG 31-													
SEP 01	0955	1955	46	21	--	--	0.04	1.2	0.97	0.135	0.015	110	240
01-05	2055	0855	47	32	88	18	0.02	1.2	0.91	0.185	0.017	100	190
05-08	1000	0900	36	36	--	--	0.03	1.1	0.80	0.235	0.026	110	200
08-11	0955	0855	36	9.7	--	--	0.03	0.89	0.78	0.155	0.014	110	220
11-13	0945	2045	38	21	--	--	0.04	0.75	0.82	0.125	0.017	100	210
13...	0200	--	37	4.1	--	--	0.02	0.49	0.86	0.060	0.018	110	230
13-14	2145	0845	67	42	151	24	0.03	1.1	0.91	0.215	0.016	89	200
14-16	0950	1250	116	48	158	30	0.04	1.3	0.91	0.275	0.023	71	140
16-18	1350	0850	103	43	141	28	0.02	1.2	0.82	0.270	0.024	76	140
18-21	1000	0900	56	24	--	--	0.02	0.77	0.87	0.170	0.023	96	180
21-22	1000	1100	45	27	--	--	0.01	0.53	0.91	0.140	0.020	110	200
22-22	1130	1900	104	15	--	--	0.02	0.39	0.92	0.110	0.020	120	190
22-24	1930	1030	87	38	97	16	0.01	1.1	0.80	0.240	0.020	92	140
24-26	1200	1130	56	15	--	--	0.02	0.48	0.86	0.095	0.022	100	190
26-28	1230	0930	49	22	--	--	<0.01	0.43	0.83	0.130	0.019	110	180
SEP 28-													
OCT 02	1000	0100	47	8.4	--	--	0.02	0.50	0.81	0.090	0.018	96	190
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
02-02	0200	0900	85	4.5	--	--	0.02	0.37	0.74	0.075	0.014	97	200
02-04	1145	1045	64	24	--	--	0.02	0.76	0.69	0.140	0.016	87	160
04-06	1145	1045	51	15	--	--	<0.01	0.37	0.70	0.105	0.013	110	190
06-10	1100	1000	49	2.7	--	--	<0.01	0.28	0.69	0.065	0.011	98	170
10-13	1125	1025	51	1.9	--	--	0.02	0.15	0.75	0.065	0.012	100	190
13-14	1135	1335	48	2.6	--	--	0.02	0.26	0.72	0.075	0.012	110	190
14-16	1435	1035	94	8.2	--	--	0.01	0.93	1.00	0.230	0.014	80	150
16-18	1105	0205	108	20	--	--	0.02	0.76	0.64	0.125	0.015	80	150

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
OCT-continued													
18-19	0305	1005	124	22	--	--	0.01	0.70	0.60	0.140	0.017	79	140
19-21	1025	0925	173	34	142	19	0.03	1.1	0.62	0.240	0.023	81	120
21-23	1025	0925	120	21	--	--	0.02	0.69	0.71	0.145	0.023	91	120
23-26	1045	0945	61	12	--	--	0.02	0.60	0.95	0.090	0.026	110	170
26-30	1005	0905	58	3.1	--	--	0.02	0.59	0.78	0.080	0.019	110	180
OCT 30-													
NOV 02	1015	0915	54	10	--	--	0.01	0.41	0.72	0.070	0.018	110	170
02-06	1130	1030	67	2.4	--	--	0.03	0.32	0.68	0.065	0.016	100	170
06-07	0940	1440	65	2.7	--	--	0.03	0.43	0.90	0.060	0.016	120	190
07-09	1540	0840	94	8.5	--	--	0.02	0.79	0.92	0.125	0.018	100	160
09-13	1035	0935	81	3.3	--	--	0.07	0.59	0.94	0.090	0.026	110	150
13-14	1030	1830	64	2.3	--	--	0.04	0.48	0.93	0.075	0.030	120	170
14-16	1830	0330	71	2.6	--	--	0.03	0.39	0.80	0.070	0.023	110	180
16-16	0430	0930	93	3.8	--	--	0.02	0.53	0.79	0.080	0.019	110	160
16-20	1015	0915	70	5.5	--	--	0.03	0.57	0.74	0.090	0.019	100	150
20-22	1010	0910	105	19	--	--	<0.01	1.0	0.80	0.170	0.014	100	120
22-27	1030	0930	76	4.3	--	--	<0.01	0.56	0.97	0.065	0.015	110	160
27-30	1000	0900	71	2.4	--	--	<0.01	0.23	0.99	0.045	0.011	110	170
NOV 30-													
DEC 02	1040	0540	67	2.6	--	--	<0.01	0.56	1.00	0.070	0.011	140	180
02-04	0640	0940	58	2.7	--	--	<0.01	1.1	1.10	0.135	0.009	140	190
04-07	1100	1000	56	3.7	--	--	0.01	0.85	1.20	0.080	0.008	150	180
05...	0200	--	--	2.6	--	--	0.03	0.33	1.10	0.035	0.007	130	190
07-11	1030	0930	51	2.1	--	--	<0.01	0.52	1.00	0.055	0.007	180	170
11-14	1045	0945	47	1.5	--	--	<0.01	0.62	1.10	0.055	0.007	140	200
14-15	1045	1745	43	1.4	--	--	0.02	0.32	1.30	0.035	0.007	150	200
15-18	1845	0945	43	1.9	--	--	0.01	0.41	1.30	0.045	0.007	150	200
18-22	1055	0955	42	--	--	--	0.01	0.41	1.50	0.055	0.006	140	210
26-29	1130	1030	41	2.2	--	--	0.03	0.60	1.60	0.035	0.006	140	200
29-31	1055	0555	57	1.0	--	--	0.03	0.23	1.50	0.025	0.005	200	200
DEC 31-													
JAN 02	0655	0955	139	6.3	--	--	0.06	1.0	1.50	0.100	0.005	470	150
02-03	1015	1815	98	4.3	--	--	0.04	0.57	1.50	0.075	0.008	370	160
03-05	1915	0915	170	38	135	25	0.06	1.6	1.40	0.240	0.009	320	150
05-08	1045	0945	167	38	101	17	0.05	1.4	1.70	0.170	0.012	240	140
08...	1000	--	--	18	--	--	0.12	1.5	1.70	0.150	0.011	200	160
08-12	1000	0900	--	6.0	--	--	0.08	0.70	1.60	0.050	0.011	210	160
12-16	0940	0840	98	4.4	--	--	0.04	0.69	1.60	0.075	0.011	220	170
16-18	1015	0015	141	26	--	--	0.03	1.1	1.70	0.140	0.014	210	160
18-19	0115	0915	348	250	709	107	0.03	3.3	0.80	0.760	0.015	170	100
19-22	1015	0915	184	37	93	17	0.02	1.2	1.80	0.160	0.014	160	120
22-25	1030	0930	144	6.2	--	--	0.02	1.1	1.70	0.130	0.013	230	150
25-29	1000	0900	131	13	--	--	0.02	0.89	1.60	0.070	0.011	170	150
JAN 29-													
FEB 01	1000	0800	93	4.4	--	--	0.02	0.62	1.50	0.045	0.008	250	170
01-05	0840	0740	222	42	101	16	0.02	1.1	1.60	0.170	0.011	250	120
05-06	1100	1300	177	20	--	--	0.02	0.93	1.60	0.100	0.009	200	90
06-08	1400	1000	222	23	--	--	0.01	0.78	1.60	0.110	0.010	300	120
08...	1000	--	--	14	114	25	0.04	0.70	1.60	0.065	0.011	250	110
08-09	1015	0515	337	40	119	19	0.02	1.4	1.60	0.175	0.016	220	92
09-12	0615	0915	537	140	440	60	0.03	2.4	1.70	0.540	0.016	150	74
15...	1100	--	169	5.4	--	--	0.04	0.70	0.80	0.045	0.009	120	120
16...	0915	--	405	22	--	--	0.08	0.99	1.50	0.120	0.014	290	87
16...	1235	--	405	17	--	--	0.02	1.3	1.50	0.120	0.014	260	84
20...	1125	--	233	6.0	--	--	0.05	0.73	1.60	0.040	0.009	140	110
21...	1330	--	177	4.3	--	--	0.05	0.68	1.60	0.040	0.008	150	120
22-23	1535	0835	497	130	554	81	0.07	2.2	1.40	0.610	0.018	130	65
23-24	1050	0350	662	120	445	51	0.02	1.6	1.30	0.440	0.016	100	35
26...	1050	--	232	5.9	--	--	0.04	0.66	1.60	0.040	0.011	140	93
27...	1345	--	200	5.3	--	--	0.05	0.67	1.80	0.045	0.011	150	120
28...	1210	--	183	110	194	15	0.05	0.51	1.80	0.040	0.008	160	120
MAR													
01...	1000	--	162	3.7	--	--	0.06	0.68	1.80	0.050	0.008	150	120
02-05	1530	0230	190	20	--	--	0.03	0.72	1.70	0.070	0.007	160	110
05-08	1105	0405	124	7.5	--	--	0.02	0.72	1.60	0.055	0.004	150	130

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
MAR-continued													
08-10	1120	2220	128	40	117	15	0.02	1.0	1.50	0.180	0.007	130	110
12-14	1015	1815	415	50	181	19	0.08	1.2	1.40	0.200	0.011	100	81
12...	1100	--	498	55	170	22	0.04	1.2	1.50	0.245	0.016	100	73
15-17	0955	0455	221	2.6	--	--	0.06	0.74	1.10	0.065	0.004	120	110
17-19	0555	0855	274	45	176	15	0.02	1.1	1.10	0.200	0.006	110	95
19-21	1045	1545	229	16	--	--	<0.01	0.78	0.45	0.085	0.002	120	110
22...	1000	--	179	4.6	--	--	0.03	0.81	1.30	0.040	0.006	130	110
22-26	1000	0900	153	2.3	--	--	0.02	0.75	1.20	0.050	0.010	130	130
26-29	0945	0845	113	5.4	--	--	0.02	0.62	1.30	0.035	0.002	130	140
MAR 29-													
APR 02	0955	0855	106	4.9	--	--	0.03	0.67	1.30	0.055	0.004	130	160
02-05	1030	0930	464	50	174	22	0.03	1.1	0.99	0.210	0.004	110	110
05-09	0955	0855	954	190	579	73	0.07	2.1	0.91	0.590	0.009	120	59
09...	1030	--	300	7.3	--	--	0.02	0.59	1.50	0.050	0.007	110	82
10...	1400	--	365	7.5	--	--	0.02	0.71	1.50	0.055	0.005	120	88
12...	1045	--	806	80	131	15	0.02	0.96	1.00	0.180	0.014	66	52
16...	1030	--	224	5.3	--	--	0.03	0.85	1.50	0.110	0.007	110	84
19...	1030	--	154	3.6	--	--	0.03	0.72	1.40	0.030	0.005	110	100
19-21	1530	0230	163	22	--	--	0.03	1.2	1.30	0.115	0.002	110	110
21-23	0330	0930	278	32	90	12	0.03	1.1	1.20	0.150	0.002	96	79
23-25	0950	1850	157	15	--	--	0.02	0.82	0.88	0.065	0.003	100	90
27-30	1530	0930	113	18	--	--	0.08	0.90	0.68	0.100	0.002	110	110
APR 30-													
MAY 03	1015	0915	90	6.5	--	--	<0.01	0.64	1.10	0.050	0.003	130	130
03-04	0940	1640	88	6.4	--	--	0.02	0.55	1.00	0.055	0.002	120	130
04-07	1740	0840	221	60	294	30	0.02	0.89	0.94	0.300	0.003	96	91
07-07	0930	2030	211	20	--	--	0.05	0.91	1.10	0.110	0.009	91	83
10...	1015	--	124	4.9	--	--	0.02	0.64	1.00	0.045	0.005	110	110
14-15	1005	0905	487	110	298	42	<0.01	1.6	0.89	0.330	0.007	77	64
17...	1030	--	775	80	222	29	0.03	1.5	1.10	0.310	0.026	64	54
17-21	1630	0330	533	6.9	--	--	N0.20	1.1	N0.10	0.050	0.003	78	36
21-24	1130	0230	394	5.5	--	--	N0.18	0.78	N0.08	0.060	0.003	110	36
29-31	1020	1920	137	12	--	--	0.03	1.1	0.93	0.100	0.006	97	120
31...	1055	--	124	5.7	--	--	0.03	0.69	1.20	0.035	0.012	99	120
MAY 31-													
JUN 01	1110	1510	115	1.9	--	--	0.02	0.82	1.00	0.065	0.008	100	120
04...	1005	--	126	4.3	--	--	0.04	0.96	1.10	0.060	0.015	98	100
04-05	1030	2130	113	3.8	--	--	0.03	0.68	0.91	0.050	0.011	99	120
07...	0930	--	97	2.2	--	--	0.02	0.58	1.10	0.030	0.011	100	140
08-09	1020	0620	100	3.5	--	--	0.03	0.66	0.93	0.045	0.010	100	120
09-11	0720	0920	95	2.0	--	--	0.02	0.69	0.99	0.030	0.006	100	140
11-14	1050	0950	78	2.7	--	--	0.02	0.76	1.10	0.040	0.009	110	160
14-18	0950	0850	70	2.0	--	--	0.02	0.61	1.00	0.035	0.013	110	160
18-21	0957	0857	82	31	101	22	0.05	1.3	1.20	0.150	0.023	100	150
21-22	1000	1700	74	18	--	--	0.03	0.74	1.10	0.095	0.022	110	170
22-25	1800	0900	95	37	95	19	0.04	1.1	1.00	0.180	0.019	98	140
25-28	1030	0930	69	5.3	--	--	0.02	1.1	0.99	0.122	0.016	110	150
28-30	1055	0155	63	17	--	--	<0.01	0.79	0.90	0.100	0.015	110	160
JUN 30-													
JUL 02	0255	0955	80	31	--	--	0.02	1.1	0.90	0.150	0.015	100	150
02-04	1045	2145	65	27	--	--	0.02	0.82	0.90	0.130	0.014	100	150
04-05	2245	0945	108	100	308	51	0.02	2.2	0.90	0.460	0.017	79	120
05-08	1045	2145	65	29	--	--	0.03	1.1	0.75	0.150	0.010	100	140
08-09	2245	0945	73	33	27	<5	0.02	1.3	0.68	0.170	0.006	110	160
09-12	1100	1000	57	25	--	--	0.04	1.0	0.73	0.100	0.008	100	160
12-16	1010	0910	50	20	--	--	0.02	1.0	0.78	0.120	0.004	110	180
16-19	1210	1010	47	15	--	--	0.06	0.70	0.69	0.085	0.008	110	150
19-20	1045	0545	57	15	--	--	0.04	0.52	0.78	0.075	0.015	100	170
20-23	0645	0945	71	35	--	--	0.06	1.4	0.82	0.210	0.016	98	160
23-26	1145	0945	61	28	--	--	0.08	0.80	0.68	0.130	0.011	100	150
26-30	1000	0900	46	15	--	--	0.03	0.61	0.66	0.160	0.006	120	170
JUL 30-													
AUG 02	1100	1000	59	17	--	--	0.02	0.99	0.61	0.130	0.007	100	160
02-05	0940	0440	55	16	--	--	0.03	0.71	0.55	0.110	0.006	110	180
05-06	0540	0840	271	380	802	86	0.02	3.7	0.45	0.950	0.008	550	84
06-09	1145	1045	116	110	209	25	0.03	1.6	0.45	0.380	0.008	90	120

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
AUG-CONTINUED													
09-12	1045	1345	48	27	78	14	0.02	1.2	0.52	0.210	0.004	100	170
12-13	1445	0945	103	75	212	30	0.02	1.8	0.53	0.330	0.004	84	140
13-16	1215	1115	90	50	147	23	--	1.6	0.54	0.270	0.008	87	130
16-20	1100	1000	52	30	77	15	--	1.2	0.66	0.190	0.008	100	180
20-23	1230	1030	47	21	--	--	--	1.3	0.68	0.140	0.016	100	180
23-27	1115	1015	42	14	--	--	--	1.1	0.61	0.150	0.006	100	190
27-31	1120	1020	42	18	--	--	--	0.80	0.57	0.120	0.006	110	180
AUG 31- SEP 04	1200	1100	28	9.8	--	--	--	0.96	0.61	0.105	0.007	110	190
04-05	1205	0705	64	14	--	--	<0.04	0.76	0.55	0.095	0.006	100	190
05-06	0805	1105	96	90	299	50	<0.04	2.4	0.81	0.510	0.010	71	130
06-07	1215	0715	103	27	--	--	<0.04	1.3	0.77	0.180	0.011	90	130
07-10	0815	1115	91	65	229	32	<0.04	1.7	0.53	0.290	0.010	83	N130
10-13	1215	1115	52	26	--	--	<0.01	0.93	0.55	0.140	0.010	100	160
13-14	1135	2235	50	18	--	--	<0.01	0.87	0.56	0.110	0.014	120	160
14-17	2335	1035	67	29	--	--	<0.01	1.3	0.51	0.150	0.009	98	130
17-20	1150	1050	55	14	--	--	0.01	0.69	0.59	0.095	0.008	110	190
20-24	1115	1015	52	11	--	--	<0.01	1.0	0.64	0.070	0.008	110	190
24-25	1135	1935	48	8.7	--	--	<0.01	0.49	0.66	0.065	0.008	110	170
25-27	2035	1035	56	18	--	--	<0.01	0.68	0.69	0.110	0.007	100	110
27-29	1145	1845	--	8.2	--	--	0.02	0.55	0.65	0.070	0.008	110	120
SEP 29- OCT 01	1945	1045	--	24	--	--	0.02	1.2	0.71	0.160	0.008	89	97
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
01-04	1200	1100	54	12	--	--	<0.01	0.50	0.60	0.070	0.007	110	160
04-09	1130	1030	69	32	101	18	<0.01	0.99	0.49	0.180	0.009	100	150
09-11	1210	1110	137	55	166	23	0.02	1.3	0.50	0.260	0.016	87	120
11-13	1125	0625	306	90	275	37	0.02	1.8	0.48	0.410	0.012	70	72
13-15	0725	1025	236	70	177	28	0.01	1.3	0.68	0.270	0.012	80	71
15-18	1150	1050	98	30	77	12	0.02	1.1	0.71	0.150	0.013	100	120
18-18	1100	1400	80	26	--	--	0.03	0.92	0.77	0.140	0.015	110	140
18-22	1500	1000	131	50	130	18	0.04	1.1	0.62	0.200	0.014	90	120
22-23	1130	0730	99	29	--	--	0.02	0.94	0.72	0.130	0.011	93	120
23-25	0830	1030	181	50	132	15	<0.01	0.98	0.69	0.200	0.012	82	120
25-29	1100	1000	109	26	--	--	<0.01	0.73	0.88	0.110	0.016	97	120
OCT 29- NOV 01	1100	1000	87	13	--	--	0.02	0.82	0.97	0.080	0.010	100	120
01-05	1040	0940	76	12	--	--	0.03	0.75	0.88	0.075	0.018	100	150
05-09	1055	0855	115	21	--	--	0.03	0.83	0.85	0.180	0.012	100	130
09-10	0930	0030	86	4.8	--	--	0.03	0.71	0.88	0.080	0.012	110	130
10-13	0730	0830	207	27	--	--	0.02	1.2	0.88	0.160	0.013	120	88
13-15	1145	1045	142	17	--	--	<0.01	0.78	1.00	0.130	0.011	130	100
15-19	1125	1025	138	19	--	--	0.01	0.96	0.97	0.090	0.012	120	110
21-22	0920	1420	71	21	--	--	0.02	1.0	1.20	0.100	0.015	120	150
22-26	1520	0820	121	22	--	--	0.01	0.77	0.96	0.100	0.011	110	100
26-27	1120	0420	103	12	--	--	<0.01	0.77	0.85	0.075	0.009	110	120
27-29	0520	1020	158	17	--	--	<0.01	0.76	0.84	0.095	0.007	120	130
NOV 29- DEC 03	1045	0945	96	15	--	--	0.03	0.84	1.00	0.095	0.011	120	120
03-04	1205	0805	179	34	--	--	<0.01	1.2	1.10	0.200	0.008	170	78
04-06	0905	0105	388	90	--	--	<0.01	2.0	0.98	0.360	0.011	120	69
06-10	1100	0200	147	--	--	--	0.01	1.0	1.20	0.105	0.012	120	110
10-13	1100	0100	115	12	--	--	<0.01	0.80	1.50	0.070	0.010	110	120
13-14	1035	1335	119	16	--	--	0.01	0.74	1.40	0.090	0.008	130	130
17-18	1130	1330	172	28	--	--	0.02	0.90	1.20	0.110	0.008	100	91
18-19	1415	0115	340	80	234	27	0.02	1.7	1.10	0.320	0.009	100	73
19-20	0215	0715	407	130	304	41	0.02	2.2	1.20	0.420	0.019	77	58
20-23	1000	0100	192	33	--	--	0.02	0.81	1.30	0.140	0.013	92	73
23-24	0200	0900	343	100	252	33	0.03	1.6	1.10	0.400	0.014	79	54
24-28	1025	0925	184	40	89	11	0.01	1.0	1.40	0.150	0.018	110	91
28-29	1125	0625	126	24	--	--	0.02	0.50	1.60	0.125	0.016	120	130
29-29	0725	2125	278	220	743	66	0.02	3.2	1.30	0.920	0.015	110	63

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
JAN													
02...	1130	--	357	19	--	--	0.06	0.76	1.50	0.095	0.028	87	60
02-04	1130	1030	279	45	100	12	0.02	1.0	1.70	0.190	0.012	110	80
04-07	1120	1020	183	20	--	--	0.02	1.1	1.80	0.100	0.012	130	95
07-10	1155	1055	144	13	--	--	0.04	0.77	1.90	0.075	0.010	130	93
10-11	1155	2255	126	13	--	--	0.02	0.76	1.60	0.085	0.011	130	120
11-14	2355	0355	117	16	--	--	0.02	0.66	1.60	0.065	0.008	170	110
14-15	1305	0105	--	16	--	--	0.03	0.77	1.80	0.090	0.010	170	120
17-22	1210	1110	335	36	95	12	0.03	1.0	1.50	0.160	0.014	120	69
17...	1215	--	561	26	--	--	0.09	0.79	1.30	0.130	0.026	170	73
22-24	1215	1015	196	16	--	--	0.02	0.77	1.80	0.070	0.010	120	93
24-28	1110	1010	135	8.4	--	--	0.01	0.65	1.90	0.060	0.009	130	130
28-31	1120	1020	113	14	--	--	0.02	0.73	1.80	0.085	0.008	180	110
JAN 31-													
FEB 03	1145	1445	112	8.0	--	--	--	0.64	1.90	0.065	0.006	210	140
04-07	1135	1035	322	40	106	14	0.01	0.94	1.40	0.160	0.009	150	73
07-11	1135	1035	272	24	--	--	0.01	0.86	1.40	0.095	0.009	120	78
11-15	1150	0850	143	6.7	--	--	0.01	0.62	1.50	0.040	0.004	180	110
15-18	0930	2030	128	8.6	--	--	0.01	0.70	1.50	0.065	0.005	200	120
18-19	2130	0830	131	5.9	--	--	0.01	0.50	1.50	0.045	0.003	200	130
19-20	1155	1055	368	50	178	26	0.01	1.3	1.30	0.250	0.005	180	88
19-21	1155	1055	351	90	208	23	0.01	1.3	1.20	0.260	0.006	110	66
21-25	1205	1105	174	12	--	--	0.02	0.63	1.30	0.075	0.005	130	110
28...	1125	--	104	1.9	--	--	0.02	0.63	1.30	0.015	0.003	130	150
MAR													
01-02	1005	0905	139	8.2	--	--	0.01	0.49	1.40	0.050	0.005	190	130
02-04	1005	0305	440	270	926	91	0.02	2.6	1.10	1.05	0.010	130	77
06...	1135	--	697	100	334	25	0.03	0.90	1.20	0.430	0.026	66	46
07...	1105	--	665	30	234	140	0.04	0.97	1.20	0.140	0.022	77	45
07-08	1105	1005	563	290	1090	92	0.17	3.8	0.47	1.25	0.006	69	43
08...	1320	--	409	24	--	--	0.04	0.72	1.30	0.090	0.016	78	63
11...	1140	--	208	6.2	--	--	0.03	0.56	1.60	0.040	0.009	95	94
14...	1125	--	169	3.3	--	--	0.02	0.39	1.60	0.020	0.005	100	120
14-15	1630	1430	165	3.9	--	--	0.03	0.55	1.70	0.035	--	100	--
15-18	1520	1020	163	13	--	--	0.01	0.82	1.50	0.130	0.002	100	120
18-19	1130	0130	183	16	--	--	0.01	0.88	1.30	0.085	0.004	110	120
19-21	0230	1030	186	12	--	--	0.01	0.88	1.30	0.075	0.004	110	120
21-23	1145	0745	139	5.0	--	--	0.02	0.67	1.30	0.045	0.003	110	120
23-23	0845	1645	297	33	541	43	0.01	1.4	1.20	0.530	0.005	94	96
23-24	1745	0445	385	190	480	50	0.01	1.8	1.00	0.650	0.007	79	67
24-24	0545	1045	444	150	278	34	0.02	1.6	1.10	0.500	0.007	91	73
25-27	1125	0425	223	35	81	11	0.03	0.91	1.20	0.160	0.005	92	83
25...	1140	--	275	10	--	--	0.04	0.54	1.10	0.055	0.010	92	77
27-27	0525	2225	418	90	248	29	0.02	1.2	1.10	0.280	0.005	84	74
27-28	2325	1025	631	250	612	28	0.02	2.0	1.00	0.770	0.010	72	60
MAR 28-													
APR 01	1130	1030	321	55	206	24	0.02	1.2	1.10	0.270	0.006	82	56
01-01	1140	2240	248	20	--	--	0.02	0.85	1.20	0.120	0.007	98	110
01-04	2340	1040	354	10	--	--	0.01	0.72	1.30	0.090	0.005	100	110
04-08	1130	1030	149	9.0	--	--	0.02	0.82	1.20	0.085	0.006	110	97
08-09	1110	0110	193	90	257	31	0.04	0.75	1.10	0.260	0.009	98	60
09-10	0210	0110	239	40	139	21	0.04	0.85	1.10	0.190	0.011	89	98
10-11	0210	1010	318	110	273	41	0.02	1.4	0.93	0.380	0.008	78	80
11-15	1120	1020	173	24	--	--	0.03	0.90	0.97	0.095	0.005	95	110
15-16	1130	0130	266	50	176	14	0.02	1.1	1.00	0.220	0.008	91	99
16-18	0230	1030	254	75	190	24	0.02	1.2	0.83	0.240	0.007	81	85
18-20	1125	0225	173	20	--	--	0.03	0.74	0.91	0.110	0.006	95	110
20-22	0325	0925	449	150	395	33	0.01	2.0	0.86	0.535	0.007	73	73
22-25	1020	0920	694	140	290	24	0.02	1.5	0.95	0.450	0.017	53	45
25-29	1020	0920	272	40	105	12	0.02	0.98	0.96	0.170	0.011	76	84
APR 29-													
MAY 02	1015	1130	200	16	--	--	0.02	0.99	1.00	0.120	0.008	90	110
01...	1145	--	191	4.4	--	--	<0.01	0.69	1.00	0.050	0.007	89	110
02-05	1205	2205	171	14	--	--	0.02	0.58	1.10	0.095	0.008	91	120
06-09	1015	0915	178	14	--	--	<0.01	0.81	1.00	0.810	0.007	88	120
09-13	1115	1015	155	11	--	--	0.01	1.0	1.00	0.080	0.010	92	120
13-16	1030	0930	142	11	--	--	--	0.92	0.94	0.095	0.010	94	140

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
MAY-continued													
16-17	0940	0840	120	11	--	--	--	0.84	0.98	0.110	0.015	99	150
17-17	0940	2040	193	19	--	--	--	1.1	1.00	0.150	0.015	93	140
17-20	2140	0840	167	25	--	--	--	1.3	0.91	0.170	0.011	82	120
20-23	1020	0920	114	14	--	--	0.02	1.1	1.10	0.120	0.012	99	140
23-26	1150	1350	98	17	--	--	0.02	0.88	0.82	0.120	0.054	110	160
26-26	1450	2350	194	75	209	24	0.04	1.4	0.77	0.350	0.020	98	140
27-28	0050	0950	140	75	230	28	0.05	1.9	0.70	0.360	0.017	76	120
28-30	1035	0935	81	21	--	--	0.02	1.1	1.10	0.150	0.017	100	140
MAY 30-													
JUN 03	1020	0920	71	32	115	16	0.02	1.8	1.30	0.210	0.026	110	150
03-06	1005	0905	58	31	94	14	<0.01	1.1	0.92	0.200	0.023	110	150
06-10	1230	0930	51	34	104	28	<0.01	0.20	1.20	0.200	0.022	110	180
10-11	1000	1200	55	23	--	--	<0.01	1.0	1.20	0.160	0.019	110	190
11-12	1300	0900	78	40	--	--	<0.01	1.5	1.50	0.290	0.021	110	150
12-12	1000	1800	278	100	--	--	0.04	3.5	1.60	0.810	0.021	82	120
12-13	1900	0900	132	200	--	--	0.02	3.9	1.50	0.760	0.023	64	100
13-17	1015	0915	62	60	160	26	<0.01	1.5	1.10	0.300	0.029	100	140
17-20	1015	0915	52	38	--	--	<0.01	1.0	0.97	0.185	0.023	98	180
20-24	1005	0905	48	19	--	--	0.02	1.2	0.93	0.150	0.022	110	200
24-27	1015	0915	46	22	--	--	0.03	0.98	0.85	0.130	0.017	110	220
JUN 27-													
JUL 01	1010	0910	46	7.7	--	--	0.02	0.87	0.82	0.040	0.013	110	190
01-04	1015	1715	45	14	--	--	<0.01	0.92	0.82	0.140	0.015	110	190
04-05	1815	0915	68	20	--	--	<0.01	1.4	0.84	0.190	0.010	100	170
05-06	1240	2400	--	36	108	18	0.04	0.72	1.02	0.250	0.024	87	160
06-07	0100	0600	95	55	142	24	0.03	0.94	0.89	0.270	0.021	77	160
07-07	0700	1500	107	45	129	24	0.03	0.86	0.75	0.270	0.016	82	160
07-08	1600	0900	87	38	119	21	0.01	0.86	0.68	0.280	0.012	80	140
08-09	1015	1815	55	31	103	16	0.03	1.4	0.84	0.220	0.024	89	180
09-11	1915	0915	46	29	--	--	0.01	1.3	0.77	0.190	0.015	100	190
11-15	1010	0910	48	9.2	--	--	0.20	0.92	0.70	0.150	0.015	110	170
15-18	1035	0935	44	28	--	--	0.04	1.2	0.71	0.150	0.016	110	200
18-21	1010	1310	41	30	60	11	<0.01	1.0	0.72	0.130	0.016	110	210
21-22	1410	0910	81	45	106	22	<0.01	1.7	0.78	0.230	0.010	90	180
22-23	1015	1815	66	35	82	14	0.03	0.96	0.83	0.190	0.024	78	140
23-25	1915	0915	44	25	--	--	0.03	0.98	0.71	0.150	0.014	99	180
25-29	1020	0920	41	20	--	--	0.01	0.78	0.59	0.130	0.015	110	200
29-30	1010	0910	39	19	--	--	<0.01	0.92	0.52	0.110	0.008	110	210
JUL 30-													
AUG 01	1025	0925	40	25	--	--	0.03	1.0	0.56	0.170	0.011	100	200
01-03	1035	0135	39	17	--	--	0.02	0.94	0.71	0.120	0.017	110	200
03-03	0235	1735	65	20	--	--	0.04	1.1	0.68	0.130	0.017	100	180
03-05	1835	0935	55	22	--	--	0.02	1.2	0.83	0.140	0.014	93	170
05-08	1010	0910	47	22	--	--	0.02	0.85	0.65	0.130	0.014	99	190
08-09	1040	0140	46	9.1	--	--	<0.01	0.94	0.68	0.100	0.023	100	180
09-09	0240	1440	123	45	130	32	<0.01	1.7	0.69	0.270	0.026	91	150
09-12	1840	0940	61	40	100	24	<0.01	1.3	0.60	0.230	0.021	88	150
12-14	1045	1845	51	24	--	--	0.04	0.99	0.66	0.150	0.019	110	170
14-15	1945	0045	106	65	160	35	0.04	1.9	0.74	0.340	0.014	96	110
15-15	0145	0945	49	40	110	26	0.05	1.2	0.86	0.200	0.012	78	120
15-19	1025	0925	48	20	--	--	<0.10	1.3	0.54	0.120	--	120	180
19-20	1040	1840	48	20	--	--	<0.01	0.70	0.51	0.110	0.015	120	190
20-21	1940	0640	85	38	--	--	<0.01	0.99	0.56	0.170	0.014	97	150
21-22	0740	0940	49	34	--	--	0.01	0.98	0.60	0.160	0.013	83	160
22-26	1015	0915	40	5.1	--	--	<0.01	1.0	0.63	0.140	0.015	110	190
26-30	0940	0840	38	16	--	--	<0.01	0.85	0.44	0.130	0.007	120	220
30-31	0900	0425	37	19	--	--	0.03	0.85	0.51	0.110	0.011	120	220
AUG 31-													
SEP 03	0525	0825	42	16	--	--	0.02	0.78	0.77	0.130	0.010	100	190
03-04	1000	0700	35	22	--	--	0.01	0.90	0.67	0.140	0.018	110	200
04-05	0800	0900	45	19	--	--	<0.01	0.99	0.63	0.120	0.012	100	200
05-09	1120	1020	37	17	--	--	<0.01	0.88	0.56	0.120	0.008	100	220
09-10	1235	1735	36	14	--	--	0.03	0.80	0.60	0.140	0.012	110	46
10-12	1835	1135	40	18	--	--	0.03	1.1	0.66	0.180	0.010	93	180

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
SEP-continued													
12-15	1130	0630	39	20	--	--	0.02	0.90	0.66	0.140	0.009	110	180
15-16	0730	1030	63	32	98	18	0.02	1.1	0.75	0.200	0.007	87	150
16-19	1130	1135	39	22	--	--	<0.01	1.0	0.62	0.170	0.009	110	180
19-23	1205	1105	41	17	--	--	0.02	0.63	0.67	0.130	0.009	100	190
23-25	1135	0135	41	17	--	--	<0.01	0.89	0.68	0.130	0.027	110	200
25-25	0235	1335	65	45	170	28	<0.01	1.6	0.59	0.290	0.009	74	120
25-26	1435	1035	100	45	138	21	<0.01	1.4	0.54	0.280	0.011	62	130
26-30	1100	1000	44	18	--	--	0.02	1.1	0.67	0.150	0.012	100	180
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
OCT													
03-04	1050	2150	39	16	--	--	0.01	0.80	0.79	0.120	0.012	120	200
04-06	2250	0550	41	16	--	--	0.01	0.92	0.80	0.130	0.013	120	180
10-11	1055	1955	67	21	--	--	0.02	0.85	0.73	0.150	0.015	97	180
11-15	2055	0955	52	13	--	--	0.02	0.79	0.70	0.110	0.013	100	200
15-16	1130	0230	81	16	--	--	<0.01	0.53	0.60	0.120	0.012	96	200
17-19	1115	0615	54	7.3	--	--	0.02	0.22	0.64	0.065	0.012	100	--
NOV													
04-05	1050	0950	44	3.0	--	--	0.01	0.55	0.68	0.045	0.004	110	230
05-06	1050	1350	43	44	706	184	0.05	3.1	0.66	1.75	0.005	110	240
08-10	1125	1825	37	2.8	--	--	0.02	0.33	0.68	0.025	0.005	100	200
12-14	1150	1050	70	5.5	--	--	0.04	0.65	0.71	0.055	0.008	130	180
21-24	1115	0615	59	3.6	--	--	--	0.68	1.00	0.035	0.009	170	270
24-25	0715	1015	73	4.5	--	--	--	0.43	0.94	0.045	0.008	130	210
25-25	1100	1800	86	5.5	--	--	0.01	0.58	0.85	0.050	0.009	110	210
26-27	0100	1000	86	8.4	--	--	<0.01	0.55	0.70	0.050	0.008	130	180
27-28	1030	2030	55	4.5	--	--	--	0.50	0.85	0.040	0.007	150	190
28-29	2130	1130	130	23	--	--	--	0.74	0.85	0.160	0.009	140	170
NOV 29-													
DEC 02	1230	0930	88	12	--	--	--	0.54	0.88	0.085	0.008	120	170
02-03	1040	0040	52	2.9	--	--	0.01	0.29	0.89	0.030	0.010	120	200
03-03	0140	1240	183	35	--	--	0.01	1.2	0.74	0.220	0.012	210	150
03-05	1340	0940	159	21	--	--	0.01	0.85	0.78	0.130	0.010	180	140
05-07	1155	1055	70	9.1	--	--	0.04	0.58	0.97	0.055	0.011	180	--
07-07	1155	2255	86	7.9	--	--	0.03	0.50	1.10	0.060	0.009	250	--
07-09	2355	1055	84	6.9	--	--	0.03	0.61	1.10	0.055	0.009	240	--
09-12	1040	0940	76	7.3	--	--	<0.01	0.57	0.95	0.045	0.010	160	190
12-16	1040	0940	63	8.5	--	--	0.04	0.70	0.96	0.070	0.018	140	180
16-19	1100	1000	52	7.2	--	--	0.03	0.64	1.10	0.040	0.010	170	220
19-23	1045	0945	58	6.2	--	--	0.03	0.56	1.20	0.035	0.010	230	210
23-26	1050	0950	61	4.5	--	--	0.02	0.56	1.10	0.030	0.008	220	200
26-27	1205	1105	36	3.2	--	--	0.02	0.57	1.10	0.030	0.007	200	200
30-31	1200	1000	166	21	--	--	0.04	1.0	0.97	0.090	0.011	210	140
DEC 30-													
JAN 02	1200	1100	119	11	--	--	0.03	0.70	1.40	0.040	0.006	190	150
02-06	0950	0850	79	3.3	--	--	<0.01	0.59	1.20	0.030	0.002	160	190
06-09	0955	0855	78	2.8	--	--	<0.01	0.50	1.40	0.015	0.005	150	180
09-13	1115	1015	68	6.4	--	--	0.01	0.64	1.60	0.050	0.008	190	190
13-14	0935	--	--	2.4	--	--	0.01	0.47	1.40	0.025	0.006	230	190
14-17	0830	--	--	11	--	--	0.02	0.73	1.40	0.045	0.006	220	170
23...	1030	--	123	5.2	7	<5	0.07	0.48	1.50	0.020	0.011	250	49
28-30	1555	0855	62	4.3	--	--	0.02	0.46	1.50	0.020	0.004	180	200
FEB													
03-06	0955	0855	59	1.8	--	--	<0.01	0.53	1.40	0.015	0.004	180	210
06-10	1000	0500	58	1.9	--	--	0.02	0.50	1.40	0.020	0.003	230	220
10-14	1010	0910	63	3.3	--	--	0.01	0.59	1.30	0.025	0.003	230	220
14-15	0945	0345	56	1.6	--	--	0.05	0.44	1.20	0.015	0.006	290	220
18-19	1055	1355	144	11	--	--	0.02	0.60	1.40	0.045	0.003	230	130
19-20	1455	0855	186	12	--	--	0.02	0.63	1.60	0.050	0.006	230	130
20-22	0940	2040	160	7.0	--	--	0.03	0.63	1.70	0.045	0.006	190	140
22-24	2140	0840	188	8.0	--	--	0.02	0.77	1.70	0.050	0.004	190	130
24-27	1010	0910	158	7.0	--	--	0.02	0.64	1.90	0.035	0.003	170	130
27-28	0935	1635	128	2.6	--	--	0.02	0.68	1.90	0.030	0.004	140	150
28-29	1735	0435	134	5.8	--	--	0.03	0.76	1.60	0.045	0.006	170	140

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
FEB 29-													
MAR 02	0535	0835	120	4.1	--	--	0.02	0.61	1.70	0.030	0.004	180	150
02-05	1000	0900	102	2.4	--	--	0.01	0.55	1.50	0.020	0.003	170	170
07-08	0130	0030	184	11	--	--	0.01	0.72	1.20	0.060	<0.002	170	140
08-09	0130	0830	270	33	124	22	0.01	1.2	1.30	0.160	0.002	150	200
12...	1050	--	110	4.6	--	--	0.05	0.62	1.50	0.025	0.008	150	140
13-16	1530	0830	110	2.4	--	--	0.03	0.81	1.30	0.035	0.003	210	150
26...	0930	--	248	8.7	--	--	0.01	0.68	1.40	0.050	0.004	170	98
APR													
06-08	1600	1500	143	8.7	--	--	0.01	0.98	0.98	0.050	0.002	150	130
09-11	0940	0440	106	1.8	--	--	0.03	0.65	1.30	0.025	0.002	130	140
11-12	0540	0440	256	35	117	15	0.01	1.2	1.30	0.140	0.002	130	110
12-13	0540	0840	437	85	230	29	0.04	1.9	1.20	0.290	0.002	100	88
13-16	0955	0855	194	4.6	--	--	0.01	0.63	1.20	0.030	0.002	120	110
16-17	0935	0835	585	40	185	20	--	0.93	1.20	0.210	0.006	97	79
17-18	0935	1635	610	40	115	16	--	0.91	1.30	0.190	0.004	83	65
18-20	1735	1735	356	16	--	--	--	0.69	1.40	0.100	0.003	89	20
23-27	0955	0855	315	5.9	--	--	0.03	0.80	0.96	0.070	0.003	98	92
27-30	0855	0855	167	4.7	--	--	0.04	0.74	0.86	0.035	0.008	100	110
APR 30-													
MAY 02	0950	1650	158	0.20	--	--	0.03	0.52	1.10	0.020	0.002	100	150
02-03	1750	0850	631	180	346	115	0.08	2.9	0.75	0.800	0.010	63	50
03-07	0930	0030	345	4.7	--	--	0.04	0.69	0.92	0.035	0.002	140	140
07-11	1020	0920	159	43	--	--	0.06	1.0	0.69	0.130	0.009	95	120
11-14	0955	0855	118	4.2	--	--	0.02	0.59	0.79	0.035	0.004	110	140
14-17	0940	2040	92	5.0	--	--	0.03	0.61	1.00	0.030	0.003	110	150
18...	0945	--	200	45	124	20	0.06	1.4	1.10	0.220	0.006	85	110
26...	1010	--	96	5.1	--	--	0.04	0.57	1.10	0.040	0.010	110	290
28-30	1000	1300	83	4.7	--	--	0.02	0.62	1.00	0.040	0.005	110	150
30-31	1400	0900	157	6.0	--	--	0.02	0.57	0.94	0.050	0.005	100	140
MAY 31-													
JUN 01	1000	0100	180	10	--	--	0.03	0.71	0.87	0.060	0.005	86	120
01-01	0200	0900	217	16	--	--	0.03	0.91	0.92	0.110	0.006	87	120
01-03	1000	1240	150	17	--	--	--	0.88	--	0.100	0.010	93	120
08-11	1620	0920	92	1.4	--	--	0.02	0.98	1.10	0.120	0.014	110	150
11-15	0955	0855	68	18	--	--	0.01	0.98	0.84	0.090	0.012	120	160
15-18	0955	0855	59	14	--	--	0.01	0.88	1.00	0.080	0.012	130	170
18-19	0945	0445	68	18	--	--	0.03	1.0	0.98	0.090	0.011	130	190
19-20	0545	0045	111	45	156	21	0.05	1.5	1.00	0.240	0.016	110	170
20-22	0145	0845	91	45	115	18	0.04	1.3	1.00	0.200	0.017	95	150
22-23	1010	1210	65	22	--	--	0.02	0.92	1.00	0.115	0.018	120	170
24-25	1110	0310	106	95	--	--	0.02	2.1	1.10	0.475	0.011	94	130
25-27	1000	0100	76	40	121	17	0.02	1.3	1.10	0.300	0.021	110	160
27-28	0140	0040	96	40	116	17	0.02	1.3	0.99	0.170	0.014	110	170
27-28	0200	0100	96	36	101	15	0.01	1.3	0.98	0.140	0.016	110	160
28-29	0200	0900	81	36	95	16	0.01	1.2	0.93	0.140	0.014	96	150
JUL													
02-03	0945	0845	71	15	--	--	0.02	0.83	0.87	0.075	0.011	120	210
03-04	0945	0445	91	36	119	18	0.02	1.2	0.95	0.170	0.012	98	160
04-06	0545	0845	86	25	--	--	0.02	0.99	0.83	0.120	0.012	94	160
06-08	0950	1750	68	6.3	--	--	--	0.68	--	0.060	0.015	110	180
08-09	1850	0850	131	30	123	16	--	1.2	--	0.140	0.010	95	160
09-12	0945	1645	96	26	--	--	0.01	1.1	0.80	0.110	0.014	97	160
12-13	1745	0845	102	31	74	11	0.02	0.94	0.73	0.120	0.018	80	140
13-14	1010	0610	137	21	--	--	0.03	0.67	--	0.110	0.015	87	120
14-15	0710	1510	330	50	168	21	0.02	1.3	--	0.210	0.016	68	90
15-16	1610	0910	437	160	347	43	0.02	2.7	--	0.470	0.012	51	60
20...	0945	--	210	20	--	--	0.03	0.95	1.20	0.110	0.037	78	85
20-23	0955	0855	173	19	--	--	0.02	1.0	0.90	--	0.017	88	100
23-26	1035	1735	159	22	60	10	0.03	0.88	0.96	0.140	0.019	88	110
31...	0945	--	240	55	119	13	0.02	1.0	0.81	0.240	0.027	71	92
AUG													
03...	1020	--	130	15	--	--	0.01	0.66	0.92	0.090	0.030	85	100
04...	1300	--	924	160	270	27	0.08	1.2	0.87	0.480	0.070	35	35
04...	1700	--	918	100	--	--	0.04	1.3	0.83	0.260	0.060	38	45
05...	0810	--	559	40	--	--	0.03	0.92	0.83	0.180	0.040	57	54

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2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
AUG-continued													
05...	1300	--	498	32	--	--	0.03	0.90	0.76	0.180	0.444	61	59
05...	1600	--	473	32	76	9	0.02	0.84	0.76	0.180	0.040	57	59
06...	0945	--	294	17	--	--	0.02	0.79	0.84	0.140	0.039	66	70
07...	0815	--	156	9.0	--	--	0.02	0.80	1.00	0.100	0.037	76	84
07-08	1500	1100	193	13	--	--	0.03	0.81	0.66	0.085	0.012	80	96
08-08	1200	2300	205	14	--	--	0.01	0.79	0.74	0.090	0.014	82	88
10-13	0935	0835	147	6.9	--	--	<0.01	0.64	0.80	0.060	0.013	91	110
13-17	0930	0830	122	4.9	--	--	0.02	0.66	0.87	0.050	0.008	95	130
17-20	0945	0845	101	3.6	--	--	<0.01	0.49	0.79	0.040	0.006	98	140
20-24	1025	0915	79	2.5	--	--	0.02	0.54	0.84	0.035	0.004	100	160
24-24	0945	2045	72	2.1	--	--	0.01	0.56	0.77	0.030	0.006	100	170
24-25	2145	0845	137	22	--	--	0.05	0.87	0.82	0.015	0.011	86	140
25-27	0945	0845	147	15	--	--	0.03	0.70	0.77	0.085	0.008	87	140
31...	1030	--	298	12	--	--	0.04	0.77	0.76	0.130	0.049	60	61
SEP													
03...	1530	--	354	31	135	13	0.03	0.89	0.89	0.235	0.043	65	63
04...	0855	--	252	21	--	--	0.03	0.72	0.79	0.145	0.045	67	85
08...	1030	--	112	4.5	--	--	0.01	0.56	1.10	0.075	0.028	110	140
08-10	1110	1010	93	3.8	--	--	<0.01	0.66	1.00	0.045	0.006	97	140
10-14	1140	0840	77	2.1	<6	<6	<0.01	0.48	1.00	0.025	0.005	110	160
14-17	0935	0835	90	1.8	--	--	<0.01	0.50	0.90	0.025	0.003	110	180
17-18	0945	1645	65	18	--	--	0.01	0.50	0.83	0.020	0.003	110	190
18-19	1745	0845	121	18	--	--	0.03	0.77	0.82	0.110	0.010	93	150
19-21	0945	0845	124	5.0	--	--	<0.01	0.59	0.73	0.045	0.005	86	140
21-22	0950	2350	207	22	--	--	0.01	0.71	0.63	0.110	0.009	75	100
23-24	0050	0850	128	40	96	15	<0.01	0.92	0.53	0.170	0.012	73	97
24-26	0925	0825	118	11	--	--	0.02	0.64	0.69	0.080	0.010	90	140
26-27	0925	2025	185	19	--	--	<0.01	0.77	0.60	0.100	0.008	79	110
27-28	2125	0825	204	34	88	15	<0.01	0.88	0.43	0.140	0.006	68	88
SEP 28- OCT 01	0945	0845	134	17	--	--	<0.01	0.70	0.61	0.101	0.008	84	110
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
OCT													
01-05	1000	0900	83	5.1	--	--	<0.01	0.61	0.82	0.035	0.005	100	160
05-07	0910	0710	69	3.2	--	--	0.02	0.24	1.00	0.040	0.006	110	180
09...	0920	--	111	16	--	--	0.12	0.58	1.20	0.170	0.091	110	160
09-10	1330	0430	299	70	227	38	0.07	1.6	0.52	0.300	0.018	67	100
10-13	0530	1030	160	45	89	16	0.02	0.90	0.45	0.160	0.009	74	110
13-15	1040	0940	98	6.0	--	--	<0.01	0.46	0.70	0.060	0.007	97	140
15-16	1045	0145	132	13	--	--	0.02	0.61	0.81	0.065	0.008	98	140
16-19	0245	0545	122	21	--	--	<0.01	0.90	0.68	0.110	0.006	92	140
19-22	1055	0955	93	3.3	--	--	<0.01	0.45	0.88	0.060	0.006	100	160
22-23	1025	2125	87	2.7	--	--	<0.01	0.42	0.87	0.030	0.005	100	100
23-24	2225	1325	112	5.0	--	--	<0.01	0.43	0.89	0.030	0.004	100	160
26-29	1030	0830	130	6.7	41	<5	<0.01	0.57	0.71	0.035	0.005	88	120
OCT 29- NOV 02	0920	0820	94	3.4	--	--	<0.01	0.43	0.89	0.030	0.003	99	160
02-03	1030	0930	312	22	--	--	<0.01	0.72	0.75	0.110	0.008	78	110
03-05	1030	0430	342	40	76	11	<0.01	0.88	0.53	0.270	0.012	60	75
05-08	1115	1415	237	14	--	--	<0.01	0.61	0.66	0.060	0.009	74	90
09-12	1110	1010	138	5.0	--	--	<0.01	0.57	0.88	0.035	0.006	92	130
13-16	1030	0930	136	4.9	--	--	<0.01	0.51	0.79	0.035	0.006	89	120
16-19	1105	1005	93	4.4	--	--	<0.01	0.62	0.96	0.030	0.004	140	140
19-22	1050	1350	134	4.0	--	--	<0.01	0.49	0.86	0.035	0.004	100	110
22-23	1450	0950	310	30	70	12	0.01	0.83	0.75	0.145	0.013	88	93
23-24	1105	2205	362	38	64	9	<0.01	0.83	0.69	0.140	0.010	77	79
24-25	2305	1005	449	45	99	14	0.01	0.96	0.71	0.170	0.014	68	68
25-30	1120	1020	267	28	--	--	0.01	0.72	0.88	0.100	0.010	76	93
NOV 30- DEC 03	1110	1010	150	4.9	--	--	<0.01	0.48	1.10	0.040	0.006	92	120
03-07	1055	0955	131	4.8	--	--	<0.01	0.48	1.20	0.035	0.004	120	120
07-10	1120	1020	122	3.2	--	--	<0.01	0.60	1.30	0.030	0.005	160	140
10-14	1100	1000	120	4.5	10	<10	0.02	0.48	1.30	0.035	0.005	250	130
14-16	1205	0505	140	16	14	<6	<0.01	0.46	1.20	0.035	0.005	180	120

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
DEC-continued													
16-17	0605	1005	286	55	132	27	<0.01	1.7	1.10	0.240	0.005	190	94
17-18	1100	0200	498	45	--	--	<0.01	1.1	0.96	0.250	0.007	140	58
18-21	0300	1000	439	35	--	--	<0.01	1.2	1.00	0.200	0.007	97	59
21-24	1130	0830	252	12	--	--	<0.01	0.72	0.59	0.055	0.009	98	90
24-28	0910	0810	150	7.3	--	--	0.02	0.63	1.40	0.050	0.008	130	110
28-29	1015	1215	135	6.4	--	--	0.02	0.63	1.40	0.035	0.007	140	130
29-31	1315	0215	332	32	--	--	0.02	1.2	1.10	0.140	0.011	160	93
DEC 31-													
JAN 04	1000	0900	413	45	225	15	0.01	0.94	1.00	0.160	0.006	100	70
04-05	1115	1015	417	39	135	15	0.01	1.1	1.10	0.170	0.011	120	81
05-07	1115	1015	425	40	99	12	0.01	1.1	0.95	0.150	0.014	87	70
07-11	1050	0950	217	8.2	--	--	<0.01	0.69	1.20	0.045	0.006	120	99
11-12	1105	2205	168	5.1	--	--	<0.01	0.36	1.40	0.030	0.004	160	120
12-13	2305	2205	256	24	--	--	0.02	0.72	1.30	0.100	0.006	300	100
13-14	2305	1205	415	40	122	18	<0.01	1.1	1.10	0.140	0.006	280	74
15-19	1035	0935	226	7.7	--	--	0.01	0.52	1.20	0.050	0.004	160	98
19-21	1110	1010	170	4.6	--	--	0.01	0.57	1.30	0.035	0.004	150	110
21-23	1100	0200	289	26	--	--	0.02	0.69	1.20	0.110	<0.005	180	86
23-25	0300	1000	436	36	91	<8	0.01	0.73	1.10	0.140	0.006	130	62
25-28	1120	0950	290	22	--	--	0.01	0.82	1.20	0.075	0.005	120	74
28-29	1105	1805	206	5.8	--	--	0.01	0.62	1.20	0.035	0.005	130	100
JAN 31-													
FEB 01	1505	1005	159	5.7	--	--	0.02	0.66	1.10	0.045	0.004	230	120
04...	1215	--	147	2.9	<7	<7	0.02	0.62	1.40	0.020	0.006	240	120
05-06	0930	2130	139	4.1	--	--	0.02	0.68	1.30	0.025	0.003	180	130
12...	1000	--	120	3.1	--	--	0.02	0.59	1.40	0.025	0.004	160	140
16...	1110	--	118	3.2	--	--	<0.01	0.51	1.40	0.025	0.002	200	150
18...	1100	--	114	2.8	--	--	<0.01	0.53	1.40	0.020	0.002	260	150
22...	1100	--	110	2.2	--	--	0.06	0.49	1.50	0.015	0.004	170	160
23...	1050	--	110	1.6	--	--	0.05	0.53	1.30	0.015	0.004	210	160
25...	1100	--	110	2.2	--	--	0.04	0.65	1.40	0.020	0.004	190	160
MAR													
01...	1100	--	109	2.3	--	--	0.04	0.45	1.50	0.030	0.004	170	160
04...	1045	--	123	3.1	--	--	0.02	0.59	1.40	0.020	0.004	270	140
08...	1100	--	181	3.6	--	--	0.02	0.49	1.30	0.025	0.005	360	120
09-10	0930	0230	198	3.9	--	--	0.01	0.67	1.20	0.035	0.005	350	100
11...	1105	--	177	3.2	--	--	0.02	0.57	1.30	0.025	0.005	320	110
11-15	1110	1010	159	3.6	--	--	0.02	0.63	1.30	0.025	0.004	290	120
15-18	1035	0835	210	5.3	--	--	0.02	0.47	1.30	0.035	0.004	260	120
18-22	0935	0835	191	4.2	--	--	0.01	0.64	1.30	0.035	0.004	220	100
22-25	0920	0820	307	24	84	10	0.02	0.84	1.60	0.130	0.005	210	81
25-29	0915	0815	721	70	272	21	0.03	1.2	1.20	0.270	0.010	120	48
29-30	0925	0025	1270	85	369	23	0.04	1.1	1.00	0.340	0.014	67	37
29-31	0925	0025	1360	85	294	19	0.04	1.1	1.00	0.340	0.014	67	37
APR													
01...	0945	--	1400	50	205	18	0.06	0.75	1.00	0.160	0.027	55	33
04-05	1750	0750	673	21	--	--	0.02	0.68	1.20	0.095	0.011	68	50
05-08	0935	0835	482	15	--	--	<0.01	0.61	1.20	0.070	0.004	72	58
10-12	1740	0040	398	14	--	--	0.01	0.76	1.00	0.065	0.004	81	67
12-14	0925	2025	245	5.4	--	--	0.01	0.51	N0.01	0.045	0.005	87	75
15...	1000	--	278	5.9	--	--	0.01	0.54	N0.01	0.045	0.007	94	91
16-17	1005	1805	381	22	--	--	0.02	0.75	1.00	0.100	0.004	92	82
17-19	1905	0905	388	38	72	11	0.02	0.82	0.80	0.110	0.006	79	69
19-22	0920	0820	246	14	--	--	0.01	0.99	1.10	0.085	0.004	97	92
22-24	0940	0840	528	60	--	--	0.03	1.2	0.87	0.190	0.009	73	60
24-26	2140	0840	314	21	--	--	0.03	0.78	0.99	0.095	0.006	87	76
26-29	0950	0850	268	16	--	--	<0.01	0.60	0.99	0.065	0.004	94	84
APR 29-													
MAY 03	0930	0830	191	5.5	--	--	<0.01	0.59	1.10	0.045	0.004	100	110
03-05	0920	0020	163	5.8	--	--	<0.01	0.59	1.00	0.045	0.005	99	130
05-05	0320	2320	187	14	--	--	<0.01	0.56	1.10	0.080	0.003	100	130
06-06	0020	0820	202	40	104	16	<0.01	1.2	1.10	0.170	0.004	92	100
06-10	0915	0815	159	12	--	--	0.02	N0.01	0.91	0.070	0.007	96	120

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
MAY-continued													
10-13	0925	0825	134	14	--	--	<0.01	0.67	0.99	0.070	0.003	100	--
13-17	0930	0830	120	12	--	--	0.02	0.66	1.00	0.065	0.004	99	--
17-20	0930	0520	109	13	--	--	N0.01	N0.01	1.10	0.060	0.004	100	160
20-24	0910	0810	103	6.8	--	--	N0.01	N0.69	N1.30	0.060	0.004	100	--
24-28	0900	0800	87	N13	--	--	--	--	1.30	0.070	0.005	110	160
28-31	0850	0350	81	19	--	--	N0.01	N0.01	1.30	0.100	0.008	110	170
31-31	0450	1950	114	40	110	17	--	--	1.30	0.210	0.008	110	170
MAY 31-													
JUN 01	2050	0750	135	58	205	29	--	--	1.10	0.320	0.015	100	140
01-03	1115	0915	94	25	--	--	N0.01	N0.95	1.30	0.130	0.011	110	160
05-05	0525	2025	318	N310	1510	158	--	3.5	1.00	0.770	0.011	92	120
05-06	2125	1225	238	N150	383	46	--	2.4	1.00	0.560	0.011	86	100
07...	0945	--	137	9.3	--	--	N0.01	0.98	1.10	0.075	0.016	110	120
07-08	1600	1500	119	32	88	11	--	1.1	0.98	0.160	0.007	110	140
08-09	1600	0600	151	32	88	13	--	0.99	1.00	0.190	0.006	110	130
09-09	0700	2400	166	35	102	14	--	0.98	0.97	0.160	0.006	98	120
10-10	0100	0900	194	50	140	19	--	1.2	0.93	0.200	0.006	94	120
10-11	1005	0205	145	36	135	23	0.02	1.3	0.90	0.220	0.006	97	120
14-17	0945	0845	80	14	--	--	0.02	0.83	0.91	0.110	0.004	120	170
17-19	0925	0025	74	24	--	--	<0.01	0.69	0.98	0.110	0.004	110	170
19-20	0125	0825	102	36	89	15	0.01	0.97	0.98	0.180	0.004	110	180
20-21	0925	0825	123	65	148	25	<0.01	1.2	0.78	0.260	0.005	92	52
21-24	0915	0815	93	37	86	14	0.01	0.91	0.93	N0.170	0.004	110	160
24-27	0935	1635	71	23	--	--	<0.01	0.87	1.00	0.130	<0.002	110	180
27-28	1735	0835	92	29	--	--	<0.01	0.83	0.95	0.140	0.005	110	180
JUN 28-													
JUL 02	0915	0715	83	31	72	12	<0.01	0.83	0.91	0.140	0.004	100	170
02-06	0815	0715	69	16	--	--	<0.01	0.64	1.00	0.100	0.002	120	190
06-08	0900	0800	55	11	--	--	<0.01	0.59	0.82	0.070	0.004	120	200
12-15	0915	0815	53	4.8	--	--	<0.01	0.61	0.85	0.060	0.010	120	210
15-19	0930	0830	48	14	--	--	<0.01	0.54	0.84	0.180	0.009	120	220
19-19	0930	1430	216	55	248	41	0.06	2.0	N0.68	0.240	0.012	110	N210
19-20	1530	1130	111	50	199	34	0.32	2.0	N0.71	0.260	0.018	75	N140
21-22	0900	0800	56	10	--	--	0.02	0.62	N0.90	0.070	0.008	110	>210
23-26	1200	0300	48	4.9	--	--	0.02	0.45	0.63	0.045	0.006	110	N210
26-26	0925	2025	74	23	--	--	0.04	1.1	N0.01	0.140	0.018	110	200
26-28	2125	1125	61	25	--	--	0.03	0.95	N0.01	0.140	0.015	100	200
JUL 29-													
AUG 02	0800	0900	59	23	--	--	0.01	N0.88	0.90	0.130	0.012	110	210
02-03	0915	1215	65	18	--	--	<0.01	N0.01	0.87	0.140	0.015	--	--
09...	1015	--	51	4.4	--	--	0.04	0.41	N0.92	0.045	0.014	110	200
10-11	0920	1720	47	17	--	--	0.01	0.84	N0.74	0.130	0.013	110	210
11-11	1820	2320	67	29	--	--	<0.01	0.92	N0.77	0.160	0.012	110	170
12-16	0935	0835	49	20	--	--	<0.01	0.83	0.82	0.130	0.013	110	200
16-17	1010	0010	52	18	--	--	0.01	0.85	0.82	0.100	0.015	110	210
17-17	0110	1510	78	30	83	14	0.01	0.95	0.93	0.130	0.017	100	190
17-19	1610	0910	55	27	--	--	<0.01	0.73	0.88	0.125	0.015	99	190
19-20	0935	0435	49	21	--	--	0.03	0.87	0.89	0.110	0.015	110	190
20-21	0535	0835	98	60	--	--	0.02	1.5	0.93	0.220	0.018	93	160
21-23	0935	0835	58	45	--	--	<0.01	1.1	0.88	0.200	0.015	99	170
23-26	0930	0830	47	30	67	11	<0.01	N0.99	--	0.135	0.018	120	200
26-30	0905	0805	42	30	--	--	<0.01	N1.1	--	0.170	0.015	120	220
30-31	0915	1415	42	28	--	--	<0.01	1.1	--	0.120	0.015	110	200
31-31	1515	2315	94	45	170	32	0.01	1.6	--	0.170	0.020	93	190
SEP													
01-02	0015	0815	70	35	137	20	<0.01	1.3	--	0.160	0.018	88	180
03-04	0035	0035	159	130	639	73	0.01	3.0	0.86	1.30	0.053	65	110
04-06	0135	0735	71	60	171	29	<0.01	1.4	0.82	N0.270	0.023	99	150
07-07	0930	1430	113	75	196	35	0.02	1.3	0.72	0.200	0.024	73	N120
09-09	0930	1815	64	7.9	--	--	0.02	0.70	0.77	0.065	0.024	120	N140
09-10	1515	1815	129	65	165	25	0.01	1.5	1.10	0.220	0.120	97	--
10-13	1915	0815	86	29	--	--	0.01	0.96	0.84	0.150	0.021	90	160
13-16	0910	0810	60	17	--	--	0.03	0.87	0.84	0.100	0.017	100	170

0423205010 Irondequoit Creek Above Blossom Road, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
SEP-continued													
16-20	0920	0820	55	12	--	--	<0.01	0.83	0.98	0.090	0.020	110	190
20-23	0920	0820	53	8.3	--	--	0.01	0.60	0.95	0.065	0.012	110	200
23-23	0900	2400	109	22	--	--	0.02	0.93	0.92	0.150	0.024	90	N170
24-25	0100	2400	70	14	--	--	0.02	0.79	0.90	0.100	0.020	100	N170
26-26	0100	1600	198	80	201	37	0.01	1.2	0.64	--	0.023	79	120
26-27	1700	0800	127	80	160	31	0.01	0.99	0.70	0.280	0.020	70	130
27-28	0905	0805	107	48	114	17	0.02	1.1	0.74	0.170	0.030	85	140
28-30	0905	0805	92	20	--	--	0.01	0.82	0.76	0.110	0.018	87	150
30-30	0920	2300	75	14	--	--	0.02	0.75	0.90	0.085	0.014	110	170
SEP 30-OCT 04	0920	0820	--	14	--	--	0.02	0.75	0.90	0.085	0.014	110	170

Surface-Water Stations

A. Discharge and water quality

0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

LOCATION.--Lat 43˚10'34", long 77˚31'37", Monroe County, Hydrologic Unit 04140101, on right bank 25 ft upstream from bridge on Empire Boulevard (Route 404), 200 ft upstream from mouth at south end of Irondequoit Bay, and 1.5 mi east of Rochester.

DRAINAGE AREA.--151 mi^2, flow from 8.45 mi^2 noncontributing.

1. WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

GAGE.--Ultrasonic velocity meter, water-stage recorder, and crest-stage gage. Datum of gage is 242.66 ft above sea level (levels by Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Records affected by backwater from Irondequoit Bay. Discharge includes undetermined diversion from Erie (Barge) Canal. Undetermined discharge (usually less than 5 percent of the total flow) bypasses gage through culvert 900 ft west of main channel. Unpublished gage-height record for March 1989 to May 1990 is available in files of U.S. Geological Survey. Unpublished water-quality records are available in files of Monroe County Department of Health.

EXTREMES FOR PERIOD June 1990 TO September 1993.--Maximum discharge, 2,130 ft^3/s, Apr. 3, 1993, maximum gage height, 6.64 ft, Apr. 23, 1993 (backwater from Irondequoit Bay), minimum daily discharge, 29 ft^3/s, Aug. 2, 1991.

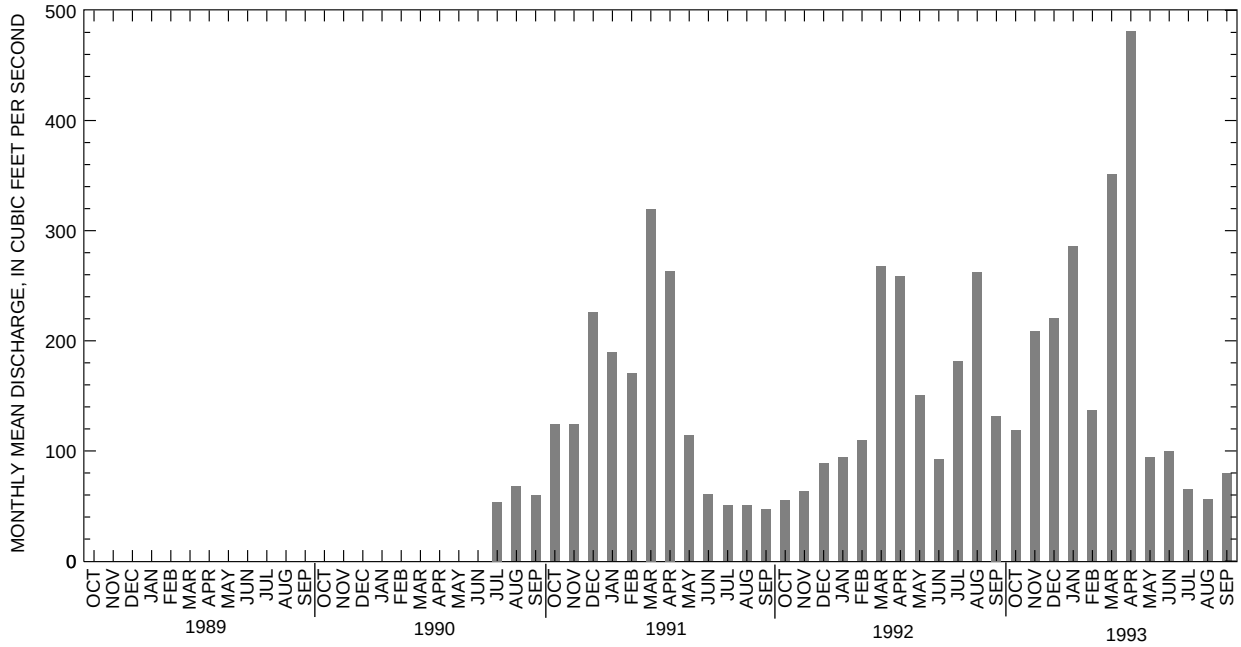
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1990-93, BY WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	99.3	132	178	190	138	313	334	119	83.9	87.5	109	79.4
MAX	124	208	226	286	170	351	481	150	99.2	181	262	132
(WY)	1991	1993	1991	1993	1991	1993	1993	1992	1993	1992	1992	1992
MIN	54.9	63.3	88.6	93.6	109	267	259	93.9	60.4	50.3	50.4	47.1
(WY)	1992	1992	1992	1992	1992	1992	1992	1993	1991	1991	1991	1991

SUMMARY STATISTICS

STATISTIC	FOR 1992 CALENDAR YEAR		FOR 1993 WATER YEAR		WATER YEARS 1981 - 1993	
ANNUAL TOTAL	63990		66798			
ANNUAL MEAN	175		183			
AVERAGE DISCHARGE					158	
HIGHEST ANNUAL MEAN					183	1993
LOWEST ANNUAL MEAN					145	1991
HIGHEST DAILY MEAN	1350	Mar 28	1870	Apr 2	1870	Apr 2 1993
LOWEST DAILY MEAN	49	Jul 1	29	Aug 28	29	Aug 28 1991
ANNUAL SEVEN-DAY MINIMUM	58	Feb 8	43	Aug 24	37	Aug 27 1990
INSTANTANEOUS PEAK FLOW			2130	Apr 3	2130	Apr 3 1993
INSTANTANEOUS PEAK STAGE			a 6.64	Apr 23	a 6.64	Apr 23 1993
10 PERCENT EXCEEDS	345		387		293	
50 PERCENT EXCEEDS	131		129		102	
90 PERCENT EXCEEDS	68		55		46	

a Backwater from Irondequopit Bay.



0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

2. WATER-QUALITY RECORDS

PERIOD OF RECORD.--1989 to current year.

CHEMICAL DATA: 1989-93 (e)

NUTRIENT DATA: 1989-93 (e)

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
02-02	0125	0825	--	17	--	--	0.03	0.79	0.60	0.145	0.011	98	190
04-06	1120	1020	--	12	--	--	0.02	0.66	0.56	0.115	0.010	110	180
06-10	1030	0930	--	2.6	--	--	0.03	0.39	0.62	0.085	0.013	100	170
13...	1035	--	--	2.0	--	--	0.06	0.23	0.57	0.065	0.010	120	190
16...	1025	--	--	5.5	--	--	0.07	0.51	0.82	0.070	0.013	84	170
17-18	1235	0535	--	45	--	--	0.04	1.5	0.49	0.280	0.012	77	130
19...	0950	--	--	3.7	--	--	0.08	0.72	0.59	0.070	0.019	92	150
23...	1000	--	--	8.0	--	--	0.10	0.51	0.67	0.065	0.019	99	130
23-26	1000	0900	--	13	66	13	0.06	0.89	0.79	0.160	0.017	110	170
26-30	0925	0925	--	12	--	--	0.05	0.39	0.65	0.095	0.025	110	180
OCT 30-													
NOV 02	0940	0840	--	10	--	--	0.04	0.66	0.52	0.120	0.013	110	170
02-06	1115	1015	--	2.5	--	--	0.05	0.54	0.56	0.080	0.011	110	160
06-07	0910	1410	--	4.4	--	--	0.05	0.63	0.68	0.105	0.012	120	180
07-09	1510	0810	--	16	--	--	0.06	0.83	0.73	0.155	0.016	100	150
09-13	1000	0900	--	3.7	--	--	0.09	0.62	0.72	0.055	0.027	110	150
13...	0930	--	--	2.6	--	--	0.18	0.80	0.69	0.065	0.024	120	160
13-14	1000	1800	--	2.4	--	--	0.10	0.75	0.76	0.090	0.020	120	160
14-16	1900	0900	--	5.0	--	--	0.10	0.60	0.60	0.105	0.014	120	160
16-20	0940	0840	--	7.2	--	--	0.05	0.79	0.61	--	0.011	110	150
20-22	0930	0830	--	16	--	--	<0.01	0.75	0.69	0.110	0.010	110	120
22-27	1005	0905	--	3.4	--	--	0.04	0.55	0.84	0.045	0.010	110	160
27-30	0930	0830	--	2.6	--	--	0.02	0.53	0.88	0.055	0.008	120	170
NOV 30-													
DEC 02	1015	0915	--	1.9	--	--	0.04	1.2	0.93	0.030	0.008	140	180
02-04	1015	0915	--	2.5	--	--	0.05	0.47	0.96	0.040	0.007	140	190
04-07	1040	0940	--	3.1	--	--	0.04	0.69	1.10	0.050	0.007	150	180
07-11	1010	0910	--	2.2	--	--	0.04	0.57	0.96	0.040	0.006	190	180
11-14	1015	0915	--	1.9	--	--	0.06	0.62	1.00	0.070	0.007	150	190
14-15	1015	1515	--	1.5	--	--	0.06	0.48	1.10	0.025	0.006	160	180
14-18	1015	1115	--	--	--	--	<0.01	0.12	<0.01	0.010	0.009	--	--
15-18	1615	1115	--	1.7	--	--	0.07	0.66	1.30	0.035	0.006	160	190
18-22	1030	0930	--	--	--	--	0.08	0.42	1.30	0.050	0.005	150	200
22-26	1100	1000	--	1.9	--	--	0.09	0.59	1.40	0.070	0.005	150	200
26-29	1100	1000	--	2.4	--	--	0.10	0.60	1.50	0.035	0.005	150	210
29-31	1035	1735	--	1.4	--	--	0.10	0.55	1.40	0.030	0.006	180	200
DEC 31-													
JAN 02	1835	0935	--	4.4	--	--	0.13	0.82	1.40	0.045	0.006	520	150
02-03	0945	1745	--	3.2	--	--	0.10	0.68	1.40	0.055	0.006	380	160
03-05	1845	0845	--	7.2	--	--	0.10	1.1	1.40	0.130	0.006	330	150
05-08	1015	0915	--	24	--	--	0.08	1.2	1.60	0.120	0.011	250	140
08-12	0915	0815	--	10	--	--	0.09	0.73	1.60	0.070	0.010	210	160
12-16	0925	0825	--	3.2	--	--	0.08	0.51	1.60	0.050	0.008	230	170
16-19	0945	0845	--	50	215	33	0.04	1.8	1.60	0.260	0.012	200	130
19-22	0940	0840	--	31	96	<26	0.07	1.2	1.70	0.130	0.011	160	120
22-25	1000	0900	--	3.5	--	--	0.07	0.92	1.60	0.090	0.008	230	150
25-29	0935	0835	--	3.4	--	--	0.04	0.73	1.60	0.050	0.008	170	150
JAN 29-													
FEB 01	0920	0820	--	3.4	--	--	0.05	0.73	1.40	0.045	0.005	250	170
01-05	0810	0710	--	20	--	--	0.06	0.81	1.50	0.130	0.011	250	120
05-06	1015	1215	--	12	--	--	0.05	0.73	0.84	0.075	0.007	210	120
06-08	1315	0915	--	18	--	--	0.03	0.75	1.50	0.095	0.006	300	120
08-09	0915	0415	--	33	132	18	0.04	1.1	1.70	0.175	0.014	250	98
09-12	0515	0815	--	60	280	35	0.04	1.7	1.60	0.350	0.019	140	80
15-18	1010	0710	--	28	--	--	0.08	1.0	1.60	0.130	0.010	190	84
18-20	0810	0910	--	20	--	--	0.05	0.89	1.50	0.120	0.010	140	75
20-22	1045	1545	--	8.0	--	--	0.05	0.84	1.50	0.060	0.008	150	110
22-23	1645	0945	--	110	324	43	0.05	1.8	1.20	0.380	0.016	140	62
23-26	1015	0915	--	80	204	26	0.02	1.4	1.50	0.260	0.010	120	62

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2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
FEB 26-													
MAR 01	1030	0930	--	15	--	--	0.03	0.72	1.70	0.075	0.008	150	110
01-05	0920	0820	--	17	--	--	0.04	0.65	1.70	0.080	0.008	170	120
05-08	1040	0940	--	12	--	--	0.03	0.77	1.60	0.085	0.008	150	130
08...	1040	--	--	3.5	--	--	0.04	0.74	1.70	0.040	0.008	150	150
08-10	1045	0945	--	9.0	--	--	0.03	0.85	1.70	0.070	0.008	150	160
10-12	1045	0945	--	70	153	20	0.02	1.3	1.50	0.165	0.007	140	100
12-15	0945	0845	--	80	174	23	0.06	1.4	1.40	0.230	0.042	100	72
15-17	0925	0425	--	65	196	20	0.06	1.2	1.20	0.240	0.023	120	100
17-19	0525	0825	--	60	157	18	0.06	1.2	1.10	0.200	0.014	120	95
19-22	1015	0915	--	23	--	--	0.02	1.1	1.20	0.125	0.008	120	100
22-26	0920	0820	--	5.8	--	--	0.04	0.73	1.30	0.055	0.008	130	110
26-29	0925	0825	--	0.85	--	--	0.03	0.83	1.30	0.070	0.005	130	140
MAR 28-													
APR 02	0925	0825	--	18	--	--	0.03	1.0	1.30	0.100	0.005	140	140
02-05	0945	0845	--	55	--	--	0.02	1.1	1.00	0.290	0.008	120	90
05-09	0915	0815	--	60	154	20	0.06	1.1	1.20	0.240	0.010	120	61
09-12	0945	0845	--	70	156	20	0.03	1.2	1.20	0.250	0.012	97	71
12-14	2030	0430	--	16	--	--	0.06	0.75	1.10	0.060	0.009	88	51
16...	0940	--	--	13	26	<5	0.08	0.93	1.50	0.060	0.008	110	84
19...	0945	--	--	7.6	--	--	0.06	0.75	1.40	0.040	0.009	120	100
23...	0915	--	--	17	--	--	0.06	0.83	2.80	0.085	0.007	100	84
26...	1045	--	--	9.0	--	--	0.05	1.0	1.10	0.075	0.006	120	100
30...	0940	--	--	18	--	--	0.08	0.97	0.81	0.090	0.008	120	110
01-03	0840	0740	--	39	111	20	0.01	1.5	0.90	0.200	0.005	130	130
03-04	0915	1615	--	24	--	--	0.03	0.43	0.90	0.120	0.005	130	130
04-07	1715	0815	--	1.0	--	--	0.03	0.73	0.95	0.150	0.004	100	94
07-10	0910	0810	--	24	--	--	0.03	0.89	N1.10	0.145	0.007	110	91
10-13	0945	1245	--	22	--	--	0.03	0.64	0.98	0.100	0.009	110	96
13-14	1345	0845	--	130	138	11	0.04	1.6	0.74	0.380	0.014	64	49
14-17	0945	0845	--	80	161	23	0.02	1.6	0.92	0.390	0.015	73	54
17-21	0945	0845	--	80	190	26	0.03	1.6	0.95	0.240	0.018	67	48
21-25	1055	0955	--	55	158	20	0.04	1.2	1.10	0.200	0.015	82	68
25-29	1010	0910	--	9.0	--	--	0.03	0.83	1.20	0.075	0.017	100	100
29-31	0925	0825	--	10	--	--	0.03	0.81	1.20	0.080	0.016	110	110
MAY 31-													
JUN 02	1040	0040	--	2.4	--	--	0.04	0.81	1.20	0.070	0.018	110	110
04...	0910	--	--	5.0	--	--	0.08	1.0	0.98	0.070	0.014	110	120
06-07	1000	0900	--	5.3	--	--	0.04	0.77	0.98	0.060	0.016	100	120
07-08	0918	1218	--	2.1	--	--	0.02	0.72	0.95	0.040	0.015	110	130
08-11	1318	0818	--	3.8	--	--	0.02	0.63	0.96	0.045	0.013	110	130
11-14	1010	0910	--	6.0	--	--	0.04	0.92	3.20	0.060	0.017	110	140
14-18	0925	0825	--	1.8	--	--	0.01	0.59	0.88	0.045	0.018	120	150
18-21	0930	0830	--	9.0	--	--	0.07	0.89	0.97	0.110	0.020	110	170
21-22	2115	2015	--	45	43	10	0.03	0.82	0.99	0.110	0.028	110	160
23-24	0115	1215	--	24	--	--	0.07	0.91	0.90	0.130	0.020	95	120
24-25	1715	0815	--	20	--	--	0.05	1.1	0.92	0.150	0.016	110	150
28-30	1018	0518	--	60	43	9	0.01	0.94	0.95	0.110	0.025	110	160
JUN 30-													
JUL 02	0618	0518	--	40	39	10	0.02	0.70	0.90	0.110	0.017	110	140
02-04	1015	2115	33	30	66	14	0.02	0.90	0.93	0.170	0.025	100	140
04-05	2215	0915	72	32	77	16	0.04	1.3	0.73	0.170	0.014	110	140
05-08	1005	0105	64	30	68	11	0.03	0.90	0.78	0.150	0.029	95	110
09-12	0920	0820	49	26	--	--	0.05	1.1	0.74	0.150	0.019	110	150
09...	1020	--	--	5.2	--	--	0.04	0.71	0.69	0.080	0.018	120	140
12-16	0930	0830	42	25	--	--	0.02	0.97	0.79	0.150	0.018	120	170
19...	1015	--	36	6.0	--	--	0.06	0.74	0.53	0.080	0.010	110	170
19-20	1030	0530	32	35	--	--	0.19	1.6	0.65	0.220	0.037	100	170
20-23	0630	0930	112	45	--	--	0.05	1.1	0.77	0.200	0.021	98	140
23-26	1030	0830	143	55	110	23	0.07	1.3	0.78	0.220	0.025	100	140
26-30	0920	0820	38	45	107	22	0.07	1.0	0.70	0.280	0.021	120	160
JUL 30-													
AUG 02	1030	0930	49	50	113	24	0.02	1.2	0.75	0.230	0.022	100	140
05-06	0100	0800	248	90	225	29	0.03	1.2	0.58	0.300	0.020	76	110

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2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
AUG-continued													
06-09	1100	0900	114	90	220	26	0.03	1.5	0.64	0.350	0.033	81	110
09-12	0945	1245	50	60	144	23	0.02	1.5	0.75	0.340	0.030	110	170
12-13	1345	0845	113	75	170	25	0.02	1.7	0.62	0.320	0.012	92	140
13-16	1125	1025	98	65	153	28	--	1.2	0.84	0.300	0.027	83	120
16-20	1025	0925	55	45	118	21	--	1.1	0.80	0.250	0.190	100	160
20-23	1155	0955	45	40	95	18	--	1.4	0.81	0.230	0.033	110	170
23-27	1035	0935	43	36	154	31	--	1.4	0.73	0.200	0.025	110	180
27-31	1040	0940	36	40	111	22	--	1.4	0.53	0.230	0.022	110	170
AUG 31-													
SEP 04	1130	1030	42	40	109	23	--	1.2	0.67	0.230	0.023	110	190
04-05	1140	0640	40	39	109	20	<0.04	1.4	0.63	0.230	0.024	110	180
05-06	0740	1040	139	80	217	38	<0.04	2.1	0.84	0.400	0.016	79	130
06-07	1125	0625	56	50	166	25	<0.04	1.1	1.20	0.280	0.040	83	130
07-10	0725	1025	111	80	231	35	<0.04	1.8	0.89	0.370	0.029	81	87
10-13	1115	1015	47	65	152	23	<0.01	1.5	0.79	0.250	0.029	100	160
13-14	1100	1800	45	65	160	24	<0.01	1.4	0.85	0.290	0.037	120	150
14-17	1900	1000	49	50	148	22	<0.01	1.5	0.72	0.260	0.024	110	150
17-20	1430	1030	46	35	94	16	0.02	1.1	0.85	0.210	0.021	110	180
20-24	1045	0945	53	33	103	22	<0.01	1.5	0.78	0.200	0.019	110	180
24-27	1100	1000	52	38	98	18	<0.01	1.0	0.80	0.210	0.016	110	110
27-29	1110	1810	--	32	95	15	0.02	1.0	0.80	0.190	0.022	110	120
SEP 29-													
OCT 01	1910	1010	--	45	143	22	0.02	1.2	0.80	0.260	0.016	98	94
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
01-04	1115	1015	59	27	--	--	<0.01	1.1	0.74	0.180	0.029	100	140
04-09	1050	0950	--	50	203	38	<0.01	1.3	0.66	0.270	0.023	100	150
09-11	1120	1020	153	70	229	40	0.03	1.8	0.68	0.340	0.020	94	120
11-13	1040	0540	280	110	385	56	0.02	1.6	0.60	0.530	0.025	69	77
13-15	0640	0940	264	85	275	36	0.02	1.5	0.77	0.410	0.025	78	69
15-18	1115	1015	96	40	125	20	0.02	1.3	0.92	0.230	0.026	100	110
18-18	1030	1330	72	60	--	--	0.02	1.4	0.98	0.300	0.031	83	130
18-22	1430	0930	115	55	131	25	0.03	1.3	0.78	0.240	0.025	91	110
22-23	1050	0650	98	55	188	27	0.02	1.1	0.95	0.260	0.023	97	140
23-25	0750	0920	--	65	209	28	0.01	1.4	0.87	0.290	0.021	86	120
25-29	1030	0930	106	28	--	--	0.01	1.0	1.10	0.190	0.021	98	110
OCT 29-													
NOV 01	1030	0930	85	23	--	--	0.02	1.1	1.10	0.160	0.017	100	120
01-05	1010	0910	71	43	139	20	0.04	1.2	0.98	0.240	0.022	110	150
05-09	1540	0840	118	26	--	--	--	1.1	0.92	0.160	0.016	100	130
09-09	0850	2350	90	5.1	--	--	0.03	0.76	0.93	0.085	0.013	110	140
10-13	0050	0750	208	28	--	--	0.02	1.1	0.91	0.160	0.016	110	86
13-15	1110	1010	146	13	--	--	0.06	0.82	1.10	0.120	0.014	140	100
15-19	1040	0940	138	19	--	--	0.02	0.98	1.00	0.110	0.015	120	100
19-21	1100	0800	103	16	--	--	0.03	1.1	1.10	0.100	0.012	120	130
21-22	0850	1350	80	18	--	--	0.02	1.1	1.20	0.120	0.017	120	140
22-26	1450	0750	106	22	--	--	0.02	1.1	0.99	0.140	0.012	110	100
26-27	1040	0640	109	12	--	--	0.02	1.0	0.91	0.110	0.014	120	110
27-29	0740	0940	162	27	--	--	0.02	1.0	0.90	0.160	0.011	120	130
NOV 29-													
DEC 03	1015	0915	97	13	--	--	0.01	0.73	0.04	0.075	0.011	120	130
03-04	1125	0725	124	18	--	--	0.02	1.0	1.20	0.110	<0.002	140	77
04-06	0825	1025	344	65	--	--	0.01	1.8	0.97	0.300	0.015	140	68
06-10	1030	0930	144	14	--	--	0.01	1.1	1.20	0.100	0.015	130	110
10-13	1035	0935	110	12	--	--	0.02	0.87	1.40	0.080	0.013	120	120
13-16	1010	0110	104	9.3	--	--	0.02	0.90	1.30	0.065	0.008	130	140
16-16	0210	0910	106	9.9	--	--	<0.01	0.73	1.30	0.065	0.008	130	140
16-17	1010	0910	207	28	--	--	0.03	0.94	1.20	0.130	0.008	120	100
17-17	1100	1600	193	29	--	--	0.03	1.2	1.20	0.180	0.013	100	100
20...	0920	--	317	25	--	--	0.06	0.86	1.10	0.110	0.019	100	58
21...	1015	--	167	14	--	--	0.07	0.94	1.20	0.075	0.016	95	81
21-23	1015	0015	186	32	85	14	0.03	1.1	1.30	0.190	0.018	98	78
23-24	0115	0915	295	90	255	28	0.02	1.4	1.10	0.330	0.015	83	59
24-28	0955	0855	188	32	70	15	0.01	1.0	1.40	0.140	0.019	110	87

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2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
DEC-continued													
28-30	1045	1545	131	7.5	--	--	0.02	0.74	1.70	0.065	0.019	130	130
DEC 30-													
JAN 02	1645	0945	747	110	326	24	0.02	1.4	1.20	0.390	0.023	100	41
02-04	1045	0945	262	32	71	10	0.03	0.94	1.60	0.130	0.021	100	18
04-07	1055	0955	157	20	--	--	0.02	0.82	1.80	0.120	0.019	120	94
07-10	1115	1015	119	12	--	--	0.04	0.75	1.90	0.075	0.013	130	110
10-14	1110	1010	127	12	--	--	0.02	0.75	1.80	0.070	0.014	150	100
14-16	1155	1355	112	11	--	--	0.03	0.63	1.80	0.065	0.013	170	140
16-17	1455	1055	288	40	105	15	0.04	0.85	1.40	0.170	0.012	220	84
17-22	1110	1010	281	26	--	--	0.02	0.91	1.50	0.130	0.022	130	67
22-24	1130	0930	171	14	--	--	0.03	0.77	1.80	0.080	0.022	130	84
24-28	1025	0925	115	7.8	--	--	0.01	0.78	1.90	0.065	0.015	130	120
28-31	1030	0930	100	8.2	--	--	0.03	0.78	1.70	0.055	0.012	170	110
JAN 31-													
FEB 04	1055	0955	103	6.7	--	--	--	0.66	1.70	0.050	0.008	210	140
04-07	1045	0945	272	29	--	--	0.02	0.97	1.50	0.100	0.016	160	72
07-11	1045	0945	244	16	--	--	0.01	0.85	1.50	0.120	0.014	120	74
11-15	1055	0955	130	7.5	--	--	0.02	0.68	1.50	0.055	0.007	170	100
15-19	1100	1000	108	7.4	--	--	0.02	0.63	1.80	0.050	0.007	210	120
19-20	1105	1005	292	27	--	--	0.02	0.83	1.40	0.120	0.008	200	100
20-21	1105	1005	331	40	107	14	0.02	0.98	1.20	0.160	0.006	130	71
21-25	1110	1010	164	13	--	--	0.02	0.72	1.30	0.065	0.007	130	99
25-28	1050	0950	109	4.9	--	--	0.02	0.78	1.20	0.050	0.006	150	130
FEB 28-													
MAR 02	1025	1725	112	9.9	--	--	<0.01	0.66	1.40	0.060	0.008	170	130
02-04	1825	0925	448	190	488	46	0.02	1.7	1.00	0.490	0.014	130	66
06-08	1110	1010	672	65	157	17	0.04	0.87	1.10	0.240	0.015	71	49
06...	1115	--	1010	45	66	<10	0.05	0.75	1.10	0.120	0.024	62	34
08-11	1015	0915	291	24	--	--	0.02	0.79	1.50	0.110	0.013	93	71
12...	0955	--	175	6.2	--	--	0.04	0.61	1.40	0.030	0.009	100	100
12-14	0955	0855	149	17	--	--	0.02	0.67	1.60	0.090	0.011	110	110
14-18	1040	0940	134	18	--	--	0.01	0.67	1.60	0.100	0.007	110	120
18-19	1035	0035	130	25	--	--	0.02	0.70	1.40	0.110	0.006	110	120
19-21	0135	0935	162	40	118	16	0.02	0.90	1.30	0.170	0.005	110	120
21-23	1050	0550	122	32	114	15	0.03	0.94	1.20	0.150	0.006	110	120
23-23	0650	2150	222	75	187	19	0.02	1.0	1.20	0.220	0.006	110	100
23-25	2250	0950	309	90	206	25	0.02	1.2	1.00	0.270	0.007	93	71
25-27	1055	0555	218	50	138	18	0.04	0.91	1.20	0.190	0.013	85	78
27-27	0655	2155	277	75	209	26	0.03	1.1	1.10	0.240	0.008	93	82
27-28	2255	0955	471	140	402	47	0.03	1.7	1.00	0.510	0.009	78	62
MAR 28-													
APR 01	1045	0945	338	95	213	25	0.02	1.2	1.10	0.230	0.016	80	49
01-01	1055	2155	179	34	93	17	0.05	0.92	1.20	0.170	0.015	95	50
01-04	2255	0955	168	34	114	20	0.02	0.95	1.30	0.200	0.011	100	100
04-08	1045	0945	130	60	202	35	0.02	1.6	1.20	0.270	0.014	110	98
08-09	1020	0020	173	65	--	--	0.07	0.99	1.30	0.250	0.020	100	120
09-10	0120	0020	206	95	--	--	0.04	1.4	1.20	0.340	0.022	95	100
10-11	0120	0920	260	110	281	42	0.04	1.4	0.96	0.390	0.016	83	82
11-15	1035	0935	142	45	119	19	0.03	1.3	0.98	0.190	0.015	93	100
15-16	0145	0945	--	60	156	25	0.02	1.4	0.84	0.280	0.012	82	84
15-16	1045	0045	176	50	149	19	0.03	1.3	1.10	0.230	0.017	100	110
18-20	1040	0140	127	36	89	11	<0.01	1.1	0.90	0.180	0.016	94	98
20-22	0240	0840	367	60	178	17	0.01	1.4	0.80	0.260	0.011	82	83
22-25	0935	0835	938	80	182	20	0.02	1.2	0.88	0.310	0.019	50	42
25-29	0940	0840	248	40	114	16	0.01	1.2	0.92	0.200	0.017	71	74
APR 29-													
MAY 02	0935	0835	178	38	122	15	0.02	1.2	1.00	0.220	0.016	92	100
02-06	1100	0900	140	26	80	12	0.02	0.97	1.10	0.170	0.015	93	120
06-09	0940	0840	124	30	81	15	<0.01	0.96	0.98	0.160	0.013	90	110
09-13	1040	0940	119	28	--	--	0.02	1.2	0.87	0.150	0.015	96	130
13-16	0945	0845	108	39	--	--	--	1.2	0.69	0.180	0.008	99	130
16-17	1020	0920	96	38	--	--	--	1.1	0.68	0.180	0.009	100	140
17-17	1020	2120	98	41	122	19	--	1.5	0.73	0.190	0.010	96	140
17-20	2220	0920	201	36	--	--	--	1.2	0.80	0.220	0.013	88	120
20-23	0935	0835	85	40	130	25	0.03	1.1	0.85	0.210	0.012	99	120
23-26	1105	1305	65	50	156	30	0.04	1.2	0.60	0.240	0.012	110	140

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2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
MAY-continued													
26-26	1405	2305	146	45	132	<28	0.03	1.3	0.60	0.240	0.012	98	150
27-28	0005	0905	147	75	--	--	0.03	1.3	0.58	0.320	0.017	83	110
28-30	0955	0855	73	50	150	19	0.03	1.4	0.88	0.250	0.017	96	120
MAY 30-													
JUN 03	0940	0840	60	45	150	19	0.02	0.49	1.10	0.230	0.019	110	140
03-06	0930	0930	--	50	130	18	<0.01	1.4	0.94	0.300	0.037	120	160
06...	1140	--	43	23	--	--	0.03	1.1	0.94	0.190	0.019	120	160
06-10	1200	0900	56	39	110	18	<0.01	0.24	0.79	0.240	0.019	96	160
06...	1205	--	43	11	--	--	0.04	1.2	0.89	0.100	0.015	110	160
10-11	0925	1425	44	39	109	16	<0.01	1.3	0.82	0.200	0.030	120	160
11-12	1525	1125	75	34	109	17	<0.01	0.88	0.98	0.240	0.028	110	170
12-12	1225	2025	129	34	93	<19	<0.01	1.3	1.20	0.220	0.023	100	140
12-13	2125	0825	152	75	--	--	<0.01	1.4	1.10	0.400	0.023	81	110
13-17	0930	0830	68	45	100	16	<0.01	1.0	0.87	0.240	0.025	95	130
17-20	0940	0840	62	40	150	17	<0.01	1.0	0.99	0.230	0.036	110	170
20-24	0930	0820	52	37	123	18	0.05	1.2	0.67	0.230	0.005	110	180
24-27	0935	0835	52	37	107	19	0.04	1.6	0.70	0.230	0.028	110	210
JUN 27-													
JUL 01	0935	0835	43	32	131	29	0.02	1.3	0.52	0.050	0.019	120	180
01-04	0935	1635	44	33	99	18	<0.01	1.2	0.62	0.240	0.027	110	180
04-05	1735	0835	73	37	102	21	<0.01	1.3	0.60	0.240	0.019	110	190
05-06	0925	0225	75	37	125	26	0.02	0.65	0.71	0.240	0.034	100	170
06-07	0325	0825	114	55	--	--	0.03	0.74	0.88	0.280	0.035	82	140
07-07	0925	1725	86	34	118	23	0.04	0.63	0.87	0.250	0.037	85	160
07-08	1825	0825	82	45	102	20	0.05	0.59	0.73	0.240	0.031	82	140
08-09	0935	2035	45	38	102	18	<0.01	1.3	0.88	0.290	0.043	85	150
09-10	2135	2035	50	34	92	16	0.02	1.2	0.75	0.270	0.031	96	170
11-15	0935	0835	51	18	--	--	0.10	1.2	0.71	0.170	0.016	110	110
15-18	0950	0850	45	33	98	20	<0.01	1.2	0.62	0.200	0.034	110	200
18-21	0935	1635	40	35	135	24	<0.01	1.4	0.50	0.210	0.028	95	200
21-22	1735	0835	76	38	142	25	<0.01	1.3	0.52	0.230	0.018	110	190
22-23	0935	2035	55	45	157	25	0.02	1.3	0.70	0.240	0.016	89	160
23-25	2135	0835	45	40	146	25	0.02	1.2	0.66	0.270	0.020	90	150
25-29	0940	0840	39	34	156	9	0.02	1.3	0.54	0.230	0.028	110	180
29-30	0930	0830	93	31	--	--	<0.01	1.3	0.43	0.240	0.020	110	200
JUL 30-													
AUG 01	0945	0845	39	37	24	<24	0.05	1.2	0.45	0.260	0.027	110	190
01-03	0945	0445	32	38	--	--	0.02	0.93	0.58	0.180	0.031	110	200
03-03	0545	2045	93	29	--	--	0.01	1.1	0.68	0.200	0.030	110	200
03-05	2145	0845	59	35	--	--	0.03	1.3	0.83	0.210	0.021	94	110
05-08	0945	0845	49	30	81	24	0.02	1.2	0.55	0.220	0.022	99	170
08-09	0945	0045	43	30	71	19	<0.01	1.2	0.70	0.230	0.037	110	170
09-09	0145	1645	101	36	89	23	<0.01	1.3	0.77	0.250	0.038	110	170
09-11	1745	0045	97	40	110	26	<0.01	1.2	0.80	0.350	0.038	110	120
12...	0940	--	40	5.5	--	--	0.08	0.67	0.57	0.065	0.021	99	160
15...	0920	--	62	30	45	9	0.15	0.91	0.70	0.160	0.013	84	97
15-19	0920	0820	42	37	--	--	0.03	1.6	0.52	0.240	--	110	150
22...	0915	--	46	8.9	--	--	0.02	0.59	0.66	0.065	0.021	89	160
22-26	2055	0855	38	9.2	--	--	<0.01	1.1	0.49	0.190	0.011	100	78
26-30	0910	0810	37	29	--	--	<0.01	1.0	0.51	0.180	0.022	120	200
30-31	0900	0400	29	31	--	--	0.03	1.1	0.42	0.180	0.012	120	210
AUG 31-													
SEP 03	0500	0800	45	30	95	16	0.02	1.2	0.67	0.190	0.013	100	210
03-04	0925	0825	40	32	--	--	0.03	0.92	0.66	0.160	0.012	110	240
04-05	0925	0825	44	32	86	14	0.02	0.88	0.74	0.180	0.016	110	210
05-09	1050	0950	39	33	88	16	0.02	1.0	0.73	0.100	0.027	100	200
09-11	1450	0150	40	32	--	--	0.03	1.1	0.67	0.230	0.032	110	170
11-12	0250	0950	49	36	--	--	0.03	1.3	0.80	0.270	0.023	100	170
12-15	1045	0945	40	36	90	16	0.03	1.2	0.79	0.210	0.032	110	170
15-16	1045	0945	81	50	134	21	0.04	1.4	0.95	0.260	0.020	91	150
16-19	1100	1000	38	N25	--	--	0.12	0.90	0.82	0.230	0.029	100	170
19-23	1130	1030	40	30	--	--	0.01	0.75	0.81	0.200	0.027	110	180
23-25	1055	0355	37	30	73	14	<0.01	0.90	0.75	0.160	0.024	110	190
25-25	0455	1555	141	40	96	16	0.03	1.1	0.79	0.220	0.020	98	160
25-26	1655	0955	142	50	169	25	<0.01	1.6	0.67	0.250	0.018	60	110
26-30	1030	0930	47	22	--	--	0.01	0.97	0.80	0.160	0.026	98	170

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2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
OCT													
03-05	1015	0015	44	26	--	--	0.01	1.0	0.90	0.210	0.025	110	200
05-07	0215	0915	57	28	--	--	0.01	1.1	0.86	0.210	0.020	120	200
10-15	1030	0030	67	25	--	--	0.01	0.96	0.85	0.170	0.020	100	200
15-16	1040	0540	79	18	--	--	0.01	1.1	0.72	0.110	0.014	110	210
17-19	1040	0940	53	16	--	--	0.01	0.51	0.65	0.130	0.014	100	--
NOV													
08-11	1045	2145	42	4.4	--	--	0.04	0.43	0.72	0.045	0.007	110	220
12-14	1115	1015	71	7.5	--	--	0.10	0.61	0.74	0.065	0.009	150	160
21-24	1045	0945	66	8.9	--	--	--	0.66	0.80	0.065	0.014	130	200
25...	1115	--	58	7.9	--	--	--	0.60	0.79	0.040	0.014	130	180
25-25	1115	1815	66	13	--	--	0.05	0.74	0.84	0.050	0.008	120	190
25-25	1915	2215	98	12	--	--	0.02	0.67	0.84	0.065	0.010	120	200
25-27	2315	1015	87	9.2	--	--	0.02	0.54	0.68	0.070	0.011	130	170
29-29	0300	1700	108	--	--	--	--	0.63	0.42	0.095	0.012	150	150
NOV 29-													
DEC 02	1800	1000	95	12	--	--	--	0.74	0.85	0.080	0.013	120	160
02-03	1100	0400	61	12	--	--	0.05	0.50	0.91	0.055	0.010	130	190
03-03	0500	1600	218	26	--	--	0.05	0.82	0.82	0.140	0.015	210	150
03-05	1700	1000	155	22	--	--	0.04	0.69	0.78	0.120	0.018	200	140
05-07	1225	1525	71	15	--	--	0.07	0.66	1.00	0.065	0.011	190	--
07-08	1625	0325	90	14	--	--	0.07	0.60	1.10	0.070	0.015	260	--
08-09	0425	1125	86	11	--	--	0.06	0.66	1.10	0.070	0.014	260	--
09-12	1105	1005	77	11	--	--	0.03	0.74	1.00	0.080	0.018	180	190
12-16	1110	1010	66	5.1	--	--	0.02	0.46	0.92	0.025	0.009	130	190
16-19	1140	1040	46	6.7	--	--	0.04	0.86	1.20	0.065	0.012	170	210
19-22	1120	0620	53	6.7	--	--	0.06	0.60	1.20	0.045	0.011	210	220
23...	1120	--	62	4.6	--	--	0.17	0.66	1.10	0.050	0.011	280	210
24-26	1555	1155	56	5.5	--	--	0.06	0.55	1.10	0.040	0.012	230	190
26-29	1235	0335	55	3.9	--	--	0.05	0.75	1.10	0.045	0.015	200	--
29-30	0435	1135	256	43	152	43	0.06	1.3	0.91	0.230	0.022	210	120
DEC 30-													
JAN 02	1230	1130	131	14	--	--	0.05	0.90	1.30	0.085	0.016	210	130
02-06	1040	0940	82	7.6	--	--	0.06	0.68	1.40	0.050	0.012	170	180
06-09	1035	0935	81	6.5	--	--	0.05	0.60	1.40	0.035	0.011	160	190
09-13	1210	1110	76	2.6	--	--	<0.01	0.34	1.40	0.020	0.002	200	190
13-14	1015	--	80	5.7	--	--	0.05	0.68	1.40	0.040	0.010	240	180
14-17	0830	0730	103	8.2	--	--	0.04	0.53	1.60	0.055	0.012	180	160
17-21	1225	1025	69	3.2	--	--	0.17	0.57	1.70	0.035	0.010	200	200
21-23	1055	0955	67	3.3	--	--	0.06	0.49	1.60	0.030	0.010	230	210
23-24	1105	0205	147	12	--	--	0.07	0.74	1.40	0.080	0.010	350	170
24-27	0305	1005	157	8.0	--	--	0.05	0.60	1.50	0.065	0.011	320	150
27-30	1020	0920	85	3.7	--	--	0.05	0.52	1.60	0.030	0.010	200	190
FEB													
03-06	1040	0940	62	3.7	--	--	0.03	0.58	1.50	0.030	0.009	180	200
06-10	1030	0930	59	2.5	--	--	0.04	0.45	1.50	0.025	0.008	240	210
10-14	1035	0935	58	4.1	--	--	0.04	0.57	1.40	0.035	0.007	250	220
14-15	1015	1715	72	3.7	<23	<23	0.05	0.43	1.20	0.030	0.009	270	200
15-16	1815	1715	151	21	28	<21	0.09	0.70	1.30	0.075	0.008	390	240
16-17	1815	1915	155	18	33	<21	0.08	0.77	1.30	0.085	0.009	280	130
18-19	1130	1430	135	18	--	--	0.05	0.77	1.50	0.085	0.008	240	120
19-20	1530	0930	160	23	--	--	0.05	0.86	1.50	0.095	0.009	230	120
20...	1000	--	170	--	--	--	--	--	--	--	--	--	-
20-22	1015	2115	148	9.0	--	--	0.04	0.64	1.70	0.060	0.009	190	140
22-24	2215	0915	176	10	--	--	0.04	0.73	1.70	0.065	0.009	200	140
24-27	1040	0940	168	11	--	--	0.03	0.59	1.90	0.050	0.009	180	130
27-28	1000	1700	141	3.9	--	--	0.04	1.0	2.00	0.035	0.008	150	150
MAR													
02-05	1035	0935	110	3.0	--	--	--	0.74	1.60	0.060	0.006	180	170
05-07	1005	0105	106	4.2	--	--	0.03	0.55	1.30	0.030	0.006	140	160
07-08	0205	0105	191	17	--	--	0.03	0.61	1.20	0.080	0.006	170	140
08-09	0205	0905	284	31	84	12	0.03	0.90	1.40	0.130	0.010	150	110
09-10	1115	1915	225	17	--	--	0.04	1.0	1.70	0.130	0.008	140	120
10-12	2015	1015	133	17	--	--	0.04	0.84	1.50	0.130	0.007	140	130

0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
MAR-continued													
12-16	1135	0930	139	4.4	--	--	0.04	0.82	1.60	0.045	0.007	210	150
16-19	1020	0920	135	5.9	--	--	0.04	0.69	1.70	0.035	0.006	240	150
19-23	1005	0905	158	3.6	--	--	0.02	0.68	1.40	0.030	0.005	220	130
23-25	1010	1510	121	2.7	--	--	0.03	0.69	1.50	0.030	0.004	310	130
25-26	1610	0910	220	12	--	--	0.03	0.72	1.30	0.070	0.003	260	130
26-28	1000	0400	673	90	367	37	0.04	1.8	1.30	0.460	0.008	140	66
28-30	0500	0900	935	55	125	16	0.04	1.2	1.60	0.200	0.016	120	56
MAR 30-													
APR 02	1015	0915	459	25	--	--	0.03	0.82	1.40	0.100	0.006	140	140
02-06	1010	0910	239	15	--	--	0.03	0.76	1.60	0.065	0.009	120	100
06-09	1010	0910	139	29	--	--	0.03	0.95	1.50	0.150	0.006	130	130
09-11	1005	0905	86	16	--	--	0.04	0.93	1.40	0.100	0.006	140	140
11-12	1005	0905	298	40	124	14	0.06	1.2	1.40	0.170	0.008	130	110
12-13	1005	0905	347	50	115	14	0.05	1.0	1.20	0.190	0.010	110	87
13-16	1030	0930	172	19	--	--	0.02	0.72	1.20	0.095	0.008	120	110
16-17	1005	1705	481	50	170	21	--	0.40	1.30	0.210	0.009	98	83
17-19	1805	0505	566	36	92	12	--	0.91	1.30	0.140	0.011	88	69
19-20	0605	0905	395	25	--	--	--	0.70	1.30	0.130	0.010	91	79
20-21	1020	1520	275	25	81	11	0.03	0.84	1.20	0.120	0.007	100	89
21-22	1620	1220	323	34	103	15	0.02	1.1	1.20	0.190	0.007	110	89
22-23	1320	0920	345	34	97	13	0.02	0.90	1.10	0.180	0.011	100	86
23-27	1040	0940	261	25	--	--	0.03	0.84	1.20	0.140	0.011	100	96
27-30	0925	0855	146	20	--	--	0.02	0.89	1.10	0.110	0.016	110	110
APR 30-													
MAY 02	1020	1720	126	21	--	--	0.04	0.85	1.20	0.130	0.010	110	110
02-04	1820	0920	581	120	256	3	0.06	1.6	0.90	0.360	0.013	70	75
04-07	1025	0925	262	60	107	16	0.03	1.2	0.92	0.230	0.008	85	81
07-11	1045	0945	135	26	--	--	0.03	0.94	0.87	0.140	0.014	100	120
11-14	1020	0920	103	21	--	--	0.03	0.94	0.80	0.140	0.010	110	130
14-18	1005	0105	91	22	--	--	0.04	0.84	0.92	0.120	0.008	110	140
18-18	0205	0905	100	32	82	16	0.04	1.1	0.98	0.150	0.008	120	150
18-20	1020	1045	142	34	--	--	0.05	1.3	0.94	0.160	0.013	99	140
26-26	0830	1630	38	20	--	--	0.09	1.1	1.00	0.120	0.014	120	160
28-30	1615	1115	91	6.0	--	--	0.04	0.70	0.99	0.056	0.009	110	150
31-31	1215	2315	94	6.1	--	--	0.04	0.58	1.00	0.055	0.010	100	150
JUN													
01-04	1030	0630	--	31	87	<13	--	1.1	--	0.175	0.015	98	130
04-07	1025	0125	88	31	59	11	0.04	1.1	0.98	0.190	0.019	110	140
07-08	0225	0125	147	34	84	13	0.03	1.3	1.00	0.210	0.019	110	140
08-11	1035	0935	88	34	--	--	0.02	1.3	0.98	0.190	0.024	110	130
11-15	1020	0920	65	30	76	16	0.00	1.3	0.76	0.170	0.020	120	150
15-18	1020	0920	65	29	--	--	<0.01	1.3	0.73	0.160	0.015	130	170
18-19	1005	0905	51	31	78	<16	0.03	1.3	0.78	0.180	0.020	130	190
19-20	1005	0505	119	35	89	12	0.03	1.4	0.92	0.180	0.021	120	170
20-22	0605	0905	83	40	94	13	0.04	1.2	1.00	0.210	0.023	89	140
22-24	1030	0630	40	21	--	--	0.02	0.92	1.00	0.135	0.026	110	160
24-25	0730	0930	111	38	--	--	0.03	1.1	1.10	0.170	0.022	110	160
25-27	1020	0520	69	32	67	12	0.02	1.1	1.10	0.085	0.025	100	140
27-28	0620	0520	97	29	74	12	0.01	1.2	0.97	0.140	0.025	110	170
28-29	0520	0920	76	33	74	12	0.01	0.87	0.91	0.140	0.021	98	150
JUN 29-													
JUL 02	1010	0910	52	27	--	--	<0.01	1.2	0.85	0.130	0.021	110	200
02-03	1015	0915	55	23	--	--	0.02	1.3	0.75	0.150	0.017	100	190
03-04	1015	0515	108	32	90	14	0.02	1.2	0.78	0.160	0.018	120	170
04-06	0615	0915	83	35	--	--	0.02	1.2	0.87	0.220	0.018	94	150
06-08	1105	1905	51	26	--	--	--	0.85	--	0.140	0.022	110	160
08-09	2005	1005	134	34	91	15	--	1.0	--	0.150	0.020	110	170
09-12	1005	1705	85	45	100	13	0.02	1.1	0.85	0.150	0.024	88	150
12-13	1805	0905	95	40	101	14	0.02	1.2	0.93	0.200	0.026	110	170
13-14	1035	0635	110	45	116	15	0.03	1.1	--	0.220	0.025	83	110
14-15	0735	1835	292	80	214	29	0.02	1.5	--	0.340	0.027	75	97
15-16	1935	0935	503	150	--	--	0.03	2.4	--	0.530	0.031	52	58
16-17	1100	1000	407	80	197	32	0.03	1.8	2.00	0.300	0.036	67	75

0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
JUL-continued													
17-18	1100	1400	560	150	329	40	0.02	1.9	1.50	0.460	0.034	59	62
18-20	1500	1000	511	80	203	27	0.02	1.5	1.20	0.290	0.033	56	64
20-23	1020	0920	169	35	91	13	0.03	1.2	1.00	--	0.034	87	95
23-27	1100	1000	154	34	60	10	0.03	0.92	1.10	0.220	0.032	92	110
27-29	0945	1320	87	28	--	--	0.01	0.80	1.00	0.160	0.031	100	130
29...	1000	--	--	--	--	--	--	0.40	1.00	0.050	--	--	-
29...	1005	--	--	--	--	--	--	0.50	1.00	0.060	--	--	-
29...	1010	--	--	--	--	--	--	0.40	1.00	0.050	--	--	-
29...	1015	--	--	--	--	--	--	0.40	1.00	0.050	--	--	-
29...	1020	--	--	--	--	--	--	0.50	1.10	0.040	--	--	-
29...	1025	--	--	--	--	--	--	0.50	1.10	0.040	--	--	-
29...	1030	--	--	--	--	--	--	0.50	1.10	0.040	--	--	-
29...	1035	--	--	--	--	--	--	0.50	1.10	0.040	--	--	-
29...	1040	--	--	--	--	--	--	0.50	1.00	0.040	--	--	-
29...	1045	--	--	--	--	--	--	0.50	1.00	0.050	--	--	-
29...	1050	--	--	--	--	--	--	0.50	1.00	0.050	--	--	-
29...	1055	--	--	--	--	--	--	0.40	1.00	0.030	--	--	-
29-31	1520	0920	119	26	--	--	0.01	0.96	0.95	0.140	0.023	99	130
JUL 31-													
AUG 01	1015	1515	353	55	108	14	0.01	0.85	0.76	0.150	0.030	71	87
01-03	1615	0915	232	55	97	14	0.02	1.1	0.68	0.240	0.030	63	71
03-04	1050	2150	493	100	263	28	0.02	1.6	0.87	0.180	0.040	56	59
04-06	2250	0950	584	55	146	19	0.02	1.3	0.73	0.220	0.042	54	69
06-08	1015	1315	212	32	74	11	0.02	0.96	1.00	0.180	0.039	74	72
08-09	1415	0415	222	34	76	12	0.03	1.4	1.10	0.180	0.035	84	88
09-10	0515	0915	186	45	86	12	0.02	1.1	1.10	0.190	0.033	78	91
10-13	1000	0900	131	30	64	11	0.01	0.91	0.99	0.180	0.038	89	110
13-17	1000	0900	108	24	--	--	0.02	1.0	1.00	0.140	0.030	98	120
17-20	1010	0910	86	24	--	--	0.01	0.84	0.95	0.140	0.026	100	140
20-24	1055	0955	74	22	--	--	0.03	0.86	0.87	0.140	0.018	110	160
24-24	1015	2115	70	18	--	--	<0.01	0.79	0.78	0.130	0.013	110	160
24-25	2215	1215	158	26	--	--	<0.01	0.79	0.77	0.130	0.013	100	150
25-27	1315	0915	161	37	--	--	0.02	0.91	0.78	0.170	0.018	82	120
27-27	1005	1305	303	36	--	--	0.04	1.1	0.83	0.200	0.025	99	130
27-28	1405	1305	377	190	457	45	0.03	2.2	0.66	0.650	0.034	53	65
28-31	1405	0905	845	70	153	17	0.03	1.3	0.49	0.300	0.047	44	41
AUG 31-													
SEP 03	1050	0550	194	22	--	--	0.02	0.91	0.90	0.185	0.046	71	78
03-03	0650	2150	229	22	--	--	0.02	0.81	0.49	0.190	0.040	79	98
03-04	2250	0850	295	45	101	14	0.02	1.2	0.88	0.260	0.030	61	68
04-08	0920	0820	146	26	--	--	0.01	0.86	0.90	0.160	0.037	93	100
08-10	1140	1040	88	24	--	--	0.02	1.2	1.00	0.170	0.029	100	130
10-14	1200	0900	73	20	46	<15	0.02	0.94	1.00	0.135	0.027	110	160
14-17	1000	0900	63	15	--	--	0.01	0.84	0.92	0.110	0.012	120	170
17-18	1005	1705	59	18	--	--	<0.01	0.88	0.83	0.130	0.010	110	180
18-19	1805	1305	133	22	--	--	<0.01	1.1	0.44	0.150	0.014	110	160
19-21	1405	0905	110	21	--	--	0.01	0.92	0.84	0.140	0.021	84	140
21-23	1015	0315	199	30	72	13	0.03	0.79	0.79	0.170	0.025	80	110
23-24	0415	0915	192	39	69	12	0.02	0.93	0.75	0.160	0.032	73	96
24-26	0955	0855	102	26	--	--	0.01	0.94	0.83	0.160	0.031	87	110
26-27	0955	2055	185	28	--	--	0.02	0.91	0.46	0.180	0.028	84	120
27-28	2155	0855	225	40	101	17	0.01	1.0	0.75	0.220	0.030	68	99
SEP 28-													
OCT 01	1005	0905	--	31	--	--	0.01	0.98	0.84	0.170	0.029	84	110
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
OCT													
01-05	1025	0910	88	21	--	--	0.01	0.96	1.10	0.130	0.024	100	150
05-09	0940	0840	73	16	--	--	0.03	0.60	1.20	0.095	0.020	110	170
09-10	0945	0845	256	40	104	19	0.03	0.94	1.00	0.190	0.024	87	130
10-13	0945	0845	167	55	105	19	0.02	0.94	0.67	0.200	0.027	74	100
13-15	1100	1000	102	20	--	--	0.02	0.70	0.91	0.130	0.023	99	140
15-16	1505	0605	149	22	--	--	0.01	0.84	1.00	0.150	0.021	99	140
16-19	0705	1005	122	18	--	--	0.02	0.82	1.00	0.150	0.020	94	130

0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
OCT-continued													
19-22	1115	1015	98	13	--	--	0.02	0.66	0.98	0.120	0.017	100	150
22-24	1050	0450	93	17	--	--	0.01	0.65	1.10	0.095	0.017	110	160
24-26	0550	0950	183	30	54	14	0.02	0.79	1.00	0.140	0.015	90	130
26-29	1115	0915	135	18	--	--	0.02	0.75	0.89	0.095	0.016	89	120
OCT 29-													
NOV 02	0945	0845	98	13	--	--	0.02	0.65	1.00	0.085	0.017	100	150
02-03	1010	2110	316	45	135	15	<0.01	1.1	0.87	0.310	0.026	79	110
03-05	2210	0910	336	50	105	14	<0.01	1.0	0.57	0.190	0.026	61	73
05-09	1030	0930	228	21	--	--	<0.01	0.69	0.82	0.120	0.022	77	90
09-12	1045	0945	144	12	--	--	<0.01	0.66	1.20	0.060	0.017	93	120
12-13	1005	1705	162	24	--	--	<0.01	0.77	1.00	0.130	0.020	92	130
13-16	1805	0905	139	12	--	--	<0.01	0.60	0.91	0.070	0.018	94	120
16-19	1035	0935	92	6.8	--	--	0.02	0.80	1.10	0.060	0.016	150	140
19-22	1025	1325	131	8.6	--	--	0.02	0.64	1.00	0.070	0.014	120	120
22-25	1425	0925	352	32	69	12	0.02	0.78	0.92	0.150	0.018	87	99
23-25	1030	0930	387	45	86	12	0.01	0.85	0.76	0.180	0.020	77	78
25-30	1050	0950	285	30	49	9	0.02	0.84	0.97	0.130	0.024	78	91
NOV 30-													
DEC 03	1040	0940	141	7.3	--	--	0.02	0.63	1.40	0.065	0.020	94	120
03-06	1025	0925	133	6.7	--	--	0.02	0.52	1.40	0.060	0.017	110	120
07-10	1025	0925	118	5.2	--	--	0.02	0.63	1.40	0.060	0.016	170	140
10-14	1025	0925	134	5.3	<10	<10	0.02	0.56	1.40	0.050	0.014	250	130
14-16	1125	0725	147	5.6	11	<8	0.02	0.60	1.30	0.050	0.014	200	120
16-17	0825	0925	276	16	34	8	0.02	0.69	1.20	0.085	0.014	200	96
17-18	1025	0125	437	25	--	--	0.02	0.81	1.00	0.120	0.019	160	61
18-21	0225	0925	461	22	--	--	0.02	0.69	1.00	0.120	0.021	100	55
21-24	1050	0750	281	13	--	--	0.02	0.69	0.61	0.085	0.018	98	83
24-28	0825	0925	161	6.1	--	--	0.02	0.58	1.50	0.060	0.016	130	110
28-29	0915	2015	149	6.7	--	--	0.03	0.71	1.50	0.055	0.016	140	120
29-31	2115	0815	372	34	--	--	0.04	1.2	1.20	0.160	0.017	160	88
DEC 31-													
JAN 04	0900	0800	449	25	--	--	0.02	0.78	1.00	0.120	0.019	100	70
04-05	1040	2140	407	30	--	--	0.02	0.79	1.10	0.130	0.019	130	79
05-07	2240	0940	437	34	--	--	0.02	0.76	0.98	0.130	0.019	88	68
07-11	1020	0920	224	8.5	--	--	0.01	0.68	1.30	0.055	0.017	120	93
11-13	1035	0135	170	6.5	--	--	<0.01	0.51	1.50	0.045	0.013	160	120
13-15	0235	0935	334	19	--	--	0.01	0.61	1.30	0.080	0.013	250	93
15-19	1000	0900	229	8.5	--	--	0.01	0.55	1.30	0.050	0.013	170	95
19-21	1035	0935	171	6.2	--	--	0.01	0.71	1.40	0.050	0.011	160	110
21-24	1025	0525	326	18	--	--	0.02	0.60	1.30	0.075	0.012	170	81
24-25	0625	0925	439	24	--	--	--	0.59	1.10	0.085	0.013	130	62
25-28	1050	0920	314	18	--	--	0.02	0.80	1.20	0.070	0.012	130	74
JAN 28-													
FEB 01	1030	0930	165	5.8	--	--	0.02	0.64	1.30	0.045	0.011	160	110
01-04	1100	1000	162	6.8	10	<7	0.02	0.66	1.50	0.045	0.009	230	120
04-07	1100	0200	156	5.6	--	--	0.02	0.60	1.40	0.045	0.009	220	120
08-12	1055	0855	142	4.1	--	--	0.01	0.61	1.40	0.045	0.008	180	130
12-16	0915	0815	130	4.5	--	--	<0.01	0.59	1.40	0.040	0.005	210	140
16-18	1040	0940	139	2.9	--	--	<0.01	0.45	1.40	0.035	0.006	270	140
18-22	1025	0925	123	6.0	--	--	0.03	0.78	1.50	0.070	0.009	230	150
22-25	1035	0935	130	4.2	--	--	0.04	0.55	1.40	0.045	0.008	210	150
FEB 25-													
MAR 01	1020	0920	127	4.0	--	--	0.05	0.61	1.40	0.040	0.011	200	150
01-04	1020	0920	144	3.7	--	--	0.03	0.47	1.40	0.040	0.010	190	140
04-08	1020	0920	158	4.4	--	--	0.04	0.64	1.40	0.035	0.009	380	100
08-11	1030	0930	212	4.6	--	--	0.03	0.66	1.30	0.035	0.010	360	110
11-15	1035	0935	147	4.2	--	--	0.03	0.68	1.30	0.035	0.010	310	110
15-18	0945	0845	193	3.8	--	--	0.04	0.58	1.30	0.035	0.009	270	130
18-22	1015	0915	234	3.7	--	--	0.04	0.62	1.20	0.040	0.011	240	100
22-25	0950	0850	325	16	22	4	0.04	0.60	1.20	0.055	0.011	230	84
25-29	0950	0850	668	32	77	7	0.04	0.77	1.20	0.120	0.016	130	50
29-31	1005	0405	1260	35	--	--	0.05	0.76	1.00	0.170	0.021	72	37
29-31	1005	0605	1250	34	N90	N8	0.05	0.76	1.00	0.160	0.021	73	37

0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
MAR 31-													
APR 01	0705	0905	1360	45	N71	N7	0.03	0.66	1.00	0.120	0.020	57	34
01-03	1030	0130	1760	50	--	--	0.03	0.68	0.97	0.120	0.023	55	31
03-05	0230	0830	1150	31	--	--	0.02	0.55	1.10	0.085	0.022	56	37
06-06	1015	1045	496	17	--	--	0.02	0.65	1.30	0.075	0.014	74	59
06-08	1045	0945	442	18	--	--	0.02	0.56	1.20	0.080	0.014	73	59
08-09	1010	2110	288	26	--	--	0.03	0.71	1.10	0.120	0.010	84	73
09-11	2210	0110	291	38	74	13	0.04	0.91	1.00	0.170	0.011	87	75
11-12	0210	0910	384	37	64	<31	0.04	0.89	0.94	0.130	0.011	84	67
12-15	0950	0850	253	24	--	--	0.03	0.72	<0.01	0.110	0.011	90	76
15-16	1030	1330	284	30	57	<11	0.02	0.75	1.00	0.120	0.010	95	86
16-18	1430	0130	389	34	63	11	0.03	0.86	0.99	0.130	0.010	96	83
18-19	0230	0930	393	32	45	<11	0.02	0.72	0.76	0.095	0.011	80	68
19-22	1000	0900	250	24	--	--	0.03	0.78	0.94	0.100	0.010	98	82
22-23	1015	1315	464	16	--	--	0.02	<0.10	0.98	0.070	0.010	94	81
23-26	1415	0915	418	24	--	--	0.02	0.71	0.85	0.095	0.010	80	65
26-29	1020	0920	235	14	--	--	0.01	0.66	0.89	0.060	0.010	94	84
APR 29-													
MAY 03	0955	0855	149	11	--	--	0.02	0.73	0.85	0.065	0.010	100	-
03-05	1000	0600	118	12	--	--	0.02	0.68	0.78	0.065	0.010	100	110
05-06	0700	0900	153	14	--	--	0.03	0.76	0.76	0.070	0.009	100	110
06-10	0955	0855	126	16	--	--	0.02	<0.10	0.66	0.080	0.011	100	110
10-13	1015	0915	103	13	--	--	0.02	0.77	0.59	0.085	0.009	110	-
13-17	1000	0900	87	14	--	--	0.02	0.74	0.60	0.090	0.010	110	-
17-20	0955	0855	85	12	--	--	<0.01	<0.10	0.73	0.080	0.010	110	140
20-24	0935	0835	90	8.6	--	--	<0.01	0.65	0.82	0.075	0.012	110	-
24-28	0925	0825	68	N12	--	--	--	--	0.86	0.085	0.013	110	150
28-31	0915	0415	64	12	--	--	<0.01	<0.10	0.86	0.110	0.013	120	160
MAY 31-													
JUN 01	0515	0815	89	14	--	--	<0.01	<0.10	0.80	0.110	0.012	120	160
01-03	1050	0850	67	13	--	--	<0.01	N0.77	0.87	0.100	0.016	110	150
03-05	0945	0445	72	14	--	--	<0.01	0.85	0.90	0.100	0.016	120	160
05-06	0545	0045	275	N28	63	<10	--	1.1	0.87	0.160	0.017	99	140
06-07	0145	0845	174	N32	68	<12	--	0.91	0.82	0.145	0.020	89	100
07-08	1015	1815	103	19	--	--	<0.01	0.90	0.87	0.110	0.026	110	120
08-09	1915	0915	137	22	--	--	<0.01	0.90	0.81	0.110	0.026	110	120
09-10	1015	0915	138	20	--	--	<0.01	0.78	0.81	0.120	0.027	110	120
10-11	1055	0555	113	20	--	--	0.07	0.80	0.80	0.140	0.030	100	110
11-14	0655	0955	83	17	--	--	0.07	0.85	0.78	0.120	0.032	110	130
14-17	1015	0915	78	26	--	--	0.05	0.88	0.74	0.130	0.029	120	160
17-19	0950	0050	70	14	--	--	0.04	0.86	0.67	0.120	0.024	120	170
19-20	0150	1250	105	14	--	--	0.06	0.83	0.71	0.130	0.031	120	170
20-21	1350	0850	141	16	--	--	0.07	0.86	0.81	0.140	0.040	110	150
21-24	0945	0845	100	14	--	--	0.07	0.73	0.76	0.110	0.042	100	140
24-27	0955	1655	70	11	--	--	0.04	0.68	0.74	0.100	0.033	110	160
27-28	1755	0855	73	13	--	--	0.02	0.69	0.68	0.120	0.026	120	170
JUN 28-													
JUL 02	0935	0835	92	12	--	--	0.05	0.67	<0.05	0.120	0.030	110	160
02-06	0840	0740	69	10	--	--	0.05	0.72	0.82	0.100	0.031	120	170
06-08	0945	0845	58	9.7	--	--	0.04	0.77	0.64	0.110	0.028	120	190
12-15	0950	0850	57	12	--	--	0.02	0.89	0.56	0.140	0.030	120	200
15-19	1000	0900	62	8.8	--	--	0.03	0.82	0.63	0.120	0.029	120	200
19-22	1310	0910	96	15	--	--	0.07	0.86	N0.79	0.110	0.034	92	N140
20...	1021	--	--	--	--	--	--	0.73	--	0.120	--	--	-
20...	1022	--	--	--	--	--	--	0.86	--	0.120	--	--	-
20...	1023	--	--	--	--	--	--	0.90	--	0.130	--	--	-
20...	1024	--	--	--	--	--	--	0.85	--	0.110	--	--	-
20...	1025	--	--	--	--	--	--	0.88	--	0.120	--	--	-
20...	1026	--	--	--	--	--	--	0.92	--	0.120	--	--	-
20...	1027	--	--	--	--	--	--	0.93	--	0.120	--	--	-
20...	1028	--	--	--	--	--	--	0.80	--	0.120	--	--	-
20...	1029	--	--	--	--	--	--	0.78	--	0.120	--	--	-
22-26	0955	0855	64	9.3	--	--	0.02	0.57	0.68	0.100	0.023	120	>210
26-26	0955	2055	83	8.5	--	--	0.05	0.88	<0.01	0.110	0.024	120	200
26-29	2155	0855	58	8.0	--	--	0.05	N0.75	<0.01	0.095	0.037	110	190
29-31	1000	0100	51	10	--	--	0.05	N0.87	0.62	0.110	0.030	110	180

0423205025 Irondequoit Creek at Empire Boulevard, Rochester, N.Y.

2. WATER-QUALITY RECORDS

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
JUL 31-													
AUG 02	0200	0900	74	10	--	--	0.05	N0.74	0.68	0.110	0.031	110	190
02-05	0945	0845	57	7.2	--	--	0.03	<0.10	0.62	0.110	0.027	--	-
05-09	1250	0950	70	9.5	--	--	0.03	0.56	N0.72	0.100	0.023	110	180
09-11	1045	1845	53	11	--	--	0.04	0.60	N0.61	0.085	0.022	120	190
12-12	0020	0820	77	10	--	--	0.02	0.59	N0.67	0.090	0.023	110	180
12-16	1005	0905	53	9.4	--	--	0.02	0.75	0.60	0.095	0.018	110	180
16-17	0940	0240	51	10	--	--	0.03	0.91	0.59	0.085	0.021	120	200
17-17	0340	2340	77	12	--	--	0.04	0.51	0.66	0.110	0.022	110	200
19-20	1015	0515	63	10	--	--	0.06	0.81	0.66	0.100	0.026	110	180
20-21	0615	0915	78	10	--	--	0.04	N0.82	0.72	0.090	0.026	110	170
21-23	1015	0915	65	16	--	--	0.05	N0.73	0.77	0.110	0.026	90	150
23-26	1005	0905	44	10	--	--	0.02	N0.83	--	0.085	0.027	120	190
26-30	0940	0840	43	9.1	--	--	0.03	N0.78	--	0.095	0.024	130	200
30-31	0945	1445	43	10	--	--	0.02	0.75	--	0.090	0.024	120	200
31-31	1545	2345	60	10	--	--	0.03	0.73	--	0.095	0.026	120	210
SEP													
01-02	0045	0845	71	16	--	--	0.05	0.82	--	0.110	N0.029	94	170
02-04	2015	0615	150	24	54	10	0.05	0.76	0.86	0.140	0.030	74	130
04-07	0715	0915	106	26	50	28	0.06	0.78	0.76	0.060	0.034	85	120
07-09	1000	0900	81	24	--	--	0.08	0.91	0.77	0.140	0.037	160	>120
09-10	1025	1725	100	18	--	--	0.06	0.79	N0.83	0.120	0.032	110	160
10-13	1825	0925	84	18	--	--	0.05	0.79	0.78	0.100	0.028	94	140
13-16	0955	0855	41	16	--	--	0.06	0.79	0.80	0.100	0.025	110	180
16-20	1000	0900	50	12	--	--	0.04	0.70	0.89	0.080	0.024	120	180
20-23	0950	0850	45	8.2	--	--	0.03	0.62	0.88	0.070	0.020	120	>160
23-24	0930	0030	85	12	--	--	0.05	0.57	0.89	0.085	N0.019	100	>160
24-26	0130	0430	64	10	--	--	0.03	0.61	0.86	0.075	0.023	98	160
26-26	0530	1630	224	32	76	15	0.04	0.80	0.68	0.160	0.023	85	120
26-27	1730	0830	140	34	65	12	0.04	0.60	0.60	0.160	0.022	67	-
27-28	0930	1130	99	26	--	--	0.06	0.80	0.74	0.110	0.024	86	130
28-30	1230	0830	82	13	--	--	0.05	0.66	0.73	0.080	0.024	96	130
30-30	0950	2300	74	6.5	--	--	0.04	0.71	0.88	0.060	0.020	120	180
SEP 30-													
OCT 04	0950	0850	61	6.5	--	--	0.04	0.71	0.88	0.060	0.020	120	180

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

LOCATION.--Lat 43˚15′10", long 77˚36′35", Monroe County, Hydrologic Unit 04130003, at Charlotte, in Rochester, on west bank of the Genesee River, 1300 ft downstream of Stutson Street Bridge, 0.5 mi. upstream of mouth, and 5.0 mi. downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,467 mi^2 at station 04232000.

PERIOD OF RECORD.--Water years 1990 to current year.

CHEMICAL DATA: 1990-93 (e).

NUTRIENT DATA: 1990-93 (e).

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
02-03	1010	0910	1220	7.5	--	--	0.13	0.54	0.82	0.085	0.006	120	87
03-04	1010	0910	980	12	--	--	0.09	0.34	0.78	0.070	0.005	130	97
04-06	0930	0830	660	15	--	--	0.14	0.52	0.73	0.065	0.003	140	91
06-10	0950	0850	760	4.9	--	--	0.30	0.64	0.73	0.065	0.013	77	78
10-13	1015	0915	720	1.9	--	--	0.18	0.54	0.78	0.075	0.011	150	97
13-14	1000	1500	580	3.3	--	--	0.34	0.78	0.77	0.085	0.008	100	78
14-16	1600	0900	730	5.4	--	--	0.37	0.95	0.80	0.085	0.011	72	72
16-17	0930	0030	900	12	--	--	0.23	0.79	0.77	0.085	0.017	67	64
17-17	0030	1630	800	13	--	--	0.21	0.71	0.76	0.100	0.018	96	75
17-18	1730	0730	840	15	--	--	0.14	0.68	0.72	0.100	0.019	98	87
18-19	0810	0710	960	11	--	--	0.15	0.66	0.74	0.090	0.017	110	98
19-20	0810	0710	1140	10	--	--	0.23	0.68	0.72	0.080	0.017	120	96
20-21	0930	0830	1800	7.8	--	--	0.34	0.77	0.71	0.070	0.021	100	86
21-22	0930	0830	3000	11	--	--	0.22	0.59	0.66	0.070	0.022	100	94
22-23	0930	0830	3340	32	40	<10	0.12	0.65	0.96	0.095	0.021	96	66
23-24	0930	0830	2480	60	97	8	0.12	0.74	0.80	0.160	0.019	57	57
24-25	0930	0830	1840	55	71	6	0.14	0.77	0.73	0.120	0.016	60	56
25-26	0940	0840	1530	40	46	6	0.15	0.66	0.73	0.090	0.016	62	64
26-27	0940	0740	1240	24	--	--	0.21	0.71	0.71	0.080	0.015	60	67
27-28	0800	1900	1180	15	--	--	0.27	0.68	0.70	0.095	0.016	71	74
28-30	2000	0700	1130	13	--	--	0.28	0.64	0.74	0.070	0.016	100	85
OCT 30-													
NOV 01	0745	0645	1110	13	--	--	--	0.64	0.72	0.080	0.018	120	95
01-03	0740	0640	1280	12	--	--	0.27	0.77	0.76	0.075	0.022	120	87
03-06	0735	0635	1320	5.4	--	--	0.24	0.85	0.68	0.050	0.018	110	82
06-07	0735	1635	1380	5.0	--	--	0.18	0.43	0.62	0.055	0.019	110	79
07-08	1735	0635	1440	7.3	--	--	0.14	0.49	0.66	0.080	0.020	140	72
08-08	0740	2040	1420	7.8	--	--	0.17	0.72	0.66	0.065	0.024	120	71
08-09	2140	0840	1400	7.9	--	--	0.17	0.56	0.65	0.055	0.017	110	73
09-10	0915	1615	1410	2.4	--	--	0.20	0.86	0.64	0.035	0.016	96	73
10-12	1715	0015	2230	5.7	--	--	0.22	0.74	0.62	0.040	0.016	110	80
12-13	0115	0715	2040	10	--	--	0.10	0.65	0.63	0.045	0.014	83	58
13-14	0740	2240	1950	13	--	--	0.11	0.55	0.67	0.055	0.015	130	62
14-15	2340	0640	2040	14	--	--	0.14	0.69	0.67	0.055	0.015	120	65
15-16	0740	0640	1960	13	--	--	0.05	0.50	0.79	0.055	0.002	85	73
16-17	0740	0640	2150	17	--	--	0.16	0.57	0.74	0.070	0.003	73	67
17-18	0740	0640	2880	16	--	--	0.09	0.57	0.73	0.075	0.027	64	66
18-19	0740	0640	3400	14	--	--	0.08	0.77	0.67	0.065	0.017	66	61
20...	0740	--	2750	64	82	7	0.09	0.71	0.56	0.115	0.016	47	50
20-21	0740	0640	2600	32	64	7	0.03	0.57	0.67	0.100	0.017	50	51
21-22	0740	0640	2600	24	--	--	0.08	0.66	0.70	0.070	0.018	50	61
22-24	0730	1830	2510	8.8	--	--	0.01	0.41	--	0.035	0.013	59	63
24-27	1930	0630	1870	12	--	--	0.09	0.57	0.94	0.060	0.016	57	68
27-28	0745	0645	2070	11	--	--	0.08	0.65	0.99	0.060	0.016	73	73
28-29	0745	0645	2060	11	--	--	0.13	0.71	1.00	0.055	0.018	87	76
NOV 29-													
DEC 01	0720	0620	1990	14	--	--	0.13	0.38	1.10	0.060	0.020	77	72

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
DEC													
01-04	0745	0645	1410	7.0	--	--	0.14	0.71	1.10	0.060	0.024	68	78
04-06	0730	0630	1200	14	--	--	0.19	0.67	1.40	0.060	0.026	73	85
06-08	0735	0635	1420	9.1	--	--	0.31	0.79	1.30	0.060	0.021	93	48
08-09	0740	1840	1400	7.6	--	--	0.27	0.76	1.20	0.050	0.014	100	76
09-11	1940	0640	1130	12	--	--	0.26	0.68	1.10	0.045	0.013	78	70
11-13	--	--	1100	13	198	--	0.31	0.75	1.10	0.045	0.010	79	71
11-13	0930	0830	1100	13	--	--	0.31	0.80	1.10	0.045	0.010	79	71
13-15	1100	0900	1070	8.9	--	--	0.42	--	1.10	0.055	0.016	93	91
15-16	0940	2040	1040	4.7	--	--	0.46	1.1	1.30	0.050	0.017	120	90
16-18	2040	0840	1050	4.4	--	--	0.42	0.94	1.30	0.055	0.014	97	91
18-20	1000	0900	1030	--	--	--	0.43	0.81	1.60	0.060	0.015	100	95
20-22	1620	0920	990	--	--	--	0.40	0.96	1.40	0.065	0.013	120	110
22-24	0945	0845	950	2.5	--	--	0.34	0.89	1.10	0.050	0.016	110	87
24-26	0945	0845	940	2.7	--	--	0.34	0.89	1.00	0.045	0.014	85	79
26-29	1000	0900	970	3.4	--	--	0.46	0.90	1.50	0.050	0.017	120	110
29-31	0950	0850	1050	2.9	--	--	0.40	0.94	1.40	0.040	0.019	140	100
DEC 31-													
JAN 02	0950	0850	1260	2.9	--	--	0.47	1.0	1.50	0.060	0.028	230	120
02-03	0735	0635	1480	2.8	--	--	0.49	1.0	1.50	0.065	0.025	260	120
03-04	0735	0635	1420	2.6	--	--	0.48	1.1	1.60	0.055	0.016	220	120
04-05	0745	0645	1760	5.4	--	--	0.36	0.93	1.50	0.070	0.022	200	110
05-06	0945	0845	2680	6.1	--	--	0.33	1.0	1.60	0.075	0.023	140	81
06-07	0945	0845	3270	16	--	--	0.24	1.0	1.60	0.100	0.026	100	66
07-08	0945	0645	3310	120	143	13	0.20	1.1	1.70	0.170	0.020	72	58
08-08	0735	2235	3200	120	179	18	0.22	0.97	1.50	0.170	0.013	170	56
08-09	2335	1435	2920	90	99	10	0.20	1.1	1.50	0.120	0.017	170	56
09-10	1535	0635	2700	70	76	9	0.22	1.1	1.60	0.120	0.018	180	55
10-10	0740	2240	2770	33	31	<5	0.18	0.86	1.50	0.070	0.019	72	62
10-11	2340	1440	2540	30	35	<5	0.17	0.83	1.40	0.065	0.016	70	63
11-12	1540	0640	2390	26	--	--	0.22	0.77	1.40	0.080	0.018	72	67
12-14	0740	0640	2020	14	--	--	0.28	0.68	1.60	0.060	0.020	77	-
14-16	0740	0640	1760	8.4	--	--	0.55	1.7	2.00	0.050	0.019	83	78
16-18	0740	1340	2590	16	--	--	0.28	0.98	1.60	0.080	0.017	90	77
22-23	1940	0125	4880	170	200	16	0.13	0.83	1.30	0.290	0.013	44	46
23-23	0140	0725	4590	180	203	16	0.14	0.83	1.20	0.330	0.012	240	48
23-24	0730	0630	4910	50	121	11	0.15	0.56	1.20	0.200	0.011	45	43
24-25	0730	0630	5400	40	101	10	0.13	0.52	1.20	0.110	0.013	47	44
25-26	0730	0630	5710	60	90	19	0.14	0.53	1.40	0.090	0.011	52	45
26-27	0725	0625	5910	60	--	--	0.16	0.85	1.50	0.140	0.016	50	76
27-28	0725	0625	5820	60	91	9	0.15	0.80	1.70	0.140	0.015	48	45
28-29	0725	0625	5290	70	85	8	0.10	0.67	1.50	0.110	0.014	44	44
29-29	0735	2235	4960	95	138	11	0.11	0.77	1.40	0.130	0.012	45	42
29-30	2335	1435	4820	70	136	11	0.12	0.60	1.30	0.120	0.012	47	41
30-31	1535	0635	4560	55	96	7	0.14	0.56	1.30	0.100	0.019	48	41
JAN 31-													
FEB 01	0900	0700	4370	35	50	5	0.13	0.47	1.30	0.070	0.005	47	44
01-01	0100	1600	4290	26	--	--	0.13	0.28	1.40	0.060	0.011	50	47
01-02	1700	0800	4120	24	--	--	0.12	0.39	1.40	0.060	0.012	54	47
02-03	0800	0700	5080	33	66	<10	0.17	0.60	1.40	0.120	0.013	68	55
03-04	0800	0700	6590	90	161	13	0.15	1.0	1.70	0.180	0.016	74	47
04-05	0800	0700	6620	120	197	15	0.11	0.67	1.60	0.210	0.013	57	44
05-06	0920	0020	6490	160	156	11	0.07	0.93	1.40	0.240	0.013	55	41
06-06	0120	1620	6690	120	161	14	0.07	0.59	1.50	0.230	0.014	54	42
06-07	1720	0820	6460	88	141	12	0.05	0.57	1.50	0.170	0.012	57	43
07-07	0745	2245	6220	32	96	9	0.10	0.75	1.60	0.090	0.014	60	48
07-08	2345	1445	6220	38	116	10	0.10	0.55	1.50	0.110	0.013	61	46
08-09	1545	0645	7130	38	121	11	0.10	0.62	1.50	0.120	0.016	60	45
09-11	1000	0900	9400	100	366	31	0.11	1.6	1.90	0.360	0.024	53	48
16...	1015	--	8040	75	102	10	0.10	0.80	1.40	0.120	0.022	100	42
21...	1000	--	5300	140	198	16	0.14	0.83	1.60	0.200	0.018	44	42
23...	0900	--	10900	170	331	26	0.07	0.96	1.40	0.160	0.016	43	34
26...	0930	--	9450	120	160	13	0.07	0.62	1.50	0.150	0.013	36	31
28...	0740	--	8350	5.5	--	--	0.11	0.70	1.60	0.210	0.022	37	36

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
Feb-continued													
28-28	0740	1840	8350	110	186	12	0.04	0.71	1.70	0.200	0.006	39	40
MAR													
04-04	1045	1315	5770	50	--	--	0.08	0.52	1.70	0.140	0.006	54	48
07-09	0950	0650	1930	27	--	--	0.14	0.58	2.10	0.055	0.013	55	74
09-10	0740	1840	2440	8.0	--	--	0.20	0.71	2.20	0.045	0.014	93	86
10-12	1940	0640	3930	18	--	--	0.15	0.54	2.10	0.045	0.014	87	75
12-13	0725	0625	6280	39	83	7	0.11	0.66	2.00	0.090	0.019	65	64
13-14	0725	0625	6700	85	164	13	0.09	0.76	1.80	0.180	0.016	51	56
14-15	0725	0625	5810	95	158	10	0.07	0.71	1.60	0.150	0.017	46	50
15-16	0725	0625	4500	60	101	7	0.07	0.95	1.50	0.110	0.013	46	53
16-17	0705	1805	3650	29	--	--	0.09	0.51	1.40	0.080	0.023	51	58
18-19	1905	0605	6030	38	67	6	0.08	0.49	1.50	0.085	0.015	62	65
19-20	0945	0845	5740	280	441	26	0.05	1.2	1.10	0.280	0.012	51	50
20-21	0945	0645	5280	210	286	18	0.06	0.87	1.10	0.220	0.020	51	50
21-22	0725	0625	4900	58	97	7	0.07	0.73	1.20	0.110	0.011	52	52
22-23	0725	0625	4260	34	60	<5	0.07	0.57	1.40	0.085	0.010	52	52
23-24	0740	1840	3740	17	--	--	0.07	0.52	1.40	0.040	0.012	52	54
24-26	1940	0640	3140	19	--	--	0.08	0.48	1.50	0.050	0.010	58	64
26-28	0735	0635	2530	16	--	--	0.08	0.47	1.50	0.050	0.011	63	68
28-30	0735	0635	2020	13	--	--	0.11	0.48	1.50	0.040	0.011	68	71
MAR 30-													
APR 02	0835	0735	2340	10	--	--	0.12	0.54	1.70	0.050	0.011	78	82
02-03	0750	1250	3120	13	--	--	0.06	0.57	1.70	0.050	0.010	80	82
06...	1115	--	9290	130	260	19	0.06	0.80	1.30	0.250	0.016	56	49
07...	1035	--	9090	100	205	14	0.05	0.88	1.30	0.150	0.014	49	47
07-08	1045	0645	8210	75	140	11	0.03	1.1	1.40	0.140	0.011	49	48
08-09	0745	0745	7000	60	102	8	0.03	0.61	1.30	0.095	0.010	50	49
09-10	0745	0645	6680	34	63	5	--	--	--	0.090	0.011	49	-
10-11	0745	0645	8970	38	88	8	--	--	--	0.100	0.011	52	-
11-13	1645	0645	11400	390	617	50	0.04	1.1	1.30	0.600	0.022	37	37
13-16	0730	0630	9440	180	272	20	0.05	1.0	1.20	0.320	0.014	38	44
16-18	0710	0610	8750	190	--	--	0.05	0.86	1.10	0.260	0.012	31	40
18-20	0750	0650	7590	100	167	12	0.05	0.74	1.30	0.160	0.011	33	42
20-23	0740	0640	6220	50	83	7	0.05	0.92	1.40	0.090	0.011	38	48
23-25	0730	0630	3690	40	74	6	0.07	0.56	1.30	0.075	0.006	46	52
25-27	0730	0630	2660	30	49	5	0.06	0.59	1.00	0.050	0.010	57	53
27-30	0735	0635	1630	18	--	--	0.09	0.66	1.20	0.060	0.011	66	63
APR 30-													
MAY 01	0730	0230	2220	19	--	--	0.10	0.74	1.30	0.065	0.013	70	67
02-02	0800	1700	1220	18	--	--	0.11	0.83	1.20	0.070	0.009	75	71
04...	0735	--	890	13	--	--	0.13	0.70	1.30	0.065	0.009	81	80
04-05	1520	0520	1420	20	--	--	0.12	0.95	1.10	0.070	0.006	73	67
06-07	0620	0320	6210	50	--	--	0.11	0.80	1.30	0.105	0.007	82	69
07-08	0645	0545	5390	140	205	14	0.07	0.97	0.93	0.200	0.008	43	41
07-08	0710	0610	5390	27	--	--	0.10	0.56	0.96	0.070	0.017	53	56
08-09	0645	0545	3990	50	79	6	0.07	0.67	0.88	0.140	0.007	45	46
08-09	0710	0610	3990	23	--	--	0.10	0.57	0.97	0.065	0.013	64	63
12-12	0735	2135	3300	19	--	--	0.11	0.57	0.87	0.055	0.011	47	65
12-14	2235	0635	4550	23	--	--	0.08	0.53	0.80	0.090	0.011	61	58
14-15	0735	0635	7120	50	97	9	0.08	0.69	1.00	0.120	0.016	57	52
15-16	0735	0635	7380	85	--	--	0.06	0.90	1.10	0.240	0.014	43	45
16-17	0730	0630	8420	65	109	11	0.04	1.1	0.95	0.105	0.023	42	42
17-18	0730	0630	10300	80	218	40	0.04	1.7	1.00	0.190	0.026	42	38
18-19	0655	0555	9840	120	272	24	0.06	0.96	1.40	0.300	0.038	56	38
19-20	0655	0555	8440	80	150	14	0.06	0.71	1.10	0.150	0.028	37	38
20-21	0655	0555	8640	65	124	9	0.06	0.72	1.10	0.150	0.023	40	38
21-22	0725	0625	9340	85	144	11	0.06	0.80	0.97	0.210	0.026	37	43
22-23	0725	0625	9060	75	136	10	0.06	1.1	1.00	0.150	0.022	35	36
23-24	0730	0630	8060	55	116	9	0.06	0.72	1.10	0.115	0.022	34	40
24-25	0730	0630	7160	50	138	8	0.05	0.77	1.10	--	--	35	36
25-27	0940	0440	6120	15	--	--	0.02	0.46	1.00	0.045	0.020	35	38
27-29	0540	0040	4990	16	--	--	0.04	0.30	1.00	0.040	0.017	35	40
29...	0735	--	4480	34	90	8	0.06	0.76	1.10	0.085	0.012	37	42

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
MAY-continued													
30...	1635	--	3510	20	--	--	0.08	0.36	1.10	0.060	0.015	42	46
MAY 30-													
JUN 01	1640	0740	4130	1.5	--	--	0.08	0.64	1.10	0.045	0.019	49	54
01-03	0800	1900	3110	29	--	--	0.07	0.56	1.20	0.075	0.013	42	46
03-04	2000	0700	2400	15	--	--	0.08	0.72	1.10	0.060	0.013	52	42
04-05	0735	0635	2270	20	--	--	0.06	0.66	1.10	0.070	0.017	56	58
05-06	0735	0635	2120	19	--	--	0.08	0.70	1.10	0.070	0.014	64	58
06-07	0700	0600	1980	5.1	--	--	0.09	0.77	1.10	0.040	0.014	70	77
06-08	0700	0600	1870	16	--	--	0.08	0.74	1.20	0.065	0.010	72	79
08-09	0715	1815	1600	2.7	--	--	0.08	0.57	1.20	0.030	0.010	95	82
08-11	1915	0615	1620	4.9	--	--	0.07	0.87	1.20	0.030	0.008	97	86
11-13	0735	0635	1440	7.0	--	--	0.04	0.63	1.10	0.050	0.005	87	93
13-15	0735	0835	1200	5.8	--	--	0.08	0.83	1.10	0.050	0.004	85	90
15-18	0745	0045	1060	2.1	--	--	0.08	0.67	1.20	0.040	0.007	90	89
18...	0800	--	910	4.6	--	--	0.08	0.70	0.95	0.045	0.003	82	79
18-19	0800	1000	920	5.5	--	--	0.14	0.85	0.91	0.060	0.017	85	88
20...	0800	--	1180	9.5	--	--	0.14	0.94	0.81	0.060	0.013	90	92
20-22	0800	0500	1180	15	--	--	0.17	1.0	1.00	0.080	0.014	99	97
22-23	0805	0105	1180	6.0	--	--	0.17	1.4	1.10	0.120	0.014	110	99
23-25	0205	0705	1170	10	--	--	0.17	0.92	1.10	0.075	0.014	110	92
26-28	--	--	1020	4.4	--	--	0.13	0.92	0.99	0.070	0.016	92	92
28-30	0945	0845	1000	4.4	--	--	0.27	1.1	1.20	0.095	0.015	130	100
JUN 30-													
JUL 02	0945	0745	960	15	--	--	0.34	1.1	1.20	0.090	0.016	110	96
02-03	0815	0845	920	9.3	--	--	0.25	1.3	1.40	0.080	0.014	97	91
03-04	0830	0730	830	24	--	--	0.25	1.0	0.94	0.090	0.013	100	99
04-05	0830	0330	760	22	--	--	0.19	0.93	0.92	0.090	0.008	97	100
05-07	0830	0730	720	16	--	--	0.24	1.2	0.95	0.070	0.009	120	100
07-09	0830	0730	680	22	--	--	0.35	1.3	0.80	0.080	0.006	110	90
09-10	0830	0730	740	17	--	--	0.16	0.99	0.75	0.100	0.008	110	98
10-11	0830	0730	850	24	--	--	0.22	1.6	0.77	0.080	0.009	120	93
11-12	0825	0725	870	20	--	--	0.25	1.2	0.77	0.085	0.013	110	92
12-13	0825	0725	780	18	--	--	0.23	1.4	0.74	0.090	0.013	110	88
13-14	0830	0730	1060	16	--	--	0.30	1.1	0.80	0.095	0.016	120	110
14-15	0830	0730	1350	18	--	--	0.29	1.2	0.96	0.095	0.008	130	110
15-16	0830	0730	1300	28	--	--	0.20	1.5	1.00	0.130	0.011	120	91
16-17	1045	0945	1220	16	--	--	0.11	0.87	0.77	0.090	0.006	110	83
17-18	1045	0845	1240	20	--	--	0.14	0.89	0.76	0.080	0.009	95	66
18-19	0915	0815	1120	26	--	--	0.22	0.85	0.75	0.090	0.010	63	80
19-20	0915	0815	880	26	--	--	0.22	0.94	0.86	0.110	0.009	70	92
20-21	0830	0730	860	22	--	--	0.22	0.86	1.10	0.100	0.012	79	72
21-22	0830	0730	910	19	--	--	0.22	0.93	0.96	0.110	0.012	77	64
22-23	0830	0730	920	22	--	--	0.26	1.2	0.94	0.100	0.014	100	68
23-24	0830	0730	1120	0.25	--	--	0.15	0.70	0.84	0.095	0.007	150	88
25-26	1015	0915	1400	28	--	--	0.07	0.93	0.89	0.130	0.010	120	84
26-27	1015	0915	1010	25	--	--	0.09	0.70	0.94	0.100	0.010	130	69
27-28	0940	0840	820	20	--	--	0.11	0.69	1.10	0.110	0.013	120	58
28-29	0940	0840	700	16	--	--	0.18	0.61	1.00	0.100	0.013	77	62
29-30	0940	0840	630	15	--	--	0.23	0.74	1.10	0.095	0.014	92	67
30-31	0830	0730	640	9.2	--	--	0.11	0.70	0.92	0.075	0.009	140	70
JUL 31-													
AUG 01	0830	0730	660	9.1	--	--	0.10	0.90	0.82	0.075	0.008	150	78
01-02	0830	0030	650	8.2	--	--	0.05	0.78	0.73	0.060	0.003	120	77
03...	0900	--	590	6.3	--	--	0.03	0.82	0.83	0.055	0.002	110	91
06...	0830	--	610	7.0	--	--	0.15	0.55	0.51	0.060	0.013	120	96
08...	0900	--	710	5.4	--	--	--	0.57	0.55	0.065	0.018	110	100
08-08	1100	1600	710	5.0	--	--	0.04	0.81	0.56	0.065	0.007	110	83
08-09	1620	0720	680	5.4	--	--	0.04	0.72	0.64	0.080	0.014	110	110
09-10	0805	0705	600	5.1	--	--	0.05	0.75	0.60	0.060	0.005	100	110
10-11	1050	0950	530	5.6	--	--	0.07	1.0	0.80	0.070	0.002	110	86
11-12	1050	0950	520	5.4	--	--	0.17	1.1	0.95	0.065	0.002	110	110

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued													
AUG-continued													
12-13	1050	0950	530	3.8	--	--	0.26	1.0	0.84	0.055	0.002	110	110
13-14	0930	0830	550	13	--	--	--	1.6	0.66	0.080	0.007	110	110
14-15	0930	0030	560	8.8	--	--	--	1.3	0.62	0.070	0.019	99	100
15...	0830	--	550	5.1	--	--	--	0.85	0.43	0.070	0.018	91	120
17-18	0930	0830	520	4.6	--	--	--	0.70	0.98	0.065	0.008	88	120
18-19	0930	0830	500	8.0	--	--	--	0.80	0.87	0.075	0.004	83	120
19-20	0930	0830	480	8.5	--	--	--	0.77	0.84	0.070	0.014	88	120
20-21	1110	1010	510	7.8	--	--	--	0.87	0.87	0.085	0.024	90	120
21-22	1110	1010	510	7.0	--	--	--	0.92	0.86	0.075	0.025	86	120
22-24	1050	0750	510	7.7	--	--	--	0.92	1.00	0.065	0.022	87	120
24-27	0950	0850	500	4.6	--	--	--	0.71	1.00	0.045	0.003	90	110
27-29	0805	0705	510	3.6	--	--	--	0.66	0.86	0.045	0.004	86	92
29-31	0825	0725	550	4.5	--	--	--	0.89	1.00	0.050	0.007	94	100
AUG 31-													
SEP 04	0805	0535	510	4.2	--	--	--	0.93	1.10	0.045	0.012	92	100
04-05	1100	1000	460	5.9	--	--	0.09	0.78	0.83	0.055	0.003	95	100
05-06	1100	1000	510	6.8	--	--	0.15	0.82	0.87	0.055	0.009	97	100
06-07	1100	0900	680	6.7	--	--	0.17	0.82	0.87	0.055	0.012	99	94
07-08	0930	0830	760	5.6	--	--	0.17	0.77	1.10	0.070	0.022	92	83
08-09	0930	0830	700	5.3	--	--	0.18	0.76	0.82	0.060	0.022	88	74
09-10	0930	0830	860	5.1	--	--	0.30	0.73	0.96	0.060	0.024	95	80
10-11	1030	0930	1580	4.7	--	--	0.17	0.82	0.82	0.065	0.015	110	100
11-12	1030	0930	1680	9.4	--	--	0.13	0.75	0.81	0.085	0.029	130	88
12-13	0915	0815	1090	11	--	--	0.13	0.63	0.87	0.055	0.021	170	76
13-14	0915	0815	860	12	--	--	0.20	0.65	0.90	0.065	0.021	170	56
14-15	0915	2015	720	14	--	--	0.19	0.76	0.79	0.065	0.021	100	46
15-17	2115	0815	1010	12	--	--	0.16	0.72	0.73	0.065	0.027	110	48
17-19	1025	0725	1570	13	--	--	0.10	0.70	0.78	0.075	0.025	150	77
19-21	0750	0650	1130	12	--	--	0.10	0.83	0.61	0.060	0.020	110	56
SEP 28-													
OCT 01	0940	0840	920	8.6	--	--	0.18	0.52	0.88	0.060	0.022	130	38
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
01-02	1030	0530	1540	14	--	--	0.14	0.14	0.69	0.055	0.019	110	53
02-03	1430	0930	1580	14	--	--	0.15	0.15	0.70	0.060	0.018	130	60
03-04	0940	0840	1380	10	--	--	0.12	0.57	0.63	0.050	0.017	100	62
04-05	0940	0840	1160	15	--	--	0.11	0.58	0.71	0.065	0.019	96	49
05-07	0940	0840	1350	8.8	--	--	0.14	0.50	0.76	0.065	0.019	130	37
07-09	0940	0840	1580	10	--	--	0.08	0.40	0.63	0.065	0.022	150	40
09-10	1040	0940	1600	17	--	--	--	0.65	0.72	0.090	0.023	83	50
10-11	1030	0930	2340	12	--	--	0.11	0.58	0.79	0.075	0.038	82	60
11-12	1030	0930	3140	16	--	--	0.10	0.60	0.56	0.075	0.031	110	50
12-13	0935	0835	4310	55	66	<7	0.09	0.79	0.63	0.120	0.020	120	57
13-14	0935	0835	5990	220	322	26	0.06	1.3	0.94	0.310	0.019	120	42
14-15	0935	0835	6480	250	368	27	0.05	1.4	0.96	0.360	0.019	80	37
15-16	1035	0935	6220	320	391	27	0.04	1.3	0.85	0.450	0.018	68	35
16-17	1035	0935	6240	240	126	21	0.06	1.2	0.71	0.330	0.029	67	30
17-18	0950	0850	6520	230	244	12	0.05	1.1	0.65	0.300	0.025	60	24
18-19	0950	0850	6640	190	250	20	0.04	1.1	0.64	0.280	0.018	54	21
19-20	0950	0950	6780	120	200	15	0.04	0.87	0.74	0.210	0.018	40	24
22...	0950	--	4910	85	113	8	0.05	0.62	0.98	0.130	0.019	39	30
23...	0745	--	4730	120	146	11	0.05	0.79	0.80	0.210	0.019	41	28
23-24	1630	0830	4840	70	90	<10	0.05	0.82	--	0.150	0.022	41	32
24-25	0940	0840	4640	45	68	6	0.06	0.59	0.87	0.100	0.022	44	38
25-26	0940	0840	3700	55	80	6	0.06	0.69	1.10	0.110	0.024	48	50
26-27	0945	0845	4000	36	57	<5	0.04	0.62	1.10	0.090	0.023	53	50
27-28	0945	0845	5200	65	94	<10	0.03	0.54	0.95	0.110	0.018	58	40
28-29	0945	0845	5320	65	101	6	0.02	0.51	0.76	0.120	0.014	45	37
29-30	0950	0850	4840	36	61	<5	0.04	0.39	0.80	0.070	0.016	44	35
30-31	0950	0850	4280	28	--	--	0.03	0.50	0.94	0.065	0.014	45	37

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
OCT 31-													
NOV 02	0910	0810	3060	22	--	--	0.04	0.48	0.98	0.055	0.043	46	42
02-05	0910	0810	1970	31	50	<5	0.09	0.70	0.98	0.060	0.023	68	62
05-07	1000	0700	2040	21	--	--	0.05	0.62	1.00	0.070	0.021	81	64
07-09	0810	0710	2750	18	--	--	0.13	0.59	0.98	0.060	0.019	86	71
09-10	1000	1700	3000	26	--	--	0.08	0.70	0.88	0.085	0.020	80	48
10-12	1800	0100	3830	24	--	--	0.09	0.53	0.79	0.080	0.015	60	52
12-13	0200	0900	4650	65	105	11	0.06	0.68	0.92	0.130	0.013	42	46
13-16	1035	0835	3240	35	--	--	0.06	0.77	0.94	0.065	0.012	45	40
16-19	0915	0215	3040	17	--	--	0.08	0.59	1.10	0.055	0.012	63	44
19...	1020	--	2790	18	--	--	0.09	0.55	1.00	0.045	0.015	56	42
20-21	0925	0825	2520	20	--	--	0.11	0.68	0.88	0.060	0.012	55	39
21-24	1015	0715	2630	7.6	--	--	0.08	0.45	0.89	0.030	0.014	68	43
24-25	0815	0815	3080	14	--	--	0.06	0.46	0.92	0.045	0.013	68	44
25-26	0915	0915	2860	23	--	--	0.05	0.61	1.00	0.055	0.012	55	36
26-27	1000	0900	2680	27	--	--	0.07	0.47	0.86	0.065	0.012	54	30
27-28	1000	0900	2500	15	--	--	0.09	0.57	0.86	0.050	0.013	60	31
28-29	0930	0830	2440	13	--	--	0.11	0.50	0.89	0.045	0.014	66	36
29-30	0930	0830	2170	14	--	--	0.11	0.48	0.89	0.045	0.013	67	37
NOV 30-													
DEC 03	1045	0945	1620	12	--	--	0.13	0.60	1.10	0.045	0.012	77	50
03-04	1035	0935	1920	7.1	--	--	0.15	0.80	1.50	0.055	0.014	98	60
04-06	0920	0820	4400	65	102	8	0.07	1.4	1.30	0.130	0.021	80	48
04-07	0920	0820	4450	140	198	15	0.06	0.91	1.00	0.190	0.013	45	39
04-05	1035	0835	3880	8.7	--	--	0.16	0.80	0.94	0.050	0.012	120	62
07-10	1030	0930	3270	33	49	5	0.07	0.71	1.00	0.190	0.013	52	44
10-12	1000	1100	2470	14	--	--	0.11	0.99	1.20	0.055	0.013	70	57
12-13	1100	2000	2290	9.2	--	--	0.14	0.70	1.60	0.040	0.014	69	57
17...	1010	--	3040	10	--	--	0.12	0.55	1.20	0.030	0.009	72	57
18...	0915	--	3350	13	--	--	0.12	0.54	1.10	0.045	0.013	70	47
19...	0730	--	4370	13	--	--	0.12	0.54	1.10	0.045	0.013	55	45
20...	0800	--	5660	34	60	<5	0.11	0.65	1.40	0.095	0.019	63	38
20-21	0815	0915	5510	95	171	10	0.09	0.68	1.10	0.150	0.016	44	33
21...	0930	--	5360	160	228	15	0.10	0.81	0.92	0.180	0.014	37	28
21-23	1600	0900	5300	80	--	--	0.08	0.82	0.93	0.120	0.020	44	31
23-24	0100	0900	6100	32	--	--	0.07	0.48	1.10	0.075	0.016	45	31
24-26	0900	1200	6720	110	166	12	0.03	0.73	1.10	0.140	0.017	29	35
24-25	0905	0805	6960	90	169	12	0.05	0.85	1.30	0.160	0.021	48	33
24-26	0905	0805	6720	170	290	19	0.03	1.1	1.10	0.420	0.017	97	28
26-28	1300	0800	5350	75	114	10	0.04	0.75	1.10	0.120	0.019	35	35
29-30	0935	0835	5890	24	--	--	0.08	0.65	1.30	0.070	0.018	58	42
30-31	0935	0835	10300	150	318	20	0.08	1.4	1.60	0.300	0.022	52	38
DEC 31-													
JAN 01	1000	1400	12400	300	713	44	0.09	1.3	1.50	0.550	0.026	37	24
04-05	1020	0920	7350	240	341	20	0.08	1.0	1.10	0.260	0.018	30	29
05-06	1020	0920	7330	210	303	20	0.06	0.90	1.10	0.260	0.016	31	31
06-07	1020	0920	7120	170	248	16	0.06	0.80	1.20	0.230	0.017	30	32
07-08	1030	0930	6740	140	199	14	0.06	0.83	1.30	0.180	0.014	44	29
08-09	1030	0930	6120	100	168	11	0.07	0.67	1.50	0.160	0.014	34	30
10-11	1030	0930	4490	40	--	--	0.06	0.53	1.70	0.070	0.016	33	35
11-12	0930	0830	3680	32	64	<5	0.11	0.49	1.70	0.080	0.015	44	36
12-13	0930	0830	2990	26	--	--	0.11	0.54	1.70	0.080	0.012	92	35
14-15	1100	1000	2550	24	--	--	0.14	0.66	1.80	0.055	0.014	61	66
15-16	1100	0800	2600	40	79	<5	0.18	0.59	1.90	0.070	0.013	73	71
16-17	0900	0900	3560	24	--	--	0.17	0.63	1.70	0.055	0.013	84	68
17...	0730	--	4500	20	--	--	0.20	0.77	2.00	0.050	0.019	80	70
17-18	0900	0700	5140	40	106	7	0.17	0.69	1.70	0.110	0.016	85	64
18-20	0745	0645	5420	80	148	9	0.13	0.70	1.70	0.130	0.020	59	44
20-22	0745	0645	4790	34	69	5	0.09	0.50	1.70	0.070	0.020	55	46
22-23	1040	0740	3440	16	--	--	0.09	0.57	1.80	0.060	0.018	53	47
23-25	0935	0835	2540	15	--	--	0.13	0.42	2.00	0.050	0.012	55	54
25-26	0935	0835	2120	11	--	--	0.14	0.51	2.00	0.050	0.014	70	66
26-27	0935	0835	2020	11	--	--	0.18	0.60	2.10	0.040	0.013	76	68
27-28	0935	0835	2220	10	--	--	0.17	0.61	2.10	0.040	0.015	72	71
28-29	0945	0645	2460	9.9	--	--	0.14	0.67	2.00	0.045	0.019	82	70

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
FEB													
15-18	1015	1715	3170	14	--	--	0.07	0.42	1.60	0.045	0.009	55	41
21-22	1030	0830	6160	85	199	14	0.09	0.89	1.80	0.180	0.014	51	50
22-23	0905	2005	6130	120	219	14	0.07	0.81	1.30	0.170	0.009	43	40
23-25	2105	0805	4770	45	81	<10	0.06	0.62	1.20	0.080	0.007	42	39
MAR													
06...	1030	--	10500	130	246	16	0.07	1.1	1.40	0.240	0.030	31	33
07...	1030	--	10600	120	215	16	0.06	0.87	1.30	0.200	0.026	32	35
08...	0930	--	11400	150	329	22	0.08	0.98	1.40	0.310	0.024	31	36
11...	1010	--	9180	100	168	12	0.03	0.70	1.40	0.180	0.012	41	30
14...	1000	--	8300	82	121	8	0.10	0.45	1.30	0.130	0.011	35	32
18...	1000	--	6320	28	--	--	0.06	0.30	1.70	0.060	0.010	34	40
21...	1010	--	5150	24	--	--	0.10	0.53	1.70	0.070	0.020	46	52
25...	1010	--	5420	26	--	--	0.08	0.40	1.40	0.080	0.018	55	64
28...	1010	--	6340	35	67	6	0.10	0.58	1.30	0.110	0.020	44	61
APR													
01...	1015	--	5990	110	--	--	0.05	0.63	1.20	0.140	0.016	44	45
04...	0955	--	4770	16	--	--	0.13	0.35	1.40	0.045	0.014	42	50
08...	0750	--	2770	55	189	17	0.12	0.98	1.20	0.260	0.014	65	68
08...	1530	--	2770	16	--	--	0.12	0.54	1.20	0.055	0.006	66	63
09...	1530	--	2660	11	--	--	0.08	0.93	1.30	0.045	0.006	67	69
10-12	0740	0640	4310	26	--	--	0.11	0.83	1.20	0.075	0.008	64	70
12-14	0730	1430	3910	60	101	12	0.08	0.77	0.92	0.095	0.009	45	50
14-15	1530	0930	2800	24	--	--	0.06	0.58	0.90	0.050	0.008	49	53
15-18	1010	0710	3880	21	--	--	0.06	0.67	1.00	0.055	0.008	59	55
18-19	0740	0640	3740	32	54	5	--	0.55	0.91	0.065	0.009	51	55
19-20	0740	0640	3300	26	--	--	--	0.63	0.91	0.055	0.010	53	58
20-21	0740	0640	4240	14	--	--	--	0.58	0.90	0.055	0.010	57	63
22...	0740	--	11000	80	183	15	--	1.0	1.10	0.190	0.027	45	48
22-23	0745	0645	12000	160	340	23	0.08	1.3	1.20	0.340	0.029	39	40
23-24	0745	0645	11800	130	292	20	0.11	1.3	1.30	0.310	0.030	28	35
24-25	0745	0645	9870	60	107	9	0.05	0.84	1.20	0.140	0.022	32	41
25-26	0745	0645	8700	50	86	6	0.05	0.83	1.10	0.130	0.014	38	45
26-27	0745	1845	3180	50	97	7	0.04	0.59	0.90	0.130	0.012	36	37
27-29	1945	0645	7350	50	89	6	0.05	0.70	1.00	0.130	0.014	37	42
29-30	0745	0645	6160	40	70	6	0.05	0.55	0.91	0.100	0.012	33	38
APR 30-													
MAY 01	0745	0645	5880	30	--	--	0.05	0.52	0.91	0.085	0.010	32	38
01-03	0745	0645	5820	21	--	--	0.03	0.55	0.88	0.055	0.011	34	39
03-03	0740	1840	5810	28	--	--	0.06	0.35	1.00	0.080	0.012	34	41
03-06	2240	0640	4480	15	--	--	0.06	0.33	1.10	0.055	0.011	40	46
06-08	0740	0640	3350	12	--	--	0.07	0.40	1.00	0.055	0.011	47	55
08-10	0800	0700	3400	13	--	--	0.08	0.62	1.10	0.045	0.009	59	58
10-13	0745	0645	2550	11	--	--	0.10	0.65	0.97	0.040	0.010	51	64
13-15	0740	0640	2180	9.6	--	--	0.08	0.45	1.10	0.045	0.008	62	76
15-16	0805	0705	2060	6.2	--	--	--	0.70	1.20	0.070	0.009	74	85
16-17	0745	0645	1960	9.1	--	--	--	0.73	1.00	0.060	0.003	69	89
17-19	0745	0645	2130	11	--	--	--	0.90	1.00	0.060	0.010	68	87
19-20	1115	0715	2380	10	--	--	--	0.87	1.00	0.050	0.007	75	90
20-22	0745	0645	1960	9.6	--	--	--	0.52	1.00	0.050	0.006	70	78
22-24	0750	0650	1550	8.7	--	--	0.11	0.43	0.98	0.050	0.002	64	-
24-26	0750	1350	1440	8.5	--	--	0.08	0.68	0.64	0.050	0.004	72	90
26-27	1450	0650	1520	--	--	--	0.07	1.0	0.60	0.070	0.003	76	92
27-28	0800	0800	1560	12	--	--	0.10	0.68	0.62	0.070	0.008	76	90
28-30	0930	0830	1470	9.5	--	--	0.15	1.0	0.97	0.055	0.013	88	88
MAY 30-													
JUN 03	0950	0650	1310	7.1	--	--	0.02	0.81	1.30	0.055	0.017	85	85
03-07	0740	0640	1120	6.7	--	--	0.06	0.80	0.95	0.060	0.003	84	83
05-07	0740	0640	1120	6.9	--	--	0.06	0.38	0.95	0.055	0.048	84	84
07-10	0755	0655	915	8.3	--	--	0.07	0.77	1.10	0.055	0.004	96	96
10-11	0745	0645	750	5.1	--	--	0.07	1.4	1.00	0.055	0.005	91	82
11-12	0745	0645	840	6.9	--	--	0.11	2.1	0.68	0.065	0.005	95	94
12-12	0800	1100	990	7.2	--	--	0.21	1.2	0.90	0.070	0.007	88	78
12-14	1200	0700	900	7.9	--	--	0.18	1.2	1.00	0.075	0.007	90	90
17-19	0800	0700	580	4.7	--	--	0.08	0.80	0.90	0.065	0.125	97	100
19-21	0800	0700	560	5.5	--	--	0.12	0.85	0.96	0.055	0.005	87	100

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued													
JUN-continued													
21-24	0755	0655	550	6.8	--	--	0.02	0.92	0.69	0.050	0.008	88	100
24-26	0745	0745	490	5.3	--	--	0.04	0.80	0.76	0.050	0.011	87	100
26-28	0755	0050	460	5.6	--	--	0.07	0.63	0.65	0.050	0.008	86	100
28...	0750	--	440	4.9	--	--	0.18	0.63	0.69	0.040	0.008	76	100
JUN 28-													
JUL 01	0750	0650	420	5.5	--	--	0.17	0.75	0.71	0.040	0.011	71	90
01-03	0805	0705	430	5.1	--	--	0.07	0.74	0.51	0.055	0.007	79	90
03-05	0840	0740	440	7.7	--	--	0.17	0.71	0.79	0.090	0.015	87	95
05-06	0905	0805	470	6.9	--	--	0.14	0.29	0.62	0.065	0.019	85	88
06-07	0905	0805	480	6.7	--	--	0.14	0.37	0.61	0.080	0.019	85	90
07-08	0905	0805	500	6.2	--	--	0.14	0.33	0.60	0.080	0.021	69	82
10-12	0900	0800	530	4.7	--	--	0.10	0.71	0.71	0.050	0.008	82	110
12-13	0820	1920	480	3.8	--	--	0.20	0.71	0.70	0.045	0.012	91	170
13-15	2020	0720	610	2.9	--	--	0.36	0.88	0.81	0.055	0.018	81	150
15-17	0745	0645	620	3.5	--	--	0.18	0.66	0.48	0.040	0.012	75	110
17-19	0750	0650	470	4.3	--	--	0.25	0.82	0.70	0.060	0.008	84	110
19-20	0750	0050	430	2.8	--	--	0.22	1.0	0.73	0.055	0.004	93	110
22...	0745	--	410	3.1	--	--	0.27	1.0	0.68	0.050	0.004	90	90
22-24	0750	0650	390	2.8	--	--	0.15	0.86	0.52	0.055	0.008	74	--
24-26	0740	0640	400	3.7	--	--	0.26	0.91	0.50	0.065	0.018	57	74
26-29	0745	0645	380	4.4	--	--	0.16	1.0	0.45	0.060	0.007	70	78
29-31	0810	0710	360	6.8	--	--	<0.01	0.91	0.50	0.065	0.008	77	82
JUL 31-													
AUG 02	0750	0650	380	7.2	--	--	0.28	0.79	0.62	0.055	0.013	70	86
02-03	0750	0650	400	2.8	--	--	0.25	0.89	0.54	0.050	0.014	80	94
03-04	0750	0650	390	3.1	--	--	0.23	1.1	0.64	0.055	0.020	110	94
04-05	0750	0650	380	2.7	--	--	0.29	1.1	0.65	0.050	0.020	69	96
05-07	0825	0725	400	3.5	--	--	0.18	0.75	0.53	0.055	0.025	110	96
07-09	0750	0650	370	4.6	--	--	0.21	1.1	0.55	0.080	0.020	110	100
08-09	0750	0650	370	4.1	--	--	0.30	1.0	0.74	0.090	0.017	91	100
09-10	0745	0645	410	12	--	--	0.38	1.2	0.74	0.130	0.022	87	98
10-11	0745	0645	510	5.1	--	--	0.28	0.93	0.66	0.090	0.022	120	92
11-12	0745	0645	580	5.6	--	--	0.32	1.2	0.59	0.070	0.023	150	94
12-14	0750	0650	530	6.6	--	--	0.16	0.75	0.55	0.070	0.023	170	82
14-15	0750	1650	440	7.3	--	--	0.18	0.85	0.54	0.060	0.016	210	100
16...	0740	--	400	7.1	--	--	0.36	1.3	0.58	0.055	0.012	230	110
16-19	1050	0650	390	8.6	--	--	0.31	1.5	0.53	0.070	--	200	92
19-21	0825	0725	390	9.2	--	--	0.29	1.0	0.54	0.075	0.022	200	84
21-22	0750	0650	450	12	--	--	0.30	0.88	0.49	0.075	0.024	130	78
22-23	0750	0650	500	10	--	--	0.32	0.76	0.55	0.070	0.023	100	76
23-26	0740	0640	460	5.6	--	--	0.29	0.89	0.58	0.130	0.022	100	93
26-26	0845	2345	410	3.4	--	--	0.18	0.76	0.45	0.055	0.011	90	75
27-28	0845	2345	400	4.3	--	--	0.22	0.55	0.47	0.055	0.007	160	77
28-30	0800	0700	370	7.9	--	--	0.24	0.74	0.49	0.050	0.007	170	96
30-31	0750	2250	360	8.6	--	--	0.21	0.84	1.00	0.065	0.012	170	77
AUG 31-													
SEP 02	2350	1050	360	7.2	--	--	0.23	0.82	1.00	0.065	0.019	160	79
03...	0815	--	350	9.0	--	--	0.27	1.2	0.90	0.120	0.026	120	91
03-05	0915	1015	360	12	--	--	0.25	0.92	0.55	0.070	0.018	100	34
05-09	1020	0920	370	2.0	--	--	0.15	0.83	0.47	0.045	0.015	100	92
10-12	1400	1000	350	2.7	--	--	0.20	0.77	0.64	0.065	0.036	110	60
13-15	0930	0230	340	3.8	--	--	0.26	1.3	--	0.055	0.023	130	75
15-16	0330	0830	340	6.0	--	--	0.26	1.2	--	0.065	0.025	140	84
16-19	1025	0925	340	22	--	--	0.12	0.75	0.65	0.075	0.033	160	80
19-23	1050	0950	340	4.3	--	--	0.25	0.76	0.72	0.065	0.036	130	76
23-25	1030	0130	360	4.3	--	--	0.26	0.85	0.78	0.060	0.034	140	90
25-26	0230	0930	390	5.8	--	--	0.31	0.90	0.79	0.070	0.030	150	96
26-30	1020	0920	420	22	--	--	0.31	0.78	0.84	0.055	0.026	150	80
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
OCT													
03...	1610	--	540	3.3	--	--	0.260	0.94	0.98	0.045	0.010	210	160
04...	0720	--	436	3.4	--	--	0.260	0.88	1.00	0.045	0.011	230	120
07-10	1030	0930	650	8.6	--	--	0.180	0.53	0.43	0.045	0.022	160	110

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
OCT-continued													
10-12	1015	2115	520	3.6	--	--	0.29	0.90	0.78	0.055	0.025	150	100
12-15	2215	0915	610	4.5	--	--	0.29	0.92	0.87	0.050	0.023	180	86
15-17	1015	0915	790	18	--	--	0.25	1.5	0.79	--	0.024	120	180
17-21	1040	0940	630	4.6	--	--	0.26	0.49	0.83	0.045	0.016	140	--
21-24	1035	0935	700	3.5	--	4	0.21	0.46	0.76	0.045	0.021	110	84
24-27	1010	2110	540	3.7	--	--	0.30	0.90	0.80	0.040	0.021	130	82
29-31	1530	0930	730	4.1	--	--	0.29	0.82	0.64	0.040	0.017	100	82
OCT 31-													
NOV 04	1140	1040	610	4.2	--	--	--	0.80	--	0.055	0.016	150	86
04-08	1000	0900	510	4.2	--	--	0.30	0.52	0.59	0.045	0.020	97	57
08-10	1015	1715	300	3.2	--	--	0.25	0.75	0.72	0.035	0.016	140	89
10-12	1815	0915	300	8.5	--	--	0.26	0.88	0.77	0.055	0.014	160	94
12-14	1045	0945	350	2.8	--	--	0.52	1.0	0.87	0.040	0.015	200	110
14-18	1035	0935	460	4.2	--	--	0.90	1.2	0.92	0.050	0.015	150	110
18-21	1005	0905	480	1.5	--	--	0.93	1.4	0.46	0.045	0.012	150	140
21-25	1005	0905	510	2.5	--	--	--	0.83	0.77	0.035	0.012	170	100
25-27	1010	0910	760	3.5	--	--	0.59	--	0.99	0.055	0.019	250	130
27-29	1005	2105	570	3.7	--	--	--	0.56	0.67	0.040	0.020	200	100
NOV 29-													
DEC 02	2205	0905	550	3.6	--	--	--	0.50	0.73	0.035	0.014	200	91
02-05	1010	0910	1070	8.9	--	--	0.42	--	0.85	0.060	0.016	190	120
05-06	1100	2200	1900	5.8	--	--	0.42	0.86	0.83	0.055	0.026	200	--
06-09	2300	1000	1500	41	--	--	0.39	0.83	0.79	0.080	0.016	160	--
09-12	1005	0905	1710	17	--	--	0.22	1.0	0.90	0.050	0.024	210	90
12-16	1005	0905	1130	17	--	--	0.26	0.84	0.91	0.050	0.016	180	70
16-19	1020	0920	950	7.5	--	--	0.32	0.95	1.10	0.040	0.017	180	93
19-23	1015	0915	950	7.0	--	--	0.40	0.95	1.10	0.045	0.019	160	83
23-26	1010	0910	900	6.3	--	--	0.24	0.79	0.96	0.035	0.016	130	87
26-28	1540	1440	760	6.1	--	--	0.22	0.82	0.97	0.035	0.014	130	35
28-30	1540	1040	850	9.0	--	--	0.24	0.88	1.10	0.050	0.014	120	50
DEC 30-													
JAN 03	1040	0940	1690	13	--	--	0.20	0.82	1.10	0.045	0.017	140	100
03-06	1020	0920	1700	18	--	--	0.20	0.66	1.20	0.040	0.016	79	74
07-10	0940	0940	1990	16	--	--	0.21	0.50	1.20	0.045	0.027	70	77
10-14	1025	0925	1570	8.1	--	--	0.23	0.61	1.50	0.035	0.016	75	80
14-17	0955	0955	1940	6.4	--	--	0.23	0.59	1.30	0.050	0.029	87	84
17-21	1015	0915	1530	25	--	--	0.37	0.58	1.20	0.050	0.014	74	72
21-23	0945	1810	1070	14	--	--	0.27	0.75	1.30	0.055	0.020	91	97
24-26	1400	1300	1910	7.0	--	--	0.31	0.83	1.10	0.055	0.026	130	93
26-28	1400	0900	2150	1.2	--	--	0.17	0.47	1.20	0.040	0.013	93	77
28-31	1000	0900	1520	15	--	--	0.25	0.61	1.10	0.050	0.021	75	78
JAN 31-													
FEB 04	0950	0850	1210	5.9	--	--	0.26	0.54	1.20	0.050	0.025	77	80
03-07	1040	0840	920	4.5	--	--	0.26	0.60	1.20	--	0.022	100	89
07-11	0950	0850	740	4.2	<5	<5	0.39	0.90	1.30	0.050	0.022	130	100
11-14	1000	0900	610	2.6	--	--	0.29	0.79	1.00	0.035	0.015	130	97
14-16	0955	0455	640	3.3	--	--	0.26	0.60	0.90	0.055	0.022	100	69
16-18	0555	0855	1140	4.8	--	--	0.52	1.1	1.20	0.050	0.022	170	110
18-19	0935	2035	1570	4.4	--	--	0.36	1.1	1.40	0.060	0.029	180	110
19-21	2135	0835	1950	6.4	--	--	0.32	1.1	1.70	0.060	0.028	120	91
21-22	0955	2055	2680	9.0	--	--	0.24	0.66	1.70	0.055	0.024	96	90
22-24	2155	0855	3100	26	--	--	0.17	0.73	1.80	0.075	0.022	82	78
24-25	1015	0915	3780	24	--	--	0.13	0.57	1.80	0.060	0.021	71	73
25-26	1015	0915	4640	19	--	--	0.12	0.54	1.90	0.060	0.018	65	71
26-27	1015	0915	5160	38	42	--	0.11	0.60	1.40	0.105	0.014	54	59
27-28	1000	1700	4760	26	--	--	0.11	0.65	1.30	0.110	0.016	49	60
28-29	1800	0500	4050	22	--	--	0.13	0.55	1.40	0.085	0.014	51	60
MAR													
17...	1000	--	2990	12	--	--	0.13	0.90	1.40	0.045	0.012	58	69
24...	0950	--	2160	6.7	--	--	0.13	0.45	1.70	0.030	0.012	83	75
27...	0955	--	7300	22	--	--	0.17	0.78	1.20	0.100	0.020	100	75
27-28	1830	0630	9150	85	198	20	0.04	1.7	2.30	0.210	0.005	78	57
29-29	1130	2230	9610	75	145	20	0.10	2.1	2.30	0.170	0.003	56	47
30-31	1130	0930	8650	55	97	10	0.06	1.0	2.50	0.110	0.013	55	53

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
MAR-continued													
30...	1600	--	8810	65	--	--	0.07	0.82	2.60	0.130	0.020	60	52
MAR 31-													
APR 02	1005	1305	7810	30	63	7	0.02	0.83	2.40	0.090	0.004	55	54
02...	0730	--	7230	40	61	6	0.10	0.73	2.50	0.100	0.015	53	54
03-07	1015	0915	6380	18	--	--	0.03	0.58	1.70	0.040	0.004	43	49
07-10	1555	0855	5880	22	--	--	0.10	0.68	1.70	0.065	0.009	40	49
10-11	0950	1050	6620	34	71	7	0.07	0.69	1.40	0.130	0.010	31	46
14-16	0945	1330	4570	3.5	--	--	0.05	0.83	1.80	0.130	0.095	92	55
16-17	1400	2100	5320	34	64	7	--	0.61	1.30	0.095	0.012	58	56
17-19	2200	0500	6800	36	72	7	--	0.61	1.30	0.095	0.011	47	55
19-20	0600	1000	7220	45	72	6	--	0.62	1.30	0.110	0.011	43	53
20-22	0955	0855	7410	37	61	6	0.05	0.55	1.30	0.120	0.013	34	50
22-24	0955	0855	7640	50	84	8	0.06	0.61	1.10	0.100	0.012	35	48
24-26	0955	0855	7970	38	72	7	0.06	0.49	0.97	0.090	0.011	40	45
26-28	0955	0855	7990	55	104	9	0.05	0.62	1.10	0.150	0.012	28	45
28-29	0955	2055	7180	28	--	--	0.06	0.44	1.10	0.080	0.018	36	45
APR 29-													
MAY 01	2155	0855	6770	50	58	5	0.08	0.49	0.90	0.085	0.018	36	42
01-02	0940	1640	6970	55	87	8	0.06	0.59	0.92	0.095	0.012	35	39
05-06	1005	0905	7800	37	58	8	0.05	0.66	1.10	0.100	0.017	39	46
06-07	1005	0905	7560	65	87	8	0.07	0.66	1.00	0.130	0.034	29	43
07-08	1005	0905	6920	90	96	11	0.09	0.66	0.89	0.150	0.036	31	45
08-09	1035	1735	6360	48	--	--	0.10	0.53	0.87	0.085	0.010	35	47
09-11	1835	0135	4430	22	--	--	0.07	0.44	0.90	0.050	0.011	33	53
11-12	0235	0935	2800	18	--	--	0.10	0.50	1.10	0.045	0.013	35	69
12-13	1015	0915	2560	12	--	--	0.12	0.59	1.10	0.050	0.019	34	75
13-14	1015	0915	2280	16	--	--	0.15	0.60	1.10	0.060	0.019	34	75
14-15	1015	0915	2120	14	--	--	0.17	0.59	1.10	0.055	0.014	34	70
15-17	0945	0845	1980	7.2	--	--	0.13	0.55	1.00	0.045	0.013	37	80
17-19	0945	0845	1820	7.2	--	--	0.11	0.54	1.10	0.045	0.013	79	80
19-22	0955	0855	1950	11	--	--	0.15	0.68	1.10	0.045	0.010	84	93
22-24	0755	0655	1470	8.2	--	--	0.19	0.69	1.00	0.040	0.005	73	98
24-26	0755	0655	1370	11	--	--	0.11	0.60	0.89	0.040	0.005	56	100
26-27	1020	2120	1540	7.0	--	--	0.10	0.66	0.89	0.030	0.005	--	96
27-29	2220	0920	1400	7.0	--	--	0.14	0.64	0.97	0.030	0.006	--	110
29-31	0940	0840	1410	5.7	--	--	0.17	0.62	1.10	0.035	0.005	78	120
MAY 31-													
JUN 02	0940	0840	1660	7.4	--	--	0.18	0.62	1.10	0.040	0.009	89	120
02-03	1005	2105	1910	7.1	--	--	0.13	0.64	1.10	0.040	0.010	74	110
03-05	2205	0905	1740	6.7	--	--	0.13	0.62	0.91	0.045	0.014	--	96
05-07	0950	0850	1430	5.1	--	--	0.15	0.72	1.00	0.040	0.022	82	92
07-09	0950	0850	1550	6.1	--	--	0.14	0.64	0.80	0.060	0.016	87	92
09-10	0955	2055	1470	4.9	--	--	0.12	0.69	0.89	0.045	0.016	46	100
10-12	2155	0855	1170	3.3	--	--	0.14	0.97	0.82	0.035	0.008	81	110
12-14	1010	0110	940	4.2	--	--	0.14	0.81	0.76	0.040	0.004	78	100
14-15	0210	1510	890	4.4	--	--	0.11	0.88	0.80	0.040	0.004	99	110
15-19	1520	0920	790	7.3	--	--	0.17	1.1	0.73	0.040	0.003	98	100
19-21	1010	0910	820	5.0	--	--	0.25	0.95	0.70	0.050	0.010	87	92
21-23	1010	0910	900	5.4	--	--	0.25	0.92	0.67	0.045	0.011	99	98
23-24	1005	2105	740	7.0	--	--	0.28	1.1	0.74	0.030	0.007	120	110
24-26	2205	0905	750	6.5	--	--	0.36	1.4	0.92	0.045	0.010	120	120
26-28	0955	0855	660	5.4	--	--	0.30	1.5	0.88	--	0.008	120	110
28-30	0955	0855	710	4.3	--	--	0.17	1.0	0.86	--	0.004	93	100
JUN 30-													
JUL 02	1010	0810	640	3.6	--	--	0.14	0.85	0.90	0.040	0.005	97	120
02-04	0910	0810	570	4.7	--	--	0.12	0.88	0.84	0.040	0.002	100	130
04-06	0910	0810	620	6.7	--	--	0.13	0.77	0.74	0.050	0.007	84	110
06-07	0855	2250	530	2.9	--	--	0.14	0.81	0.66	0.045	0.016	83	110
08-10	0755	0855	640	4.0	9	<5	0.14	0.87	0.67	0.050	0.015	83	120
10-12	0945	0945	810	4.5	--	--	0.25	0.94	0.90	0.050	0.015	90	110
13...	0920	--	710	5.2	--	--	0.23	0.87	0.72	0.040	0.016	86	130
13...	1030	--	710	3.3	--	--	0.23	0.93	0.80	0.040	0.010	94	130
13-14	1540	0640	930	5.5	--	--	0.15	0.81	0.73	0.055	0.011	83	130
14-15	0800	2300	1580	6.8	--	--	0.20	0.93	--	--	0.012	87	120

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued													
JUL-continued													
17-18	0800	1900	5850	24	--	--	0.10	0.81	--	0.100	0.028	50	64
18-21	2000	0700	2830	85	134	12	0.07	1.1	--	0.190	0.033	67	52
21-22	0750	1850	3560	39	50	5	0.10	0.73	1.50	--	0.021	84	63
22-24	1950	0650	4090	37	49	5	0.11	0.79	1.30	--	0.024	100	64
24-25	0800	1900	5100	60	74	7	0.07	0.49	1.30	0.150	0.030	74	47
25-27	2000	0700	5040	38	47	5	0.08	0.71	1.30	0.110	0.019	71	47
27-29	0800	0700	5470	37	55	6	0.06	0.73	1.10	0.130	0.028	39	41
29-31	0800	0700	5930	38	58	6	0.07	0.74	0.94	0.130	0.028	31	39
JUL 31-													
AUG 02	0800	0700	7170	75	107	9	0.06	0.89	1.10	0.150	0.040	34	39
02-04	0800	0700	7110	80	114	10	0.06	0.85	0.93	0.130	0.040	36	40
04-05	0810	1910	7720	60	91	9	0.03	0.76	0.76	0.150	0.035	37	41
05-07	2010	0710	6960	50	84	9	0.05	0.87	0.85	0.140	0.033	35	43
07-09	1015	0915	5430	28	--	--	0.04	0.69	0.67	0.100	0.024	37	42
09-11	1015	0915	4900	26	--	--	0.04	0.67	0.66	0.075	0.024	40	42
11-12	0810	1910	5560	22	--	--	0.05	0.50	0.73	0.095	0.024	34	37
12-14	2010	0710	5370	26	--	--	0.04	0.56	0.51	0.100	0.022	36	36
14-15	1005	2105	3520	14	--	--	0.05	0.52	0.68	0.060	0.021	39	42
17-18	1230	0830	1770	18	--	--	0.09	0.71	0.91	0.080	0.020	62	68
18-21	0945	0845	1440	13	--	--	0.07	0.60	1.10	0.055	0.024	73	78
21-21	0935	1435	1230	8.6	--	--	0.07	0.66	1.10	0.060	0.022	75	77
24...	1000	--	1010	7.4	--	--	0.13	0.85	1.00	0.050	0.016	95	84
24-25	1010	0910	1060	8.4	--	--	0.13	0.81	0.92	0.060	0.009	85	84
25-26	0950	2050	1140	6.7	--	--	0.10	0.53	0.83	0.050	0.008	86	84
26-28	2150	0850	1550	8.7	21	<5	0.17	0.61	0.88	0.050	0.011	90	84
28-30	0945	0845	4050	13	--	--	0.11	0.67	0.78	0.085	0.030	80	88
AUG 30-													
SEP 01	0945	0845	4300	27	41	<5	0.06	0.81	0.74	0.130	0.043	51	58
01-04	1045	0945	2240	15	23	<5	0.09	0.73	0.70	0.110	0.043	49	68
04-06	1005	0905	2390	10	--	--	0.09	0.63	0.84	0.070	0.031	97	87
06-08	1005	0905	1820	14	--	--	0.08	0.58	0.80	0.080	0.033	74	68
08-10	1110	1010	1400	15	--	--	0.08	0.70	0.72	0.085	0.032	53	70
11-15	1015	0915	1140	8.8	--	--	0.12	0.73	0.68	0.070	0.022	66	90
15-18	0955	0855	910	8.6	9	<5	0.14	0.78	0.80	0.060	0.014	87	86
18-22	0940	0840	1680	6.9	--	--	0.16	0.86	0.90	0.070	0.022	100	98
22-23	1010	1810	3780	17	--	--	0.12	0.64	0.83	0.100	0.035	65	74
25-27	1005	0905	5670	140	191	16	0.08	0.94	0.50	0.250	0.024	49	42
27-29	1405	0905	5060	50	75	6	0.07	0.62	0.59	0.120	0.026	44	47
29-30	1025	2125	3810	26	--	--	0.08	0.63	0.85	0.085	0.031	44	47
SEP 30-													
OCT 02	2225	0925	1850	18	--	--	0.13	0.66	0.93	0.070	0.031	36	54
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
OCT													
02-03	0935	1635	1740	16	--	--	0.21	0.79	0.88	0.065	0.031	51	62
03-05	1735	0335	1270	18	--	--	0.17	0.69	0.83	0.060	0.032	62	64
06-09	1100	1000	1100	8.0	--	--	0.30	0.72	1.10	0.060	0.029	82	82
09-11	1420	1320	1810	14	--	--	0.21	0.66	1.10	0.065	0.016	95	91
11-13	1420	0920	2330	15	--	--	0.09	0.51	0.91	0.075	0.024	79	74
13-15	1000	0900	1780	19	--	--	0.13	0.55	0.73	0.065	0.024	63	66
15-17	0955	0855	1250	18	--	--	0.22	0.77	0.79	0.075	0.021	61	71
17-19	0955	0855	2420	9.3	--	--	0.18	0.75	0.79	0.055	0.021	80	81
19-22	0950	0850	1660	16	--	--	0.14	0.48	0.68	0.080	0.019	43	65
22-24	0950	0850	1860	16	--	--	0.21	0.82	0.72	0.090	0.019	49	84
24-26	0950	0850	4170	22	--	--	0.07	0.45	0.61	0.100	0.019	64	56
26-27	0955	2055	4510	31	41	<5	0.05	0.62	0.65	0.090	0.011	42	50
27-29	2155	0855	3000	28	--	--	0.09	0.66	0.56	0.060	0.015	40	49
29-31	1215	1115	2120	15	21	<5	0.13	0.55	0.71	0.060	0.020	48	62
OCT 31-													
NOV 02	1215	0915	2210	13	16	<6	0.11	0.48	0.78	0.050	0.019	64	67
02-03	0935	1135	2580	12	--	--	0.05	0.45	0.75	0.070	0.027	62	64
05-07	1000	0900	6610	50	71	6	0.05	0.64	0.61	0.140	0.016	37	47
07-09	1000	0800	5760	20	--	--	0.06	0.49	0.74	0.070	0.020	41	51
09-12	0940	0840	3020	12	14	<5	0.08	0.48	0.77	0.045	0.017	47	61
12-14	0930	0830	3610	12	--	--	0.09	0.56	0.87	0.050	0.014	56	60
14-16	0930	0830	6120	55	75	6	0.08	0.60	0.70	0.110	0.015	41	44

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
NOV-continued													
16-19	0955	0855	4080	29	--	--	0.08	0.45	0.75	0.065	0.014	43	41
19-21	0950	0850	3220	11	--	--	0.13	0.50	1.10	0.040	0.016	56	60
23-24	1000	1000	7380	30	48	<5	0.05	0.55	0.97	0.090	0.022	47	47
25-27	1415	0515	8440	100	141	14	0.07	0.90	0.79	0.180	0.023	35	43
27-28	0615	2315	6090	45	62	6	0.05	0.58	0.89	0.093	0.021	37	48
DEC													
03-05	0955	0855	4910	20	--	--	0.07	0.40	1.10	0.060	0.014	38	43
05-07	0955	0855	1820	18	--	--	0.07	0.40	1.10	0.045	0.014	37	45
07-10	0955	0855	3820	19	--	--	0.09	0.40	1.30	0.070	0.015	48	61
10-12	0950	0850	1600	16	--	--	0.14	0.55	1.40	0.050	0.019	52	57
12-14	0950	0850	2910	6.6	10	<5	0.16	0.60	1.50	0.045	0.020	79	72
14-15	1055	2155	3630	8.3	--	--	0.10	0.37	1.40	0.035	0.013	55	110
15-17	2255	0855	3590	11	--	--	0.12	0.51	1.20	0.045	0.015	56	110
17-19	0950	0850	7550	50	101	8	0.10	0.73	1.20	0.120	0.024	54	44
19-21	0950	0850	7490	50	76	5	0.07	0.73	1.00	0.110	0.022	46	42
21-22	1010	2110	7660	45	79	6	0.08	0.61	0.49	0.085	0.018	37	43
22-24	2210	0710	7160	32	57	4	0.03	0.55	0.52	0.080	0.014	36	44
24-28	0755	0655	5070	28	--	--	0.07	0.47	1.10	0.070	0.015	38	43
28-29	0755	1555	2580	12	--	--	0.09	0.43	1.40	0.040	0.017	45	58
29-31	1655	0655	3280	20	--	--	0.14	0.67	1.30	0.055	0.018	65	64
DEC 31													
JAN 02	0815	0715	9640	120	271	23	0.09	1.0	1.20	0.260	0.019	47	46
03-04	1615	0715	7090	120	171	12	0.07	0.79	0.89	0.130	0.015	40	42
04-05	1000	0900	7010	95	120	10	0.08	0.80	0.96	0.120	0.015	39	46
05-06	1000	0900	8680	85	--	--	0.07	0.76	1.10	0.150	0.020	36	45
06-07	1000	0900	7370	80	--	--	0.08	0.81	1.10	0.160	0.027	36	47
07-08	0945	0845	7390	40	60	6	0.09	0.65	1.10	0.090	--	59	79
08-09	0945	0845	7820	38	68	6	0.05	0.57	1.10	0.080	0.014	38	41
09-10	0945	0845	7830	50	82	7	0.05	0.51	1.10	0.100	0.012	30	39
13-15	1400	0900	7500	26	--	--	0.06	0.57	1.30	0.060	0.013	52	42
15-17	0920	0820	6960	24	--	--	0.06	0.58	1.40	0.055	0.013	48	46
17-19	0920	0820	4580	20	--	--	0.06	0.39	1.30	0.050	0.012	47	52
19-21	1000	0900	2670	25	--	--	0.02	0.50	1.40	0.055	0.011	54	66
21-23	0945	0845	3310	14	--	--	0.29	0.72	1.50	0.050	0.014	74	74
23-25	0945	0845	6270	38	69	<12	0.12	0.65	1.50	0.095	0.016	61	56
25-26	1000	2100	6720	38	63	<6	0.12	0.73	1.50	0.075	0.017	48	49
26-28	2200	0900	5140	46	66	5	0.09	0.60	1.30	0.090	0.014	44	50
28-30	0955	0855	3370	18	--	--	0.12	0.66	1.20	0.045	0.012	49	59
FEB													
01-04	1020	0920	2400	7.8	--	--	0.13	0.58	1.50	0.035	0.010	75	71
04-06	1020	0320	2630	8.7	--	--	0.14	0.55	1.50	0.035	0.010	68	72
08-12	1015	0715	1660	6.3	--	--	0.19	0.64	1.70	0.045	0.010	85	92
14-16	0800	0700	1510	4.8	--	--	0.17	0.54	1.80	0.035	0.010	91	100
16-18	1000	0900	1420	3.8	--	--	0.16	0.57	1.80	0.030	0.008	100	100
18-20	0945	0845	1230	3.3	--	--	0.18	0.60	1.80	0.030	0.008	99	110
20-22	0945	0845	1170	4.4	--	--	0.22	0.74	1.80	0.035	0.007	100	110
22-25	1000	0900	1280	3.5	--	--	0.27	0.97	2.30	0.040	0.007	120	120
FEB 25-													
MAR 01	0950	0850	1240	3.4	--	--	0.28	0.88	1.80	0.040	0.011	110	110
03-04	1245	0845	1400	4.4	--	--	0.28	0.89	1.90	0.050	0.008	130	110
08-11	0950	0850	1940	3.8	--	--	0.22	0.90	1.50	0.035	0.009	140	93
11-15	1000	0800	1690	9.2	--	--	0.19	0.84	1.40	0.045	0.011	120	79
15-18	0845	0745	1640	5.4	--	--	0.23	0.80	1.40	0.040	0.011	120	92
18-22	0810	0710	2450	6.7	--	--	0.18	0.76	1.40	0.040	0.012	110	80
22-23	0800	1900	2530	5.8	--	--	0.16	0.52	1.40	0.035	0.012	93	75
23-25	2000	0700	3750	6.9	7	--	0.17	0.76	1.40	0.050	0.013	89	74
25-26	0830	1530	6520	40	--	--	0.15	0.86	1.30	0.100	0.018	79	56
26-27	1630	2330	8610	85	--	--	0.16	1.1	1.30	0.100	0.024	57	41
28-29	0030	0730	12400	130	242	15	0.15	1.4	1.30	0.200	0.027	45	34
29-30	0805	0705	13800	110	--	--	0.14	1.3	1.20	0.310	0.026	43	31
30-31	0805	0905	15800	140	--	--	0.12	1.3	1.20	0.320	0.024	31	28

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
APR													
01...	0825	--	18200	240	--	--	0.12	1.6	1.30	0.630	0.026	29	28
01-02	0830	1530	19000	130	--	--	0.08	1.2	1.20	0.280	0.020	30	31
02-03	1630	1930	19900	120	--	--	0.08	1.2	1.30	0.270	0.021	31	32
04...	1440	--	14800	71	--	--	0.06	0.76	1.30	0.210	0.023	30	37
04-05	1450	0350	13500	56	--	--	0.05	0.67	1.30	0.140	0.020	34	39
05-06	0855	0755	7480	50	--	--	0.04	0.69	0.66	0.110	0.015	38	42
06-07	0855	0755	10200	70	--	--	0.05	0.78	0.69	0.130	0.015	43	43
07-08	0855	0755	11500	160	--	--	0.08	0.93	1.10	0.180	0.012	29	34
08-09	0805	0705	11800	160	226	18	0.05	0.77	0.47	0.290	0.012	29	33
09-10	0805	0705	11800	190	202	16	0.05	0.77	1.00	0.240	0.011	26	31
10-11	0805	0705	11500	150	176	14	0.06	0.76	1.00	0.210	0.012	27	32
11-12	0805	0705	11500	130	173	<17	0.06	0.73	1.10	0.230	0.014	30	33
12-13	0745	0645	11100	120	27	12	0.06	0.65	N0.94	0.120	0.016	28	33
13-14	0745	0645	11000	130	106	<11	0.06	0.61	N1.10	0.120	0.014	30	33
14-15	0745	0645	10400	130	94	<12	0.06	0.61	N1.10	0.180	0.016	27	33
15-16	0740	0640	8790	140	56	<11	0.05	0.68	1.00	0.180	0.010	27	33
16-17	0740	0640	10000	140	150	12	0.05	0.69	0.99	0.090	0.012	26	32
17-18	0740	0640	10600	130	158	13	0.05	0.64	0.96	0.200	0.012	27	33
18-19	0740	0640	10700	170	198	16	0.05	0.83	0.78	0.260	0.013	23	33
19-20	0830	0730	10400	100	145	10	0.06	0.64	0.90	0.140	N0.017	28	34
20-21	0830	0730	9980	95	115	<10	0.05	0.48	0.96	0.130	0.010	27	34
21-22	0830	0730	9530	95	77	<10	0.05	0.64	0.99	0.130	0.011	28	36
22-23	0755	0655	10400	100	--	--	0.05	0.60	1.00	0.160	0.012	26	32
23-24	0755	0655	11100	100	--	--	0.05	0.58	0.98	0.160	0.012	26	29
24-25	0755	0655	10400	95	--	--	0.05	--	0.94	0.160	0.012	28	31
25-26	0755	0655	9420	90	--	--	0.05	0.60	0.93	0.120	0.011	28	32
26-27	0920	0820	8380	75	--	--	0.02	0.51	0.90	0.095	0.007	27	33
27-28	0920	0820	8990	140	167	14	0.03	0.70	0.85	0.180	0.009	13	30
28-29	0920	0820	9230	80	--	--	0.04	0.55	0.88	0.100	0.008	26	30
29-30	0820	0720	9930	70	100	8	<0.01	--	0.85	0.120	0.003	29	32
APR 30-													
MAY 01	0820	0720	10000	80	117	6	0.05	--	0.87	0.110	0.005	27	31
01-02	0820	0720	9550	75	97	7	0.04	--	0.84	0.095	0.008	26	30
02-03	0820	0720	9360	75	96	6	0.04	--	0.82	0.095	0.008	13	29
03-04	0815	0715	9150	75	95	7	0.01	0.43	0.85	0.085	0.003	24	28
04-05	0815	0715	9300	75	92	7	0.02	0.48	0.82	0.110	0.013	26	30
05-06	0815	0715	9310	75	91	7	0.04	0.51	0.70	0.100	0.002	25	32
06-07	0800	0700	9100	75	--	--	0.04	--	0.78	0.100	0.010	26	34
07-08	0800	0700	9110	80	--	--	0.03	--	0.76	0.120	0.009	28	34
08-09	0800	0700	9060	80	--	--	0.03	--	0.75	0.100	0.010	28	33
09-10	0800	0700	8950	70	--	--	0.02	--	0.78	0.110	0.009	27	34
10-11	0755	0655	8560	55	72	<5	0.04	0.48	0.75	0.090	0.009	27	34
11-12	0755	0655	8720	55	78	<5	0.04	0.58	0.77	0.100	0.009	25	33
12-13	0755	0655	8510	55	79	<5	0.04	0.65	0.78	0.085	0.007	26	33
13-14	0805	0705	7580	34	51	<5	0.05	0.39	0.76	0.090	0.008	30	37
14-15	0805	0705	6690	28	--	--	0.06	0.38	0.69	0.065	0.008	30	39
15-16	0805	0705	5100	31	48	<5	0.08	0.49	0.71	0.065	0.008	33	45
16-17	0805	0705	3300	24	--	--	0.07	0.48	0.75	0.060	0.009	36	53
17-18	0900	2000	2240	16	--	--	<0.01	<0.10	0.78	0.050	0.012	41	60
18-20	2100	0800	2020	15	--	--	<0.01	<0.10	0.90	0.050	0.015	46	80
20-22	0820	0720	1400	13	--	--	<0.01	0.66	1.00	0.055	0.019	65	--
22-24	0820	0720	1300	8.4	--	--	<0.01	0.64	1.00	0.050	0.018	83	--
24-26	0840	0740	1100	N14	--	--	<0.01	<0.10	1.10	0.055	0.015	83	100
26-27	0840	2340	1050	N11	--	--	<0.01	<0.10	1.00	0.055	0.016	75	98
28-30	0855	0755	930	8.5	--	--	<0.01	<0.10	1.10	0.050	0.009	83	99
MAY 30-													
JUN 01	0855	0755	840	9.1	--	--	<0.01	<0.10	0.98	0.060	0.006	68	92
01-03	1015	0915	1000	6.5	--	--	<0.01	N0.54	0.94	0.035	0.005	87	98
03-03	1030	2330	1100	7.4	--	--	<0.01	0.57	0.90	0.040	0.006	94	110
07...	0800	--	1100	8.2	--	--	<0.01	N0.72	0.99	0.050	0.013	79	96
07-08	0805	1905	1100	14	--	--	<0.01	0.60	1.00	0.070	0.014	80	--
08-10	2005	0705	1200	14	--	--	<0.01	0.67	1.00	0.065	0.014	96	--
10-12	0805	0705	1400	7.2	--	--	0.18	0.69	1.10	0.040	0.016	95	110
12-14	0805	0705	1100	7.2	--	--	0.11	0.63	1.00	0.060	0.018	89	98

431510077363501 Genesee River at Charlotte Pump Station Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued													
JUN--continued													
14-17	0815	0715	650	7.8	--	--	0.07	0.63	0.91	0.060	0.017	70	88
17-21	0825	0725	550	5.8	--	--	0.11	0.69	0.87	0.045	0.011	78	100
21-24	0815	0715	550	6.8	--	--	0.17	0.79	0.91	0.060	0.019	80	110
24-25	0745	1845	510	4.1	--	--	0.12	0.71	1.00	0.055	0.024	99	110
28...	0840	--	440	5.8	--	--	0.14	0.63	0.84	0.045	0.012	67	92
28-29	1330	0830	500	5.3	--	--	0.13	0.67	0.90	0.075	0.015	69	91
JUN 30-													
JUL 01	0800	2300	580	6.5	--	--	0.16	0.79	0.97	0.070	0.017	87	110
02...	0820	--	500	4.5	--	--	0.07	0.67	0.86	0.060	0.011	82	110
02-06	0830	0730	400	4.0	--	--	0.15	0.80	0.91	0.055	0.008	100	120
06-08	0835	0835	390	3.5	--	--	0.04	0.64	0.66	0.045	0.007	87	82
08-12	0850	0750	360	4.4	--	--	0.06	0.71	0.62	0.050	0.004	81	100
12-15	0835	0735	320	5.5	--	--	0.09	0.73	0.58	0.055	0.011	80	98
15-19	0835	0735	290	8.8	--	--	0.24	1.0	0.74	0.075	0.018	92	96
19-20	0815	0715	310	8.0	--	--	0.20	1.0	N0.65	0.065	0.020	100	N92
20-21	0815	0715	320	8.6	--	--	0.16	1.1	N0.64	0.085	0.020	110	N95
21-22	0815	0715	310	9.4	--	--	0.20	0.96	N0.62	0.070	0.022	110	N93
22-24	0815	0715	300	7.2	--	--	0.24	1.0	0.71	0.070	0.013	94	N100
24-26	0815	0715	270	7.4	--	--	0.22	0.92	0.74	0.065	0.013	87	N99
26-27	0750	1850	450	5.8	--	--	0.19	0.93	<0.01	0.065	0.014	93	110
27-29	1950	0650	600	6.4	--	--	0.17	0.87	<0.01	0.065	0.013	89	110
29-31	0750	0650	370	6.5	--	--	0.26	N0.71	0.75	0.060	0.022	110	110
JUL 31-													
AUG 02	0750	0650	400	7.0	--	--	0.39	N0.71	0.74	0.060	0.022	110	110
05-07	0825	0725	400	9.5	--	--	0.29	0.73	N0.92	0.070	0.014	95	110
07-09	0825	0725	310	8.5	--	--	0.29	1.0	N1.10	0.070	0.011	120	120
09-10	0815	1915	330	9.2	--	--	0.15	0.94	N0.87	0.070	0.012	120	120
10-12	2015	0715	330	4.9	--	--	0.09	0.94	N0.82	0.070	0.015	120	110
12-14	0835	0735	340	3.3	--	--	0.06	0.69	0.89	0.055	0.003	100	100
14-16	0835	0735	280	3.8	--	--	0.15	0.76	0.87	0.040	0.006	86	110
16-17	0815	1915	340	3.6	--	--	0.14	0.89	0.74	0.060	0.018	86	110
17-19	2015	0715	600	4.0	--	--	0.21	1.2	0.90	0.075	0.028	96	120
19-23	0840	0740	600	12	--	--	0.20	N1.1	0.70	0.065	0.018	120	110
23-26	1440	0940	385	3.4	--	--	0.15	N1.3	--	0.050	0.020	140	100
26-28	0950	0850	290	2.6	--	--	0.20	N1.1	--	0.060	0.016	120	93
28-30	0950	0850	250	0.25	--	--	0.20	--	--	0.050	0.029	120	86
AUG 31-													
SEP 01	0910	0810	290	3.2	--	--	0.00	0.86	--	0.045	0.030	99	85
01-03	0910	0810	310	4.3	--	--	0.00	0.96	--	0.050	0.028	89	94
03-04	0950	1650	420	4.2	--	--	0.24	1.0	0.74	0.055	0.030	86	98
04-06	1750	0050	1580	3.6	--	--	0.29	0.96	0.77	0.055	0.033	110	97
06-07	0150	0850	1650	6.5	--	--	0.12	N0.93	0.64	0.065	0.026	180	110
07-08	1110	1010	945	6.6	--	--	0.11	0.50	0.63	0.010	0.028	75	N73
08-09	1110	0910	720	9.9	--	--	N0.10	0.44	0.64	0.055	0.029	49	N71
09-10	1005	1705	620	4.2	--	--	N0.11	0.39	0.77	0.055	0.030	47	N51
10-12	1805	0105	600	4.7	--	--	0.17	0.50	0.93	0.065	0.034	49	N76
12-13	0205	0905	620	3.6	--	--	0.21	0.60	0.78	0.060	0.034	51	N77
13-14	0950	2050	550	4.6	--	--	0.08	0.57	0.74	0.060	0.030	60	89
14-16	2150	0850	450	5.5	--	--	0.09	0.71	0.80	0.060	0.028	95	96
16-18	1010	0910	370	3.2	--	--	0.12	0.92	0.88	0.045	0.024	110	N160
18-20	1010	0910	350	3.6	--	--	0.12	0.91	0.83	0.050	0.022	90	100
20-21	1010	2110	340	N3.5	--	--	0.08	0.70	0.65	0.045	0.018	110	100
22-23	2210	0910	320	3.6	--	--	0.06	0.68	0.62	0.040	0.015	110	97
23-25	1115	1015	310	3.6	--	--	0.14	0.71	0.79	0.040	0.016	100	110
27-28	0955	2055	450	3.5	--	--	0.11	0.60	0.70	0.045	0.017	88	98
28-30	2155	0855	1140	4.0	--	--	0.21	0.82	0.85	0.045	0.021	110	100
30-30	0950	2355	1620	3.9	--	--	0.16	0.84	0.78	0.050	0.027	160	120

430449077294201 Cartersville Waste Channel at Pittsford, N.Y.

LOCATION.--Lat 43°04'49", long 77°29'42", Hydrologic Unit 04140101, at Marsh road, 0.1 mi south of New York State Highway 31 and 0.25 mi north of Erie canal.
PERIOD OF RECORD.-- December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-91 (d), 1992 (c), 1993 (b).
NUTRIENT DATA: 1984-86 (a), 1988-91 (d), 1992 (c), 1993 (b).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	0900	--	25	--	36	6	0.05	0.89	0.39	0.040	0.014	87	84
13...	1050	--	8.6	--	19	3	0.04	0.51	0.51	0.050	0.019	120	78
20...	1050	--	2.9	--	6	1	0.01	0.35	0.55	0.045	0.014	57	75
27...	1030	1.4	7.8	--	8	1	0.04	0.49	0.47	0.060	0.022	89	76
JAN													
31...	1050	--	28	--	--	--	0.09	1.2	0.91	0.090	0.011	270	160
FEB													
21...	0900	--	80	13.5	116	16	0.10	2.1	0.94	0.340	0.100	260	84
MAR													
20...	1100	--	26	13.2	--	--	0.13	1.3	1.20	0.145	0.018	270	100
30...	0950	--	14	12.3	--	--	0.02	1.1	0.50	0.110	0.005	200	160
APR													
03...	1030	--	16	--	--	--	0.11	1.8	2.50	0.210	0.110	140	70
26...	1130	--	16	--	25	<5	0.06	0.64	1.10	0.075	0.006	83	94
JUN													
28...	1050	5.7	23	--	48	7	0.08	1.3	1.10	0.170	0.058	40	45
JUL													
21...	1130	--	10	--	--	--	0.03	0.72	0.81	0.085	0.005	90	99
AUG													
18...	0950	--	16	--	36	5	0.03	0.64	0.39	0.070	0.008	86	92
SEP													
01...	0950	--	22	--	48	7	0.06	0.78	0.57	0.140	0.023	71	99
13...	0950	--	18	--	--	--	0.10	0.61	0.57	0.105	0.026	64	91
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	1050	7.4	9.5	--	25	4	0.02	0.86	0.30	0.065	0.009	92	88
27...	1050	--	50	--	52	5	0.06	0.60	0.77	0.105	0.017	63	55
MAY													
08...	1050	--	15	--	29	<5	0.02	0.74	1.10	0.070	0.006	91	78
23...	1100	--	12	--	21	<5	0.03	0.87	0.86	0.080	0.026	64	48
JUN													
15...	0900	--	6.2	7.8	12	<5	0.05	0.57	0.99	0.040	0.005	91	90
29...	1050	--	20	--	23	<5	0.04	0.58	0.84	0.095	0.026	99	83
JUL													
13...	1130	--	17	7.9	27	<5	0.15	0.80	0.80	0.070	<0.001	96	180
20...	0950	--	55	--	137	43	0.90	3.9	2.20	0.570	0.210	25	40
25...	0950	--	9.3	7.2	25	<5	0.06	0.54	0.61	0.075	0.025	96	87
AUG													
08...	1130	--	7.5	7.7	27	<6	0.83	0.83	0.45	0.080	0.315	80	88
24...	1130	--	14	--	24	<5	<0.01	0.31	0.66	0.070	0.030	64	93
SEP													
07...	0950	--	14	--	26	5	0.04	0.51	0.50	0.080	0.036	65	64
21...	1130	--	--	--	--	--	0.05	0.03	0.53	0.029	0.007	82	53
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
09...	0950	--	--	--	12	<5	0.05	0.62	0.63	0.070	0.030	190	55
24...	0950	--	23	--	22	<5	0.04	0.43	0.95	0.065	0.021	40	31
31...	1050	--	18	--	17	<5	0.04	0.43	0.83	0.045	0.016	51	35

430449077294201 Cartersville Waste Channel at Pittsford, N.Y. - continued

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
NOV													
13...	1030	--	9.0	--	--	--	0.18	0.70	1.10	0.080	0.027	110	65
15...	1130	--	30	--	--	--	0.30	0.77	0.90	0.120	0.026	98	60
29...	0950	--	73	--	--	--	0.44	1.6	1.30	0.170	0.036	150	110
MAY													
03...	1030	3.1	22	11.1	32	<5	0.03	0.61	0.85	0.080	N0.001	41	47
JUN													
10...	0900	--	11	8.7	25	3	0.02	0.57	0.69	0.055	0.011	84	91
JUL													
19...	1030	--	14	--	28	3	0.02	0.62	0.58	0.065	0.018	79	92
AUG													
21...	0950	--	7.6	--	17	2	0.02	0.42	0.43	0.060	0.032	87	80
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
MAY													
21...	1130	6.8	8.5	8.7	21	3	0.07	0.50	0.92	0.050	0.011	41	93
JUN													
04...	1130	--	14	8.7	22	3	0.04	0.48	0.54	0.065	0.017	77	120
24...	1100	--	38	8.3	94	15	0.12	0.87	0.67	0.115	0.028	65	82
JUL													
08...	1030	6.6	16	7.9	32	3	0.05	0.51	0.66	0.065	0.017	--	120
22...	1130	--	18	7.6	34	4	0.10	0.85	0.31	N0.001	0.066	59	52
AUG													
12...	0950	--	18	8.4	29	4	0.02	0.43	0.31	0.090	0.025	45	44
26...	0900	8.3	11	8.0	18	2	<0.01	0.42	0.68	0.050	0.019	72	N94
SEP 1992													
09...	1050	7.4	11	8.3	19	2	0.030	0. 6	1.00	0.070	0.041	64	79
30...	1050	7.1	16	9.8	18	2	0.04	0.44	0.59	0.065	0.031	51	48
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
MAY													
05...	1030	15	25	10.1	30	4	<0.01	0.58	0.68	0.068	0.002	50	48
19...	0950	14	16	9.6	18	3	0.03	4.3	0.59	0.055	0.009	39	43
JUN													
02...	1100	11	N9.0	9.1	--	--	N0.01	N0.01	N0.01	0.050	0.009	86	110
23...	1030	11	N16	7.5	23	3	0.12	0.79	0.93	0.090	0.039	70	100
SEP													
15...	1130	7.8	5.4	8.1	9	<1	0.03	0.48	N0.01	N0.120	0.040	N67	82

430526077315201 East Branch Allen Creek Above Erie Canal Siphon near Pittsford, N.Y.

LOCATION.--Lat 43°05′26", long 77°31′52", Hydrologic Unit 04140101, at North bank of Erie Canal, 0.5 mi west of State Highway 31.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-92 (c), 1993 (a).
NUTRIENT DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-92 (c), 1993 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	0950	--	11	--	14	2	<0.01	0.58	0.15	0.060	0.031	94	59
13...	1130	--	8.3	--	13	3	<0.01	0.37	0.08	0.040	0.016	100	62
20...	1130	--	3.7	--	7	<1	<0.01	0.41	0.07	0.050	0.019	100	64
27...	1130	0.80	4.2	--	7	<2	<0.01	0.59	1.48	0.060	0.021	120	66
JUN													
28...	0900	1.4	3.5	--	8	<5	0.02	1.3	2.80	0.070	0.031	100	50
JUL													
21...	1030	--	5.4	--	--	--	0.02	0.43	0.27	0.090	0.034	110	71
AUG													
18...	0950	--	17	--	19	3	0.18	0.68	0.16	0.075	0.016	61	37
SEP													
01...	1130	--	9.1	--	11	3	0.11	0.58	0.15	0.080	0.020	57	47
13...	1130	--	20	--	--	--	0.33	0.73	0.11	0.120	0.012	54	35
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	1100	0.50	1.5	--	4	<2	0.01	0.37	0.01	0.055	0.022	120	98
27...	0900	--	2.2	--	3	<2	0.02	0.26	0.12	0.030	0.012	110	97
JUN													
15...	1130	--	4.4	8.0	8	<5	0.04	0.84	0.74	0.085	0.052	110	110
29...	1130	--	4.8	8.2	<5	<5	0.02	0.70	0.39	0.065	0.032	100	83
JUL													
06...	1030	--	4.2	8.6	<5	<5	0.03	N0.01	0.59	0.050	N0.001	80	54
13...	1050	--	27	9.4	<5	<5	0.08	0.68	0.28	0.055	N0.001	100	170
20...	1130	--	290	--	590	90	0.15	3.0	0.85	0.770	0.057	41	37
25...	1030	--	2.4	8.7	<5	<5	0.05	0.51	0.18	0.080	0.032	96	88
AUG													
01...	1100	--	<5.0	9.0	<5	9	0.06	0.04	0.12	0.040	0.003	100	95
08...	0950	--	2.8	8.7	<5	<5	0.77	0.77	0.32	0.070	0.045	100	100
17...	0950	--	3.3	5.0	5	<5	0.45	0.45	0.21	0.050	0.024	95	88
24...	1130	--	2.3	5.0	<5	<5	<0.01	0.59	0.04	0.040	0.024	110	100
30...	0950	--	2.0	--	<5	<5	N0.01	0.37	0.07	0.045	0.023	88	78
SEP													
21...	1050	--	--	--	--	--	0.04	0.02	0.04	0.019	0.001	100	110
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
09...	1050	--	--	--	12	<5	<0.01	0.46	0.16	0.085	0.037	94	60
JUN													
10...	1100	--	5.2	9.3	10	2	0.04	0.69	0.57	0.060	0.025	100	64
19...	1130	0.80	7.0	8.7	9	<5	<0.01	0.66	0.72	0.075	0.037	92	68
JUL													
10...	0950	--	4.7	--	62	1	0.02	0.67	0.18	0.090	0.045	110	120
19...	1130	--	5.2	--	--	--	0.04	1.2	0.09	0.060	0.030	110	110
25...	1050	--	4.0	--	7	2	0.03	0.65	0.20	0.075	0.048	110	96
AUG													
21...	1030	--	13	--	18	4	0.01	0.69	0.38	0.085	0.021	36	36
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
MAY													
21...	1130	1.2	2.5	9.9	3	<2	0.03	0.95	0.91	0.035	0.008	110	76
27...	1130	1.0	4.6	9.4	8	<5	0.08	0.68	1.50	0.050	0.010	83	84

430526077315201 East Branch Allen Creek Above Erie Canal Siphon near Pittsford, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
JUN													
04...	1050	--	4.4	8.9	6	<2	0.05	0.83	1.10	0.060	0.028	99	82
10...	1050	--	7.3	--	12	4	0.06	1.0	1.70	0.065	0.032	100	66
24...	0950	--	26	8.1	133	14	0.05	1.3	1.20	0.145	0.030	350	34
JUL													
08...	0950	0.10	6.6	7.2	5	<1	0.08	0.53	0.39	0.055	0.024	55	55
SEP													
15...	1130	0.50	--	9.7	4	<1	0.02	0.44	2.10	0.050	0.029	80	54
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
SEP													
15...	0950	0.50	7.8	7.5	9	2	0.04	1.1	N0.01	0.060	0.028	120	81

430526077315202 East Branch Allen Creek Below Erie Canal Siphon Near Pittsford, N.Y.

LOCATION.--Lat 43°05'26", long 77°31'52", Hydrologic Unit 04140101, at North bank of Erie Canal, 0.5 mi west of State Highway 31.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86(a), 1988-89 (c), 1990 (d), 1991-92 (2), 1993 (a).
NUTRIENT DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-92 (2), 1993 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	1130	--	14	--	22	3	0.06	0.69	0.31	0.045	0.009	98	73
13...	1130	--	18	--	33	4	0.11	0.61	0.42	0.060	0.018	140	72
20...	1130	--	5.5	--	17	2	0.05	0.45	0.42	0.065	0.015	68	64
27...	1130	3.2	8.8	--	12	2	0.06	0.81	0.83	0.085	0.023	120	79
JUN													
28...	1100	2.3	17	--	25	<5	0.03	1.0	2.40	0.095	0.038	86	48
AUG													
18...	1130	--	18	--	33	5	0.02	0.61	0.52	0.080	0.005	93	98
SEP													
01...	1050	--	25	--	50	6	0.09	0.86	0.54	0.130	0.011	80	100
13...	1050	--	20	--	--	--	0.15	0.69	0.47	0.115	0.022	61	80
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	0950	2.3	6.4	--	22	3	0.02	0.35	0.25	0.060	0.009	100	78
JUN													
15...	0950	--	6.7	8.4	13	<5	<0.01	0.79	1.00	0.060	0.007	98	96
29...	0950	--	19	8.1	16	<5	0.04	0.88	0.66	0.075	0.027	90	80
JUL													
06...	0950	--	12	9.2	92	14	0.02	N0.01	0.76	0.065	N0.001	97	94
13...	1100	--	10	8.5	15	<5	0.14	0.86	0.54	0.055	N0.001	87	140
20...	0900	--	230	--	422	64	0.09	2.4	0.83	0.550	0.046	43	42
25...	0950	--	11	8.1	48	7	0.04	0.69	0.49	0.100	0.015	98	87
AUG													
01...	1030	--	48	8.1	8	8	0.13	0.03	0.42	0.012	0.022	90	81
08...	1130	--	2.6	8.7	12	<5	0.44	0.44	0.31	0.080	0.046	100	100
17...	0950	--	18	8.0	26	<5	N0.01	0.58	0.55	0.073	0.020	74	110
24...	1050	--	12	--	20	<5	N0.01	0.42	0.50	0.065	0.024	74	98
30...	1130	--	8.0	--	15	<5	N0.01	N0.01	0.58	0.055	0.020	76	78
SEP													
21...	0900	--	--	--	--	--	0.06	0.06	0.41	0.027	0.009	96	70
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
09...	1130	--	--	--	15	<5	0.01	0.43	0.27	0.070	0.030	120	56
JUN													
10...	0950	--	9.7	8.9	3	<2	<0.01	0.56	0.80	0.070	0.005	83	88
19...	0900	3.2	--	8.3	24	<6	0.02	0.56	0.68	0.075	0.017	74	86
JUL													
10...	1130	--	16	--	--	--	0.03	0.50	0.40	0.100	0.024	85	110
19...	1130	--	14	--	24	3	0.05	0.59	0.43	0.070	0.016	86	90
25...	0900	--	10	--	19	3	0.06	0.73	0.38	0.070	0.025	69	74
AUG													
21...	1130	--	7.7	--	18	3	0.05	0.50	0.43	0.065	0.030	70	75
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
MAY													
21...	0950	1.6	4.7	9.4	9	2	0.04	0.73	0.94	0.035	0.007	100	85
27...	1030	3.4	7.3	9.1	12	<5	0.07	0.54	1.00	0.035	0.006	58	55
JUN													
04...	0900	--	4.6	8.7	7	1	0.05	0.86	1.00	0.060	0.027	97	87
24...	1130	--	28	7.9	N58	11	0.07	1.4	1.10	0.133	0.026	290	N48

430526077315202 East Branch Allen Creek Below Erie Canal Siphon Near Pittsford, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
JUL													
14...	0950	--	60	7.6	77	9	0.04	0.93	1.10	0.180	0.040	55	39
22...	0950	2.0	4.6	9.0	9	1	0.03	0.94	3.40	N0.001	0.049	82	41
AUG													
12...	1030	--	3.3	8.9	5	2	<0.01	0.66	2.50	0.070	0.047	83	45
SEP													
15...	1030	2.3	--	9.6	16	3	<0.01	0.56	1.10	0.070	0.022	72	65
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
SEP													
15...	1130	3.2	8.8	8.2	13	2	0.04	0.55	N0.01	0.060	0.038	96	88

430526077315203 East Branch Allen Creek Erie Canal Siphon Near Pittsford, N.Y.

LOCATION.--Lat 43°05′26", long 77°31′52", Hydrologic Unit 04140101, at North bank of Erie Canal, 0.5 mi west of State Highway 31.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-92 (c), 1993 (a).
NUTRIENT DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-92 (c), 1993 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	1030	--	13	--	21	3	0.06	0.69	0.39	0.040	0.004	100	77
13...	0950	--	19	--	36	4	0.14	1.0	0.52	0.080	0.018	150	72
20...	0950	--	7.1	--	18	2	0.06	0.40	0.49	0.070	0.014	59	64
27...	0950	2.3	10	--	14	2	0.10	0.80	0.46	0.075	0.023	130	86
JUN													
28...	0950	--	60	--	76	8	0.06	0.98	0.94	0.185	0.044	37	42
JUL													
21...	1130	--	11	--	--	--	<0.01	0.69	0.75	0.085	0.003	83	93
AUG													
18...	1030	--	24	--	49	6	0.04	0.67	0.55	0.090	0.003	94	99
SEP													
01...	0900	--	27	--	60	7	0.09	0.94	0.55	0.130	0.009	81	110
13...	0900	--	20	--	--	--	0.15	0.69	0.48	0.105	0.020	61	82
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	0900	1.8	14	--	35	4	0.02	0.46	0.40	0.070	0.010	93	82
JUN													
15...	1050	--	5.1	9.2	12	<5	0.01	0.67	0.92	0.040	0.003	91	88
29...	1130	--	19	9.0	10	<5	0.03	0.70	0.79	0.075	0.013	85	79
JUL													
06...	1130	--	11	9.7	21	<5	0.02	N0.01	0.80	0.060	N0.00	100	100
13...	0900	--	11	8.2	16	<5	0.17	0.65	0.60	0.045	N0.00	74	140
13...	1030	--	13	8.6	21	<5	0.16	0.75	0.51	0.060	N0.00	84	130
20...	1050	--	20	--	29	<5	0.03	0.58	0.79	0.200	0.005	73	74
25...	1130	--	20	7.8	42	7	0.05	0.74	0.59	0.090	0.009	100	84
AUG													
01...	0950	--	39	8.2	6	8	0.09	0.03	0.54	0.007	0.020	87	80
17...	1130	--	35	5.0	103	11	0.84	0.84	0.69	0.150	0.018	64	120
24...	0900	--	16	--	27	<5	N0.00	0.47	0.69	0.080	0.024	62	94
30...	1050	--	9.0	--	19	<5	N0.00	0.44	0.73	0.055	0.020	73	92
SEP													
21...	1100	--	17	--	--	--	0.09	0.76	0.56	0.080	0.029	67	50
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
09...	0900	--	--	--	14	<5	0.06	0.60	0.49	0.040	0.024	160	45
JUN													
10...	1030	--	11	9.5	34	4	<0.01	0.74	0.85	0.075	0.004	72	90
19...	1100	2.4	--	9.2	23	<5	<0.01	0.64	0.67	0.075	0.009	64	98
JUL													
10...	1050	--	23	--	36	4	0.02	0.58	0.52	0.085	0.009	66	110
19...	0950	--	13	--	35	3	0.08	0.88	0.47	0.065	0.008	74	82
25...	1100	--	13	--	27	4	0.07	0.60	0.45	0.065	0.019	59	68
AUG													
21...	0950	--	9.6	--	18	3	0.05	0.66	0.41	0.060	0.031	75	74
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
MAY													
21...	1050	0.40	10	N9.8	15	2	0.02	0.54	0.96	0.035	0.006	89	100
27...	0950	2.4	11	8.8	17	<5	0.06	0.57	0.78	0.035	0.005	46	110

430526077315203 East Branch Allen Creek Erie Canal Siphon Near Pittsford, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
JUN													
04...	1100	--	7.2	10.7	11	2	0.05	0.48	0.84	0.040	0.007	76	110
24...	1130	--	18	8.7	34	4	0.09	0.80	0.67	0.060	0.015	86	98
JUL													
08...	1130	2.6	14	8.4	24	2	0.06	0.62	0.63	0.055	0.006	--	120
SEP													
15...	0950	1.8	18	10.6	3	--	0.07	0.03	0.70	0.022	N0.001	66	70
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
SEP													
15...	1050	2.7	9.1	7.8	15	2	0.05	0.54	N0.01	0.060	0.038	91	88

430557077344402 Allen Creek Below Erie Canal Siphon Near Rochester, N.Y.

LOCATION.--Lat 43°05'57", long 77°34'44", Hydrologic Unit 04140101, at north bank of Erie Canal, 0.01 mi east of Winton Road.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-93 (c).
NUTRIENT DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-93 (c).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	1100	6.1	13	--	23	3	0.15	1.0	0.38	0.045	0.013	100	71
13...	1030	--	16	--	34	4	0.09	0.59	0.51	0.065	0.019	87	58
20...	0950	--	6.8	--	13	2	0.10	0.65	0.42	0.060	0.015	75	69
27...	1100	--	8.5	--	10	2	0.09	0.76	0.46	0.055	0.018	110	69
JUN													
28...	1130	12	140	--	143	12	0.06	1.0	0.72	0.235	0.030	50	45
AUG													
18...	1030	--	20	--	--	--	0.16	0.88	0.44	0.090	0.004	100	98
SEP													
01...	0950	N2.3	22	--	58	12	0.16	2.0	0.52	0.155	0.047	95	70
13...	1130	--	15	--	--	--	0.08	0.99	0.33	0.085	0.014	100	82
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	0950	8.0	16	--	33	3	0.19	0.40	0.51	0.080	0.009	77	72
27...	1030	--	21	--	30	3	0.13	0.44	0.76	0.070	0.016	75	75
MAY													
04...	0950	--	16	--	--	--	0.10	0.83	0.98	0.055	0.002	110	73
24...	1030	--	18	--	18	<5	0.05	0.85	0.51	0.080	0.026	87	44
JUN													
15...	1030	--	8.0	9.4	18	6	0.02	0.78	0.94	0.060	0.003	95	82
29...	0950	--	34	9.2	60	7	0.04	0.78	0.71	0.105	0.024	73	76
JUL													
13...	1130	--	14	7.3	22	<5	0.15	0.73	0.51	0.015	N0.001	85	130
25...	0900	--	13	8.2	45	7	0.04	0.73	0.76	0.110	0.006	130	41
AUG													
08...	1100	--	15	7.1	26	<5	0.47	0.47	0.50	0.080	0.024	71	83
24...	0950	--	13	--	22	<5	N0.01	0.39	0.77	0.070	0.021	60	92
30...	0950	--	140	--	23	33	0.05	1.1	0.31	0.320	0.050	19	15
SEP													
21...	1030	--	11	--	--	--	0.08	0.52	0.48	0.065	0.027	65	53
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
24...	1030	--	31	--	31	<5	0.07	0.60	0.60	0.080	0.020	59	32
31...	0900	--	16	--	16	<5	0.04	0.44	0.84	0.045	0.014	58	35
MAY													
03...	0900	9.3	13	10.9	17	2	0.05	0.73	0.64	0.065	N0.001	73	47
16...	1050	--	6.2	--	16	3	N0.01	1.2	0.39	0.045	0.007	150	74
JUN													
14...	1050	--	7.1	--	27	4	0.02	0.80	0.30	0.060	0.004	120	80
14...	1130	--	5.5	--	7	2	0.04	0.85	0.26	0.035	0.009	170	50
JUL													
19...	0950	--	12	--	21	2	0.10	0.58	0.51	0.075	0.011	76	74
AUG													
21...	1050	--	12	--	18	4	0.03	0.62	0.33	0.065	0.020	77	57

430557077344402 Allen Creek Below Erie Canal Siphon Near Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
MAY													
21...	1100	--	8.5	9.1	15	3	0.03	0.80	0.81	0.045	0.002	130	89
JUN													
04...	1030	6.4	6.7	9.0	10	2	0.02	0.73	0.68	0.045	0.004	110	98
25...	0900	--	14	8.0	24	<5	0.10	1.1	0.69	0.075	0.010	140	78
JUL													
08...	1050	--	11	7.6	18	2	0.14	0.66	0.55	0.045	0.003	--	140
22...	1130	2.9	14	8.7	18	3	0.05	1.2	0.50	N0.001	0.023	120	46
AUG													
12...	1130	--	15	8.2	18	3	0.04	0.81	0.22	0.060	0.018	130	40
26...	0950	--	75	7.4	80	8	0.07	0.91	0.30	0.130	0.014	140	--
SEP													
09...	0900	1.3	15	9.6	15	2	0.03	0.80	0.44	0.060	0.016	130	56
30...	1130	--	25	10.8	27	4	0.03	0.71	0.47	0.060	0.014	120	49
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
MAY													
05...	1050	2.8	8.7	10.3	8	<3	0.01	0.85	0.25	0.035	<0.002	200	58
19...	1130	0.90	4.6	9.7	7	1	0.07	N0.01	0.36	0.030	0.004	200	74
JUN													
02...	0950	2.9	15	9.0	--	--	N0.01	N0.01	0.61	0.065	0.009	260	86
23...	1050	3.0	N16	6.2	19	3	0.16	0.94	N0.00	0.080	0.034	110	95
23...	1130	2.7	13	7.6	18	3	0.13	0.77	0.87	0.080	0.033	81	100
SEP													
15...	1100	2.7	12	8.1	20	<1	0.02	0.66	N0.01	0.075	0.019	90	78

430557077344403 Allen Creek At Erie Canal Siphon Near Rochester, N.Y.

LOCATION.--Lat 43°05′57", long 77°34′44", Hydrologic Unit 04140101, at north bank of Erie Canal, 0.01 mi east of Winton Road.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-93 (c).
NUTRIENT DATA: 1984-86 (a), 1988-89 (c), 1990 (d), 1991-93 (c).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	0900	4.6	15	--	24	3	0.18	1.2	0.43	0.055	0.019	100	75
13...	0950	--	14	--	33	4	0.12	0.63	0.54	0.035	0.022	85	61
20...	0950	--	6.8	--	11	2	0.11	0.56	0.44	0.070	0.018	68	78
27...	0900	--	8.3	--	10	2	0.10	0.74	0.49	0.050	0.023	100	71
JUN													
28...	0950	--	180	--	147	12	0.07	0.99	0.79	0.260	0.031	30	45
JUL													
21...	0900	--	13	--	--	--	0.02	0.76	0.82	0.095	0.004	82	100
AUG													
18...	0900	--	21	--	51	6	0.17	0.87	0.49	0.095	0.003	91	100
SEP													
01...	1030	--	20	--	38	5	0.10	0.80	0.53	0.110	0.005	85	100
13...	0950	--	21	--	--	--	0.13	0.59	0.53	0.065	0.018	64	95
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	1030	7.3	9.6	--	59	7	0.20	0.54	0.53	0.095	0.010	72	74
27...	0950	--	22	--	30	3	0.13	0.44	0.76	0.075	0.016	72	75
MAY													
04...	1130	--	18	--	30	<5	0.12	0.80	1.20	0.050	0.003	92	78
24...	1130	--	22	--	23	<5	0.06	0.91	0.56	0.095	0.038	56	52
JUN													
15...	0950	--	6.4	9.8	19	6	0.02	0.69	0.97	0.055	0.003	86	85
29...	1100	--	30	7.3	34	6	0.06	0.68	0.73	0.080	0.007	69	78
JUL													
25...	1050	--	14	6.2	44	<8	0.06	0.68	0.74	0.095	0.006	130	87
AUG													
08...	0900	--	18	6.8	25	<5	0.52	0.52	0.43	0.080	0.025	70	83
24...	1030	--	13	--	19	<5	N0.01	0.35	0.79	0.070	0.025	57	93
SEP													
07...	1030	--	10	--	21	4	0.26	0.66	0.51	0.070	0.033	71	70
21...	1130	--	11	--	--	--	0.09	1.0	0.50	0.060	0.030	60	54
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991													
OCT													
24...	0950	--	40	--	42	<5	0.07	0.56	0.70	0.090	0.020	43	32
31...	0950	--	16	--	18	<5	0.04	0.45	0.94	0.040	0.016	48	30
MAY													
03...	1100	7.1	14	9.3	22	<4	0.06	0.50	0.77	0.055	N0.00	42	45
16...	1130	--	12	--	21	3	N0.01	0.65	0.95	0.055	0.004	78	90
JUN													
14...	0950	--	8.2	--	24	3	0.07	0.67	0.90	0.055	0.004	110	94
JUL													
19...	1100	--	15	--	32	3	0.11	0.57	0.49	0.075	0.010	73	78
AUG													
21...	0950	--	12	--	N82	N10	N0.06	0.56	0.42	0.070	0.033	63	160
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
MAY													
21...	0950	--	8.0	--	14	4	0.01	0.69	0.93	0.035	0.003	100	100
JUN													
04...	1130	5.2	6.8	10.7	12	<8	0.01	0.54	0.90	0.045	0.004	60	110
25...	1100	--	14	--	28	<5	0.12	0.74	0.80	0.055	0.012	81	97

430557077344403 Allen Creek At Erie Canal Siphon Near Rochester, N.Y. -

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
JUL													
08...	1100	--	14	--	26	3	0.12	0.85	0.84	0.050	0.003	--	140
22...	0900	0.50	35	6.4	35	3	0.11	0.87	1.40	0.110	0.037	97	58
AUG													
12...	1130	--	24	7.9	38	4	0.03	0.45	0.66	0.090	0.023	44	37
26...	1030	--	18	10.4	28	3	0.04	0.56	0.72	0.085	0.020	71	N95
SEP													
09...	0950	0.10	16	9.2	25	3	0.03	0.56	0.82	0.090	0.035	62	80
30...	0950	--	25	9.7	32	3	0.07	0.45	0.85	0.075	0.026	46	45
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
MAY													
05...	1100	0.40	30	12.8	19	<3	<0.01	0.42	0.51	0.045	0.002	48	48
19...	0900	0.40	6.6	11.5	8	<2	0.01	N0.01	0.53	0.035	0.002	47	57
JUN													
02...	1050	1.7	9.6	9.0	--	--	N0.01	N0.01	0.93	0.050	0.006	170	110
23...	1100	2.5	N15	--	20	3	0.16	0.83	1.40	0.085	0.036	83	98
23...	1130	2.1	N14	7.4	18	3	0.16	0.91	0.84	0.080	0.029	75	120
SEP													
15...	0950	2.2	11	--	18	2	<0.01	0.49	N0.01	0.060	0.023	78	82

430605077262201 Fairport Waste Channel At Fairport, N.Y.

LOCATION.--Lat 43°06′05", long 77°26′22", Hydrologic Unit 04140101, at State Street, 0.15 mi east of New York State Highway 250, and 0.05 mi north of Erie canal.
PERIOD OF RECORD.-- December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-89 (d), 1990 (c), 1992-93 (c).
NUTRIENT DATA: 1984-86 (a), 1988-89 (d), 1990 (c), 1992-93 (c).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (mg/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L)	RESIDUE VOLA-TILE, SUS-PENDED (mg/L)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989													
OCT													
06...	1130	--	11	--	16	3	0.03	0.56	0.39	0.040	0.006	82	77
13...	0900	--	11	--	18	3	0.01	0.59	0.47	0.050	0.009	80	81
20...	0900	--	6.4	--	21	3	<0.01	0.54	0.50	0.075	0.004	77	65
27...	0950	--	12	--	18	2	0.11	0.89	0.48	0.060	0.015	110	74
APR													
26...	0950	--	45	--	62	8	0.07	0.88	0.96	0.130	0.018	120	110
JUN													
28...	1130	--	7.9	--	16	7	0.10	1.5	0.69	0.120	0.017	49	45
JUL													
21...	0950	--	12	--	--	--	0.02	0.91	0.70	0.085	0.004	75	93
AUG													
18...	1130	--	15	--	21	3	0.01	0.70	0.44	0.065	0.011	72	89
SEP													
01...	1130	--	14	--	20	4	0.07	1.0	0.53	0.080	0.019	70	69
13...	1100	--	12	--	--	--	0.08	0.60	0.41	0.085	0.020	70	100
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990													
OCT													
05...	1130	--	7.5	--	25	8	0.02	0.52	0.34	0.055	0.012	80	90
27...	1130	--	6.9	--	10	3	0.08	0.37	0.56	0.065	0.025	85	93
MAY													
23...	0900	--	4.1	--	6	<5	0.03	0.60	0.86	0.050	0.013	85	68
JUL													
25...	1100	--	20	5.7	36	10	0.08	1.0	0.55	0.160	0.016	91	86
AUG													
30...	0900	--	5.4	--	7	<5	N0.01	0.60	0.55	0.040	0.037	82	90
SEP													
07...	1130	--	7.3	--	11	3	0.08	0.50	0.57	0.065	0.039	61	64
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992													
OCT													
24...	1100	--	25	--	17	<5	0.06	0.53	0.71	0.070	0.021	45	30
MAY													
21...	1030	3.0	6.2	6.8	8	<2	0.10	0.51	0.79	0.045	0.016	51	85
JUN													
24...	0900	--	5.4	4.5	7	3	0.18	0.80	0.72	0.070	0.040	88	90
JUL													
08...	0950	--	3.0	3.7	10	4	0.10	0.72	0.37	0.060	0.027	--	120
22...	1030	--	2.2	3.7	2	<2	0.12	0.64	0.55	N0.00	0.043	100	100
AUG													
12...	1100	--	2.0	4.3	3	<1	0.07	0.43	0.51	0.065	0.039	75	73
26...	1050	--	2.7	5.7	6	2	0.03	0.59	0.55	0.060	0.028	79	N92
SEP													
09...	1130	--	1.7	11.2	4	2	0.04	0.39	0.38	0.070	0.034	94	110
30...	1130	2.1	21	6.5	2	<1	0.03	0.33	0.62	0.045	0.025	86	96
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993													
MAY													
05...	0900	2.4	4.6	10.5	4	<3	0.01	0.94	0.27	0.040	0.002	260	55
05...	0950	--	4.6	7.3	6	4	<0.01	1.0	0.06	0.100	0.003	180	210
19...	1130	0.20	12	7.4	21	11	0.17	1.6	0.41	0.170	0.018	150	82
JUN													
02...	1030	--	5.7	5.8	--	--	N0.01	N0.01	0.46	0.095	0.011	91	120
23...	1030	--	3.1	3.7	4	2	0.18	0.76	0.34	0.088	0.034	110	120

GROUND-WATER LEVELS

Powder Mill Park

430252077283401. Local number Mo 10 (PM 83-1)

LOCATION.--Lat 43˚02'52", long 77˚28'34", Hydrologic Unit 04140101, next to intermittent stream south of Park Road, northeast of fish hatchery ponds at Powder Mill Park near Bushnell basin. Owner: U.S. Geological Survey

AQUIFER.-- Water-table aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 48 ft, cased to 28 ft, screened 28 ft to 48 ft. Filled in with silt to a depth of about 19 ft.

INSTRUMENTATION.--Weekly measurement with chalked tape by Powder Mill Park personnel and occasional measurement by USGS and MCEHL.

DATUM.--Elevation of land-surface datum is 448.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.82 ft above land-surface datum.

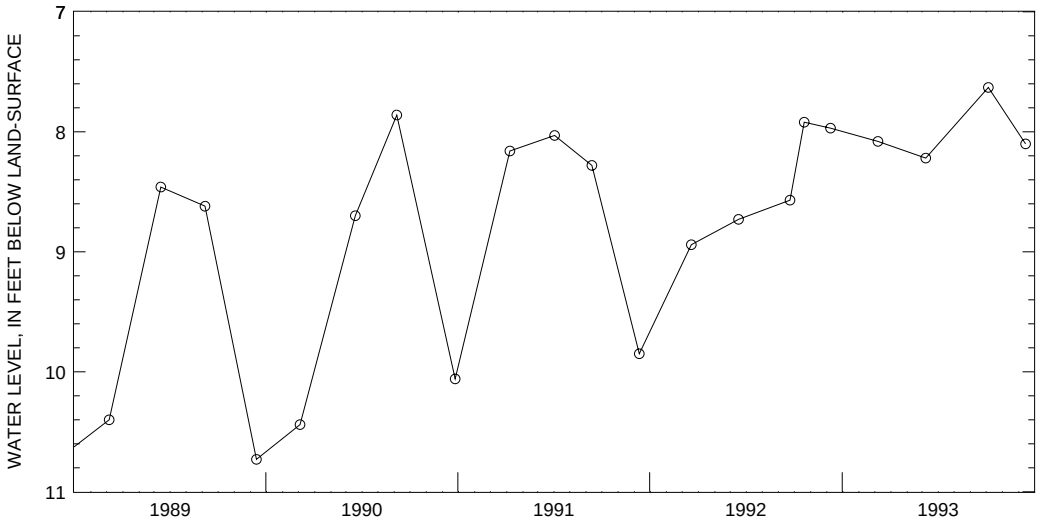
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--December 1983 to September 1993 (discontinued)

EXTREMES FOR PERIOD DECEMBER 1983 TO SEPTEMBER 1993.--Highest water level measured, 7.20 feet below land-surface datum, June 9, 1984; lowest measured, 10.73 feet below land-surface datum, September 13, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD DECEMBER 1988 TO SEPTEMBER 1989											
DEC	7	10.40	MAR	15	8.46	JUN	7	8.62	SEP	13	10.73
PERIOD DECEMBER 1989 TO SEPTEMBER 1990											
DEC	5	10.44	MAR	20	8.70	JUN	7	7.86	SEP	26	10.06
PERIOD DECEMBER 1990 TO SEPTEMBER 1991											
JAN	8	8.16	APR	3	8.03	JUN	13	8.28	SEP	11	9.85
PERIOD DECEMBER 1991 TO SEPTEMBER 1992											
DEC	19	8.94	JUN	24	8.57	JUL	21	7.92	SEP	9	7.97
MAR	18	8.73									
PERIOD DECEMBER 1992 TO SEPTEMBER 1993											
DEC	8	8.08	MAR	9	8.22	JUL	6	7.63	SEP	15	8.10



430252077283401. Local number Mo 10 (PM 83-1)--continued

PERIOD OF RECORD.-- January 1986 to September 1993 (discontinued).
CHEMICAL DATA: 1986(a) 1987-93(b).
ORGANIC DATA: OC.--1986(a) 1987-93(b).
NUTRIENT DATA: 1986(a) 1987-93(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
08	8.5	15	1	1240	--	<10	--	--	357	0.11
MAR										
16	9.0	40	4	1870	--	<10	7.6	30	385	<.01
JUN										
07	4.5	2.5	5	1260	--	<10	7.8	33	392	.01
SEP										
13	--	9.6	5	1170	--	<10	7.6	27	308	.02

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
08	0.56	0.87	0.075	.002	2.3	520	130	--	48
MAR									
16	.62	2.10	.040	.003	1.7	650	170	170	58
JUN									
07	.48	9.80	.065	.003	1.7	350	92	92	29
SEP									
13	.54	5.00	.045	.007	1.5	400	110	110	32

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
08	90	3.2	230	23	870	--	778	773
MAR								
16	150	3.8	380	20	1700	<1	1020	1000
JUN								
07	160	2.3	150	47	1200	--	765	714
SEP								
13	84	2.2	160	45	500	<1	656	614

430252077283401. Local number Mo 10 (PM 83-1)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	8.9	3	1130	--	<10	7.7	16	283	<0.01
MAR										
20	--	12	--	1040	--	--	7.7	20	--	.01
JUN										
07	--	5.2	--	964	--	--	7.5	27	--	<.01
SEP										
26	--	40	--	1400	--	--	7.5	--	--	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.47	3.40	0.035	0.002	0.9	400	110	110	31
MAR									
20	.21	8.00	.020	.003	--	360	--	96	29
JUN									
07	.41	11.0	.020	.004	--	370	--	98	29
SEP									
26	.14	3.10	.04	.004	--	490	--	140	37

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	88	2.5	180	42	490	<2	620	621
MAR								
20	93	2.1	110	43	540	--	--	636
JUN								
07	75	2.1	67	36	230	--	--	595
SEP								
26	86	2.3	280	21	2100	--	--	850

430252077283401. Local number Mo 10 (PM 83-1)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
JAN										
08	--	4.7	--	1340	--	--	7.3	--	--	0.02
APR										
04	--	7.9	--	1380	--	--	7.4	30	--	<.01
JUN										
13	--	8.3	--	1120	--	--	7.7	--	--	<.01
SEP										
12	--	2.7	--	937	--	--	7.6	18	--	.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
JAN									
08	0.35	2.80	0.010	0.004	--	500	--	130	32
APR									
04	.19	3.20	.015	.006	--	430	--	120	29
JUN									
13	.20	3.10	.025	.003	--	400	--	120	26
SEP									
12	.34	2.60	.010	.002	--	330	--	N110	28

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN								
08	120	2.9	240	31	240	--	--	786
APR								
04	140	2.8	210	42	440	--	--	799
JUN								
13	91	2.4	150	36	600	--	--	671
SEP								
12	76	2.1	120	33	130	--	--	542

430252077283401. Local number Mo 10 (PM 83-1)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
19	--	6.0	--	1230	--	--	7.0	<0.2	--	0.01
MAR										
18	--	12	--	1640	--	--	7.1	--	--	<.01
JUN										
24	--	7.6	--	1460	--	--	7.4	--	--	<.01
SEP										
10	--	1.0	--	1100	--	--	7.5	24	--	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
19	0.46	3.80	0.010	0.004	--	450	--	140	28
MAR									
18	.48	4.80	0.25	.004	--	580	--	170	33
JUN									
24	.78	3.40	.015	.004	--	460	--	--	25
SEP									
10	.26	1.80	.025	.003	--	340	--	100	17

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
19	100	2.8	170	50	250	--	--	731
MAR								
18	130	4.4	280	64	570	--	--	986
JUN								
24	150	2.6	230	16	460	--	--	853
SEP								
10	100	2.6	160	46	640	--	--	650

430252077283401. Local number Mo 10 (PM 83-1)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
09	--	18	--	1010	6.2	--	7.4	20	--	<0.01
MAR										
10	--	8.2	--	1080	--	--	7.6	18	--	.02
JUL										
07	--	16	--	1130	--	--	7.6	23	--	.01
SEP										
16	--	30	--	952	2.4	--	7.7	20	--	.03

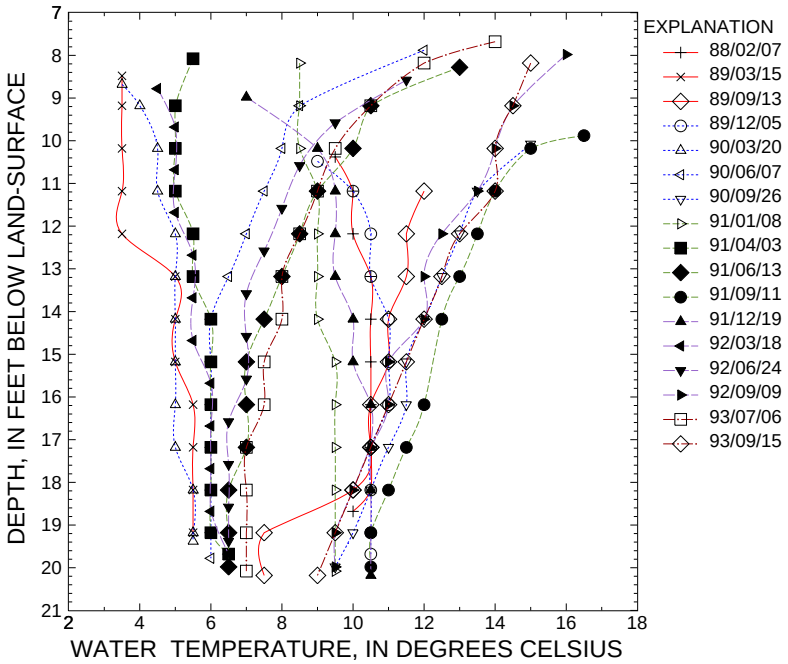
DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
09	0.31	1.70	0.070	.005	--	340	--	110	20
MAR									
10	.32	3.40	.015	.003	--	380	--	100	22
JUL									
07	.28	3.10	.220	.005	--	400	--	110	26
SEP									
16	.48	2.60	.055	.004	--	370	--	88	25

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
09	81	2.0	150	39	1400	--	--	594
MAR								
10	--	1.9	150	45	560	--	--	--
JUL								
07	100	2.2	140	51	5100	--	--	736
SEP								
16	98	1.8	280	38	1500	--	--	563

430252077283401. Local number Mo 10 (PM 83-1)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

depth in feet	1989 WY Dec 7	Mar 15	Jun 7	Sep 13	1990 WY Dec 5	Mar 20	Jun 7	Sep 26	1991 WY Jan 8	Apr 3	Jun 13	Sep 11	1992 WY Dec 19	Mar 18	Jun 24	Sep 9	1993 WY Dec 8	Mar 9	Jul 6	Sep 15
7.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.0	--
7.98	--	--	--	--	--	--	12.0	--	--	5.5	--	--	--	--	--	16.0	5.5	--	--	--
8.18	--	--	--	--	--	--	--	--	8.5	--	13.0	--	--	--	--	--	--	4.5	12.0	15.0
8.48	--	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8.68	--	--	--	--	--	3.5	--	--	--	--	--	--	--	--	11.5	--	--	--	--	--
8.78	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5	--	--	--	--	--	--
8.98	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	--	--	--	--	--	--
9.18	--	3.5	6.0	--	--	4.0	8.5	--	8.5	5.0	10.5	--	--	--	--	14.5	5.5	4.5	10.5	14.5
9.68	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	9.5	--	--	--	--	--
9.88	--	--	--	--	--	--	--	15.0	--	--	--	16.5	--	--	--	--	--	--	--	--
10.18	--	3.5	3.5	--	--	4.5	8.0	--	8.5	5.0	10.0	15.0	9.0	--	--	14.0	5.5	4.5	9.5	14.0
10.38	9.5	--	--	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10.68	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	8.5	--	--	--	--	--
11.18	10.0	3.5	2.5	12.0	10.0	4.5	7.5	13.5	9.0	5.0	9.0	14.0	9.5	--	--	13.5	5.5	4.5	9.0	14.0
11.68	--	--	--	--	--	--	--	--	--	--	--	--	--	5.0	8.0	--	--	--	--	--
12.18	10.0	3.5	2.0	11.5	10.5	5.0	7.0	13.0	9.0	5.5	8.5	13.5	9.5	--	--	12.5	5.5	4.5	8.5	13.0
12.68	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	7.5	--	--	--	--	--
13.18	10.5	5.0	1.5	11.5	10.5	5.0	6.5	12.5	9.0	5.5	8.0	13.0	9.5	--	--	12.0	5.5	4.5	8.0	12.5
13.68	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	7.0	--	--	--	--	--
14.18	10.5	5.0	1.5	11.0	11.0	5.0	6.0	12.0	9.0	6.0	7.5	12.5	10.0	--	--	12.0	5.5	4.5	8.0	12.0
14.68	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	7.0	--	--	--	--	--
15.18	10.5	5.0	1.0	11.0	11.0	5.0	6.0	11.5	9.5	6.0	7.0	--	10.0	--	--	11.0	5.5	4.5	7.5	11.5
15.68	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	7.0	--	--	--	--	--
16.18	10.5	5.5	1.0	10.5	11.0	5.0	6.0	11.5	9.5	6.0	7.0	12.0	10.5	--	--	11.0	5.5	4.5	7.5	11.0
16.68	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	6.5	--	--	--	--	--
17.18	10.5	5.5	1.0	10.5	10.5	5.0	6.0	11.0	9.5	6.0	7.0	11.5	10.5	--	--	10.5	5.5	4.5	7.0	10.5
17.68	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	6.5	--	--	--	--	--
18.18	10.5	5.5	1.0	10.0	10.5	5.5	6.0	10.5	9.5	6.0	6.5	11.0	10.5	--	--	10.0	5.5	4.5	7.0	10.0
18.68	10.0	--	--	--	--	--	--	--	--	--	--	--	--	6.0	6.5	--	--	--	--	--
19.18	--	5.5	1.0	7.5	10.5	5.5	6.0	10.0	9.5	6.0	6.5	10.5	10.5	--	--	9.5	5.5	4.5	7.0	9.5
19.38	--	--	--	--	--	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19.68	--	--	1.0	--	10.5	--	6.0	--	--	6.5	--	--	--	6.5	6.5	--	--	--	--	--
19.98	--	--	--	--	--	--	--	9.5	9.5	--	6.5	10.5	--	--	--	9.5	--	4.5	7.0	--
20.18	--	--	--	7.5	--	--	--	--	--	--	--	--	10.5	--	--	--	5.5	--	--	9.0



GROUND-WATER LEVELS

Powder Mill Park

430252077283402. Local number Mo 11 (PM 83-2)

LOCATION.--Lat 43˚02’52", long 77˚28’34", Hydrologic Unit 04140101, next to intermittent stream south of Park Road, northeast of fish hatchery ponds at Powder Mill Park near Bushnell basin. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 16 ft, cased to 6 ft, screened 6 ft to 16 ft.

INSTRUMENTATION.--Weekly measurement with chalked tape by Powder Mill Park personnel and occasional measurement by USGS and MCEHL.

DATUM.--Elevation of land-surface datum is 448.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.88 ft above land-surface datum.

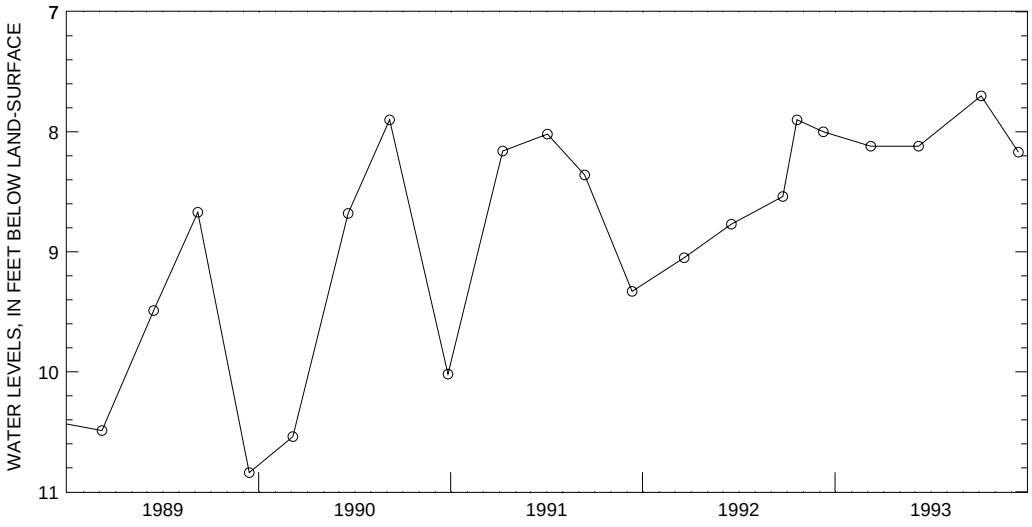
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--December 1983 to September 1993 (discontinued).

EXTREMES FOR PERIOD DECEMBER 1983 TO SEPTEMBER 1993.--Highest water level measured, 7.25 feet below land-surface datum, June 9, 1984; lowest measured, 10.84 feet below land-surface datum, September 13, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
DEC	7	10.02	MAR	15	9.49	JUN	7	8.67	SEP	13	10.84
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
DEC	5	10.54	MAR	20	8.68	JUN	7	7.90	SEP	26	10.02
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
JAN	8	8.16	APR	3	8.02	JUN	13	8.36	SEP	11	9.33
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
DEC	19	9.05	JUN	24	8.54	JUL	21	7.90	SEP	9	8.00
MAR	18	8.77									
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
DEC	8	8.12	MAR	9	8.12	JUL	6	7.70	SEP	15	8.17



430252077283402. Local number Mo 11 (PM 83-2)--continued

PERIOD OF RECORD.-- January 1986 to September 1993 (discontinued).
CHEMICAL DATA: 1986(a) 1987-93(b).
ORGANIC DATA: OC.--1986(a) 1987-93(b).
NUTRIENT DATA: 1986(a) 1987-93(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD JANUARY 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC 07	8.5	18	<20	831	0.4	<10	--	13	243	<0.01
MAR 15	5.5	25	15	1080	9.5	<10	7.8	9.7	224	<.01
JUN 07	4.5	22	2	1100	7.1	<10	7.8	10	217	.01
SEP 13	--	1.4	3	998	3.1	<10	7.7	9.4	222	.02

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC 07	0.29	1.50	0.045	0.009	1.0	290	72	--	26
MAR 15	.51	2.10	.055	.004	.9	360	88	88	34
JUN 07	.58	1.30	.025	.006	1.0	280	70	70	25
SEP 13	.31	.82	.020	.008	.8	240	60	60	22

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC 07	71	2.4	110	35	1400	<1	493	458
MAR 15	84	2.0	200	29	1500	<1	572	566
JUN 07	140	1.7	210	32	270	9	631	607
SEP 13	120	2.0	160	34	120	--	546	535

430252077283402. Local number Mo 11 (PM 83-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	16	10	873	0.6	<10	7.8	9.7	250	<.01
MAR										
20	--	2.0	--	1680	10.3	--	7.6	9.9	--	<.01
JUN										
07	--	4.0	--	1220	9.4	--	7.6	12	--	<.01
SEP										
29	--	12	--	1010	2.3	--	7.5	11	--	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.22	1.10	.065	.008	1.3	250	62	62	22
MAR									
20	.35	1.80	.015	.006	--	400	--	100	36
JUN									
07	.26	1.90	.025	.008	--	330	--	83	29
SEP									
29	<.10	.97	.045	.011	--	220	--	52	20

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	96	2.3	120	23	840	<2	506	480
MAR								
20	200	2.3	430	39	140	--	--	940
JUN								
07	130	1.6	250	31	250	--	--	682
SEP								
29	120	2.1	170	11	860	--	--	580

430252077283402. Local number Mo 11 (PM 83-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
JAN										
08	--	4.8	--	747	3.8	--	7.4	23	--	<0.01
APR										
03	--	1.4	--	834	4.5	--	7.9	13	--	.01
JUN										
13	--	1.8	--	951	6.3	--	7.6	13	--	<.01
SEP										
12	--	1.4	--	859	7.2	--	7.9	11	--	.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
JAN									
08	0.25	1.10	0.020	0.010	--	270	--	67	23
APR									
03	<.10	.96	.015	.009	--	330	--	83	29
JUN									
13	.43	1.40	.040	.008	--	310	--	79	21
SEP									
12	.30	1.10	.015	.007	--	250	--	64	24

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN								
08	57	1.5	87	16	410	--	--	418
APR								
03	70	1.7	130	30	90	--	--	457
JUN								
13	81	2.0	160	32	220	--	--	534
SEP								
12	84	2.4	110	28	100	--	--	478

430252077283402. Local number Mo 11 (PM 83-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
19	--	1.6	--	739	2.5	--	7.7	11	--	0.01
MAR										
18	--	1.5	--	979	7.8	--	7.6	16	--	<.01
JUN										
24	--	1.4	--	1160	5.8	--	7.5	15	--	<.01
SEP										
09	--	1.8	--	859	1.0	--	7.5	16	--	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
19	0.14	1.30	0.010	0.008	--	240	--	61	22
MAR									
18	.16	.13	.010	.007	--	330	--	73	30
JUN									
24	.59	1.20	.010	.007	--	350	--	92	34
SEP									
09	.21	.80	.020	.012	--	240	--	64	21

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
19	62	2.2	81	<10	70	--	--	411
MAR								
18	68	2.8	170	35	110	--	--	525
JUN								
24	130	2.4	280	39	160	--	--	691
SEP								
09	92	1.7	110	27	170	--	--	484

430252077283402. Local number Mo 11 (PM 83-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
09	--	2.5	--	782	1.1	--	7.3	17	--	<0.01
MAR										
10	--	18	--	737	.9	--	7.6	14	--	.02
JUL										
07	--	39	--	886	4.9	--	7.6	13	--	<.01
SEP										
16	--	3.8	--	915	1.3	--	7.6	14	--	<.01

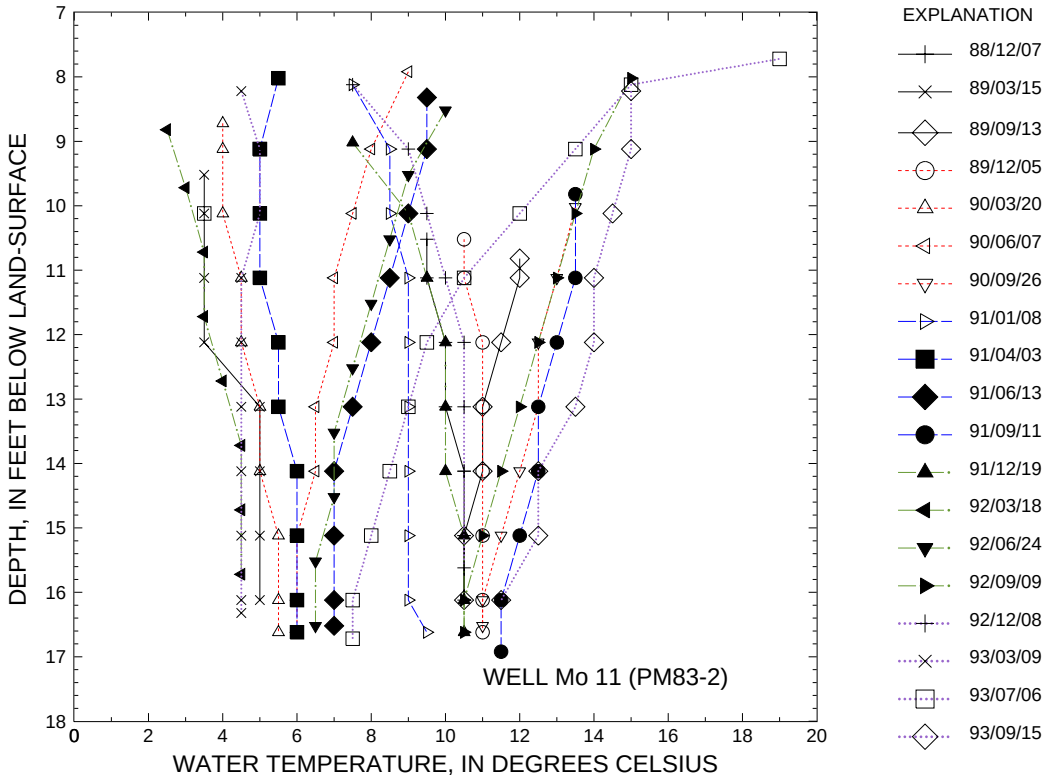
DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
09	0.10	0.50	0.020	0.011	--	260	--	69	23
MAR									
10	.20	.75	.060	.006	--	270	--	66	24
JUL									
07	.32	1.10	.100	.012	--	320	--	78	27
SEP									
16	.40	1.40	.025	.009	--	290	--	75	26

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
09	68	1.5	96	24	230	--	--	468
MAR								
10	51	1.4	89	21	1400	--	--	--
JUL								
07	73	1.6	130	25	2200	--	--	516
SEP								
16	92	1.7	130	31	230	--	--	528

430252077283402. Local number Mo 11 (PM 83-2)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1989 WY			1990 WY				1991 WY				1992 WY				1993 WY			
	Dec 7	Mar 15	Sep 13	Dec 5	Mar 20	Jun 7	Sep 26	Jan 8	Apr 3	Jun 13	Sep 11	Dec 19	Mar 18	Jun 24	Sep 9	Dec 8	Mar 9	Jul 6	Sep 15
7.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--
8.12	--	--	--	--	--	9.0	--	7.5	5.5	9.5	--	--	--	--	15.0	7.5	4.5	15.0	15.0
8.52	--	--	--	--	4.0	--	--	--	--	--	--	--	--	10.0	--	--	--	--	--
9.12	--	--	--	--	4.0	8.0	--	8.5	5.0	9.5	--	7.5	2.5	--	14.0	9.0	5.0	13.5	15.0
9.52	--	3.5	--	--	--	--	--	--	--	--	--	--	--	9.0	--	--	--	--	--
9.82	--	--	--	--	--	--	--	--	--	--	13.5	--	3.0	--	--	--	--	--	--
10.12	--	3.5	--	--	4.0	7.5	13.5	8.5	5.0	9.0	--	9.0	--	--	13.5	9.5	5.0	12.0	14.5
10.52	9.5	--	12.0	10.5	--	--	--	--	--	--	--	--	3.5	8.5	--	--	--	--	--
11.12	9.5	3.5	12.0	10.5	4.5	7.0	13.0	9.0	5.0	8.5	13.5	9.5	--	--	13.0	10.0	4.5	10.5	14.0
11.52	--	--	--	--	--	--	--	--	--	--	--	--	--	8.0	--	--	--	--	--
12.12	10.0	3.5	11.5	11.0	4.5	7.0	12.5	9.0	5.5	8.0	13.0	10.0	3.5	--	12.5	10.5	4.5	9.5	14.0
12.52	--	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	--	--	--	--
13.12	10.0	5.0	11.0	11.0	5.0	6.5	12.5	9.0	5.5	7.5	12.5	10.0	4.0	--	12.0	10.5	4.5	9.0	13.5
13.52	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	--	--	--	--
14.12	10.5	5.0	11.0	11.0	5.0	6.5	12.0	9.0	6.0	7.0	12.5	10.0	4.5	--	11.5	10.5	4.5	8.5	12.5
14.52	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	--	--	--	--
15.12	10.5	5.0	10.5	11.0	5.5	6.0	11.5	9.0	6.0	7.0	12.0	10.5	4.5	--	11.0	10.5	4.5	8.0	12.5
15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	--	--	--	--
15.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5	--	--	--
16.12	10.5	5.0	10.5	11.0	5.5	6.0	11.0	9.0	6.0	7.0	11.5	10.5	4.5	--	10.5	--	4.5	7.5	11.5
16.62	--	--	--	11.0	5.5	6.0	11.0	9.5	6.0	7.0	--	10.5	--	6.5	10.5	--	--	7.5	--
16.92	--	--	--	--	--	--	--	--	--	--	11.5	--	--	--	--	--	--	--	--



GROUND-WATER LEVELS

Powder Mill Park

430249077284501. Local number Mo 12 (PM 83-4)

LOCATION.--Lat 43˚02'49", long 77˚28'45", Hydrologic Unit 04140101, near esker along north side of Park Road, 500 ft west of fish hatchery ponds at Powder Mill Park near Bushnell basin. Owner: U.S. Geological Survey.

AQUIFER.--Confined aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 43 ft, cased to 43 ft, open end.

INSTRUMENTATION.--Weekly measurement with chalked tape by Powder Mill Park personnel and occasional measurement by USGS and MCEHL.

DATUM.--Elevation of land-surface datum is 431.82 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.25 ft below land-surface datum.

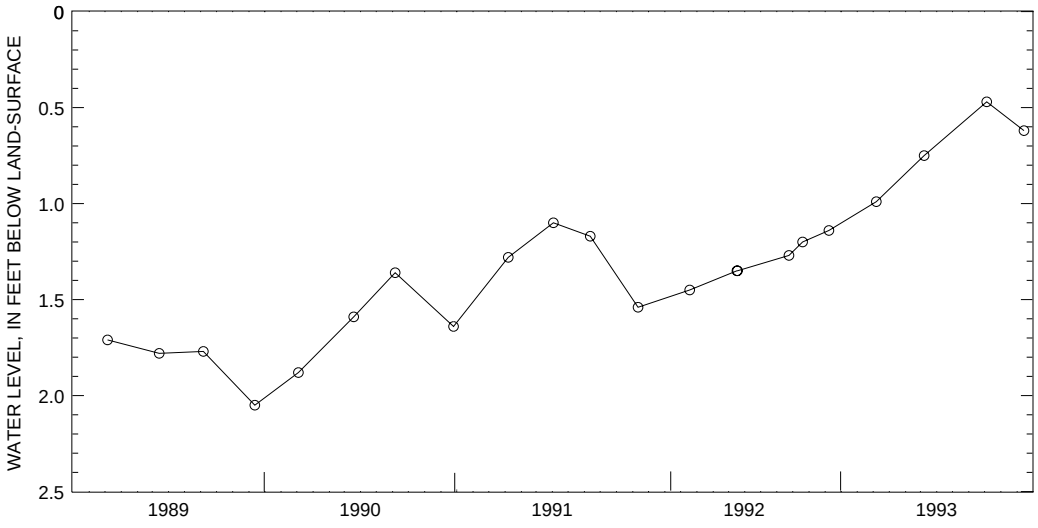
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--December 1983 to September 1993 (discontinued).

EXTREMES FOR PERIOD DECEMBER 1983 TO SEPTEMBER 1993.--Highest water level measured, 0.47 feet below land-surface datum, July 6, 1993; lowest measured, 1.88 feet below land-surface datum, December 5, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
DEC	7	1.71	MAR	15	1.78	JUN	7	1.77	SEP	13	2.05
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
DEC	5	1.88	MAR	20	1.59	JUN	7	1.36	SEP	26	1.64
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
JAN	8	1.28	APR	4	1.10	JUN	13	1.17	SEP	12	1.54
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
DEC	19	1.45	MAR	19	1.35	JUL	21	1.20	SEP	9	1.14
MAR	18	1.35	JUN	25	1.27						
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
DEC	8	0.99	MAR	9	0.75	JUL	6	0.47	SEP	15	0.62



430249077284501. Local number Mo 12 (PM 83-4)--continued

PERIOD OF RECORD.-- January 1986 to September 1993 (discontinued)..
CHEMICAL DATA: 1986(a) 1987-93(b).
ORGANIC DATA: OC.--1986(a) 1987-93(b).
NUTRIENT DATA: 1986(a) 1987-93(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	8.5	6.5	1	1000	0.4	<10	--	18	256	0.05
MAR										
15	6.5	40	3	1050	.3	<10	7.6	17	265	.03
JUN										
07	9.0	3.9	2	1010	.1	<10	7.8	11	265	.06
SEP										
13	--	20	3	1050	<.1	<10	7.6	17	263	.05

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	0.22	0.01	0.025	0.002	0.4	410	98	--	40
MAR									
15	.57	.03	.075	.002	.8	400	98	98	37
JUN									
07	.44	.08	.060	.003	.3	410	100	100	38
SEP									
13	.29	<.01	.065	.002	.3	390	95	95	36

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	62	2.5	140	75	420	<1	621	571
MAR								
15	65	2.4	140	68	2100	<1	596	568
JUN								
07	66	2.1	140	68	1100	3	599	575
SEP								
13	67	2.0	140	71	2100	<1	600	569

430249077284501. Local number Mo 12 (PM 83-4)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	33	3	1010	<0.1	<10	7.8	16	265	0.03
MAR										
20	--	31	--	984	.3	--	7.6	36	--	.04
JUN										
07	--	25	--	1000	<.1	--	7.6	17	--	.04
SEP										
26	--	7.6	--	1020	<.1	--	7.6	17	--	.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.39	<0.01	0.120	0.002	0.7	380	93	93	36
MAR									
20	.30	<.01	.065	.002	--	380	--	93	37
JUN									
07	.49	.12	.045	.002	--	380	--	91	36
SEP									
26	<.10	<.01	.020	.004	--	380	--	89	35

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	67	2.3	140	74	2100	<4	582	568
MAR								
20	65	2.0	140	70	1800	--	--	578
JUN								
07	69	2.1	140	70	1200	--	--	605
SEP								
26	67	1.9	140	38	470	--	--	612

430249077284501. Local number Mo 12 (PM 83-4)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
JAN										
08	--	30	--	1010	<0.2	--	7.5	24	--	0.10
APR										
04	--	18	--	990	.1	--	7.5	19	--	.05
JUN										
13	--	12	--	1010	.2	--	7.6	20	--	.02
SEP										
12	--	16	--	1020	.3	--	7.8	16	--	.02

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
JAN									
08	0.38	<0.01	0.035	0.003	--	380	--	92	37
APR									
04	.18	.05	.025	.007	--	410	--	94	35
JUN									
13	.33	.16	.055	.005	--	380	--	94	36
SEP									
12	.52	<.05	.060	.002	--	390	--	94	37

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN								
08	66	2.4	130	77	1500	--	--	602
APR								
04	66	2.3	140	79	1100	--	--	575
JUN								
13	65	2.4	130	62	1300	--	--	616
SEP								
12	N40	2.2	140	74	960	--	--	589

430249077284501. Local number Mo 12 (PM 83-4)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
19	--	30	--	1020	0.4	--	7.6	18	--	0.02
MAR										
18	--	3.9	--	1010	--	--	7.6	19	--	.02
JUN										
24	--	3.7	--	1030	N.2	--	7.3	N21	--	.01
SEP										
09	--	3.5	--	1030	.4	--	7.4	20	--	.02

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
19	0.27	<0.05	0.035	0.003	--	390	--	90	35
MAR									
18	.17	<.05	.015	.003	--	390	--	95	38
JUN									
24	.48	<.05	.008	.002	--	390	--	94	38
SEP									
09	.32	<.05	.020	.003	--	390	--	100	43

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
19	69	2.3	140	34	1600	--	--	605
MAR								
18	63	2.9	140	76	410	--	--	612
JUN								
24	N76	2.2	140	21	450	--	--	588
SEP								
09	70	2.5	140	85	610	--	--	625

430249077284501. Local number Mo 12 (PM 83-4)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
09	--	2.4	--	1030	0.2	--	7.3	18	--	<0.01
MAR										
10	--	3.9	--	1030	.7	--	7.6	17	--	.21
JUL										
07	--	3.1	--	1020	<.1	--	7.7	16	--	<.01
SEP										
16	--	1.9	--	1030	.1	--	7.6	17	--	.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
09	0.16	N0.05	0.010	0.003	--	400	--	99	38
MAR									
10	.26	<.05	.010	.003	--	410	--	93	38
JUL									
07	.26	<.05	<.005	.003	--	400	--	95	38
SEP									
16	.39	<.05	.015	.004	--	400	--	99	36

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
09	68	2.1	140	88	460	--	--	604
MAR								
10	67	2.0	140	83	560	--	--	--
JUL								
07	68	2.2	140	82	300	--	--	644
SEP								
16	71	1.8	140	82	440	--	--	608

GROUND-WATER TEMPERATURE PROFILES

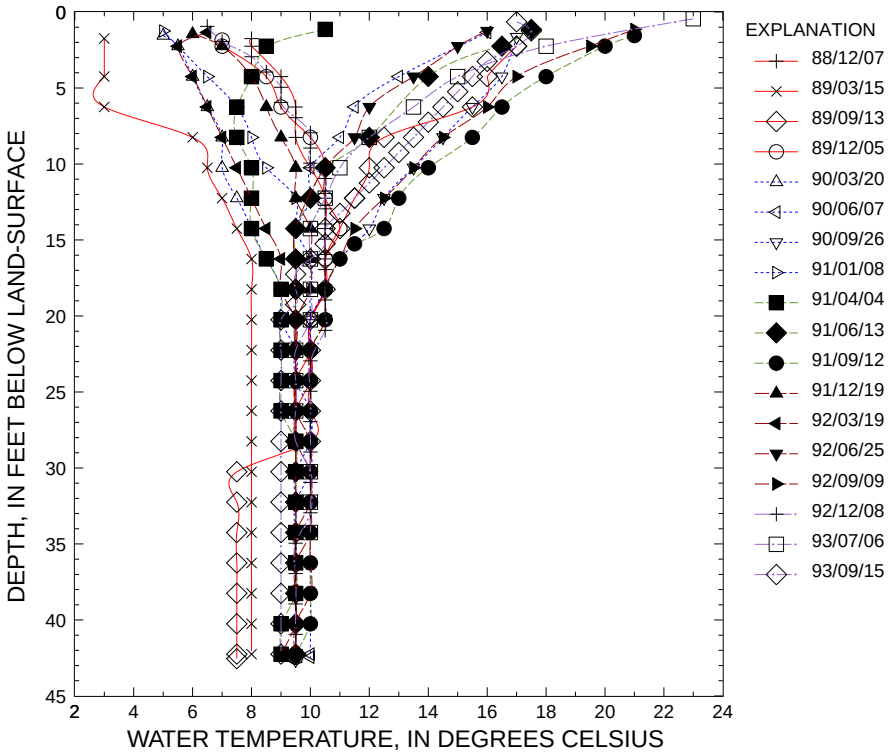
Powder Mill Park

430249077284501. Local number Mo 12 (PM 83-4)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1989 WY				1990 WY				1991 WY				1992 WY				1993 WY			
	Dec 7	Mar 15	Jun 7	Sep 13	Dec 5	Mar 20	Jun 7	Sep 26	Jan 8	Apr 4	Jun 13	Sep 12	Dec 19	Mar 19	Jun 25	Sep 9	Dec 8	Mar 9	Jul 6	Sep 15
0.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5		23.0	17.0
1.25	--	--	--	--	--	--	16.0	--	5.0	10.5	17.5	--	--	6.5	16.0	21.0	--		--	17.5
1.55	--	--	--	--	--	5.0	--	--	--	--	--	21.0	6.0	--	--	--	--		--	--
1.75	8.0	3.0	11.0	--	7.0	--	--	17.0	--	--	--	--	--	--	--	--			--	--
2.25	8.0	--	--	17.0	7.0	5.5	--	--	--	8.5	16.5	20.0	7.0	5.5	15.0	19.5	7.0		18.0	17.0
3.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.0		--	16.0
4.25	9.0	3.0	8.5	16.0	8.5	6.0	13.0	16.5	6.5	8.0	14.0	18.0	8.0	6.0	13.5	17.0	8.5		15.0	15.5
5.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0		--	15.0
6.25	9.5	3.0	6.5	15.5	9.0	6.5	11.5	15.5	7.5	7.5	--	16.5	8.5	6.5	12.0	16.0	9.0		13.5	14.5
7.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5		--	14.0
8.25	9.5	6.0	5.5	12.5	10.0	7.0	11.0	14.5	8.0	7.5	12.0	15.5	9.0	7.0	11.5	14.5	10.0		12.0	13.5
9.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0		--	13.0
10.25	10.0	6.5	4.0	12.0	10.5	7.0	10.0	13.5	8.5	8.0	10.5	14.0	9.5	7.5	10.5	13.5	10.0		11.0	12.5
11.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5		--	12.0
12.25	10.5	7.0	4.0	11.5	10.5	7.5	10.0	12.5	9.5	8.0	10.0	13.0	9.5	8.0	--	12.5	10.5		10.5	11.5
13.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5		--	11.0
14.25	10.5	7.5	4.0	11.0	11.0	8.0	9.5	12.0	9.5	8.0	9.5	12.5	10.0	8.5	9.5	11.5	10.5		10.0	10.5
15.25	--	--	--	--	--	--	--	--	--	--	--	11.5	--	--	--	--	10.5		--	10.5
16.25	10.5	8.0	4.0	10.5	10.5	8.5	9.5	11.0	10.0	8.5	9.5	11.0	10.0	9.0	9.5	11.0	10.5		10.0	10.0
17.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5		--	9.5
18.25	10.5	8.0	4.0	10.5	10.5	9.0	9.5	10.5	10.0	9.0	9.5	10.5	10.0	9.0	9.5	10.5	10.5		10.0	9.5
19.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5		--	9.5
20.25	10.0	8.0	4.0	10.0	10.0	9.0	9.5	10.0	10.0	9.0	9.5	10.5	9.5	9.5	9.5	10.5	10.5		10.0	9.0
22.25	10.0	8.0	4.0	10.0	10.0	9.5	9.5	10.0	10.0	9.0	9.5	10.0	9.5	9.5	9.5	10.0	10.5		9.5	9.0
24.25	9.5	8.0	4.0	10.0	10.0	9.5	9.5	10.0	10.0	9.0	9.5	10.0	9.5	9.5	9.5	10.0	10.0		9.5	9.0
25.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0		--	--
26.25	9.5	8.0	4.0	10.0	9.5	9.5	10.0	10.0	10.0	9.0	9.5	10.0	9.5	9.5	9.5	10.0	--		9.5	9.0
26.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0		--	--
28.25	9.5	8.0	4.0	10.0	9.5	9.5	10.0	10.0	10.0	9.5	9.5	10.0	9.5	10.0	9.5	10.0	--		9.5	9.0
28.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0		--	--
30.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	10.0	9.5	9.5	9.5	10.0	9.5	10.0	10.0	10.0	--		10.0	9.0
30.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0		--	--
32.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	9.5	9.5	9.5	9.5	10.0	9.5	10.0	10.0	10.0	--		10.0	9.0
32.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0		--	--
34.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	9.5	9.5	9.5	9.5	10.0	9.5	9.5	10.0	10.0	--		10.0	9.0
35.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5		--	--
36.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	9.5	9.5	9.5	9.5	10.0	9.5	9.5	9.5	10.0	--		--	9.0
36.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5		--	--
38.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	9.5	9.5	9.5	9.5	10.0	9.5	9.5	9.5	10.0	--		--	9.0
38.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5		--	--
40.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	9.5	9.5	9.0	9.5	10.0	9.5	9.5	9.5	9.5	--		--	9.0
40.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5		--	--
41.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5		--	--
42.25	9.5	8.0	4.0	7.5	9.5	9.5	10.0	9.5	9.5	9.0	9.5	9.5	9.0	9.5	9.5	9.5	--		--	9.0
42.45	--	--	4.0	--	9.5	--	10.0	--	--	--	--	--	--	--	--	9.5	--		--	--
42.55	--	--	--	7.5	--	9.5	--	--	--	--	--	--	--	--	--	--	--		--	--
42.65	--	--	--	--	--	--	--	9.5	--	--	--	--	--	--	--	--	--		--	--

430249077284501. Local number Mo 12 (PM 83-4)--continued



430855077304201. Local number Mo 1 (El 84-1)

LOCATION.--Lat 43˚08’55", long 77˚30’42", Hydrologic Unit 04140101, near east valley wall north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 26.5 ft, cased to 23.5 ft, screened 23.5 ft to 26.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel and occasional measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 252.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: arrow at top of casing, 3.26 ft above land-surface datum.

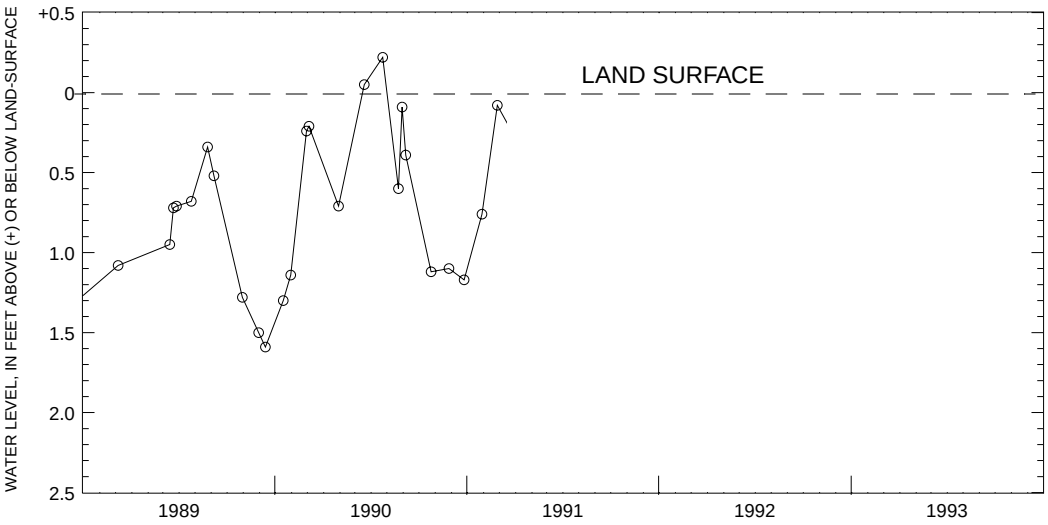
REMARKS.--Water level may be affected by stage of Irondequoit Creek. This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--September 1984 to November 1990, (discontinued).

EXTREMES FOR PERIOD SEPTEMBER 1984 TO NOVEMBER 1990.--Highest water level measured, 0.80 feet above land-surface datum, April 9, 1987; lowest measured, 1.59 feet below land-surface datum, September 13, 1989.

WATER LEVEL, IN FEET ABOVE (+) OR BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
DEC	7	1.08	MAR	28	0.71	JUN	7	0.52	SEP	13	1.59
MAR	15	.95	APR	25	.68	JUL	31	1.28			
	22	.72	MAY	26	.34	AUG	31	1.50			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	17	1.30	JAN	30	0.71	MAY	31	.09	SEP	26	1.17
	31	1.14	MAR	20	+.05	JUN	7	.39			
NOV	30	.24	APR	24	+.22	JUL	25	1.12			
DEC	5	.21	MAY	24	+.60	AUG	28	1.10			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	0.76	NOV	28	0.08						



430855077304201. Local number Mo 1 (El 84-1)--continued

PERIOD OF RECORD.-- January 1986 to November 1990, (discontinued).
CHEMICAL DATA: 1986(a) 1987-90(b).
ORGANIC DATA: OC.--1986(a) 1987-90(b).
NUTRIENT DATA: 1986(a) 1987-90(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-90(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	--	80	<20	1630	<0.1	<10	--	23	299	0.01
MAR										
15	6.0	45	10	1700	2.7	<10	7.6	25	299	<.01
JUN										
07	9.5	18	3	1620	1.7	<10	7.6	5.2	295	<.01
SEP										
13	--	19	3	1700	2.8	<10	7.5	24	297	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	0.25	1.70	0.095	0.005	1.1	470	130	--	36
MAR									
15	.61	1.70	.065	.003	1.5	450	120	120	35
JUN									
07	.51	4.20	.055	.006	.5	440	120	120	36
SEP									
13	.51	1.70	.085	.005	1.0	450	120	120	34

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	170	3.2	330	81	4100	<10	1000	934
MAR								
15	190	2.9	330	79	1700	<2	967	938
JUN								
07	190	2.4	330	87	760	12	987	931
SEP								
13	170	2.4	330	76	110	1	991	923

430855077304201. Local number Mo 1 (El 84-1)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	35	5	1660	3.1	<10	7.5	21	300	<0.01
MAR										
20	8.5	16	--	1630	2.3	--	7.5	18	--	<.01
JUN										
07	--	25	--	1640	2.4	--	7.5	23	--	<.01
SEP										
26	--	6.8	--	1670	2.8	--	7.5	25	--	<.01

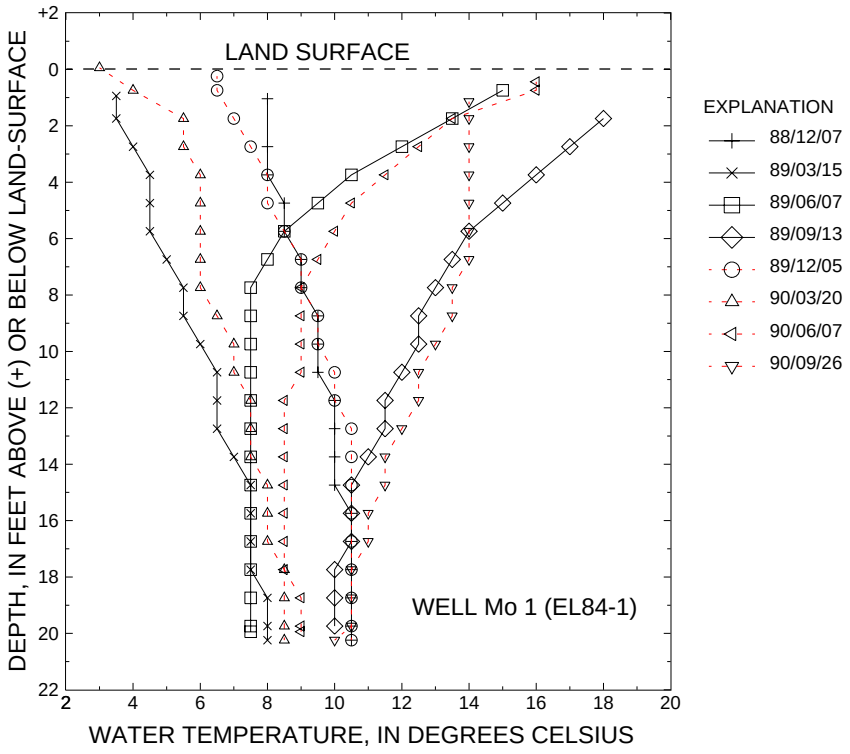
DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.10	1.70	0.100	.0..5	1.2	440	120	120	34
MAR									
20	.21	1.30	.030	.005	--	440	--	120	35
JUN									
07	.55	1.70	.050	.005	--	440	--	120	33
SEP									
26	.43	.16	.040	.007	--	430	--	110	33

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	180	2.9	320	80	1600	<4	966	918
MAR								
20	190	2.4	320	78	710	--	--	956
JUN								
07	180	2.4	320	74	1000	--	--	986
SEP								
26	190	2.6	310	38	410	--	--	977

430855077304201. Local number Mo 1 (El 84-1)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1989 WY				1990 WY			
	Dec 7	Mar 15	Jun 7	Sep 13	Dec 5	Mar 20	Jun 7	Sep 26
-0.06	--	--	--	--	--	3.0	--	--
0.44	--	--	--	--	6.5	--	16.0	--
0.74	--	--	15.0	--	6.5	4.0	16.0	--
1.04	8.0	3.5	--	--	--	--	--	14.0
1.74	--	3.5	13.5	18.0	7.0	5.5	13.5	14.0
2.74	8.0	4.0	12.0	17.0	7.5	5.5	12.5	14.0
3.74	8.0	4.5	10.5	16.0	8.0	6.0	11.5	14.0
4.74	8.5	4.5	9.5	15.0	8.0	6.0	10.5	14.0
5.74	8.5	4.5	8.5	14.0	8.5	6.0	10.0	14.0
6.74	9.0	5.0	8.0	13.5	9.0	6.0	9.5	14.0
7.74	9.0	5.5	7.5	13.0	9.0	6.0	9.0	13.5
8.74	9.5	5.5	7.5	12.5	9.5	6.5	9.0	13.5
9.74	9.5	6.0	7.5	12.5	9.5	7.0	9.0	13.0
10.74	9.5	6.5	7.5	12.0	10.0	7.0	9.0	12.5
11.74	10.0	6.5	7.5	11.5	10.0	7.5	8.5	12.5
12.74	10.0	6.5	7.5	11.5	10.5	7.5	8.5	12.0
13.74	10.0	7.0	7.5	11.0	10.5	7.5	8.5	11.5
14.74	10.0	7.5	7.5	10.5	10.5	8.0	8.5	11.5
15.74	10.5	7.5	7.5	10.5	10.5	8.0	8.5	11.0
16.74	10.5	7.5	7.5	10.5	10.5	8.0	8.5	11.0
17.74	10.5	7.5	7.5	10.0	10.5	8.5	8.5	10.5
18.74	10.5	8.0	7.5	10.0	10.5	8.5	9.0	10.5
19.74	10.5	8.0	7.5	10.0	10.5	8.5	9.0	10.5
20.24	10.5	8.0	7.5	--	10.5	8.5	9.0	10.0



GROUND-WATER LEVELS

Ellison park

430855077304202. Local number Mo 2 (El 84-2)

LOCATION.--Lat 43˚08’55", long 77˚30’42", Hydrologic Unit 04140101, near east valley wall, north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in coarse sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 45 ft, cased to 41 ft, screened 41 to 45 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel and occasional measurements by USGS personnel.

DATUM.--Elevation of land-surface datum is 252.60 ft above National Geodetic Vertical Datum of 1929. Measuring point: arrow at top of casing, 4.08 ft above land-surface datum.

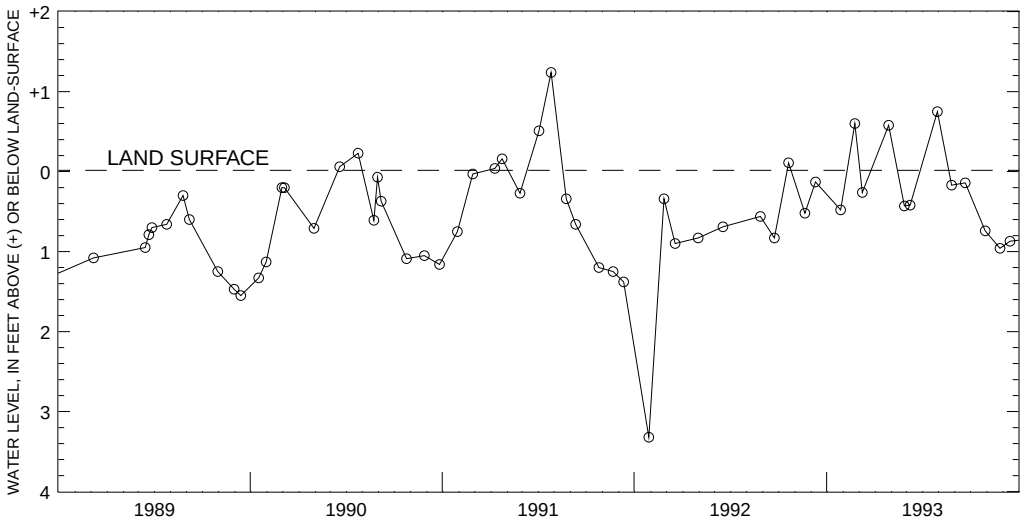
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--September 1984 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1984 TO SEPTEMBER 1993.--Highest water level measured, 1.24 feet above land-surface datum, April 26, 1991; lowest measured, 3.32 feet below land-surface datum, October 29, 1991.

WATER LEVEL, IN FEET ABOVE (+) OR BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
DEC	7	1.08	MAR	28	0.72	JUN	7	0.60	SEP	13	1.55
MAR	15	.95	APR	25	.66	JUL	31	1.25			
	22	.79	MAY	26	.30	AUG	31	1.47			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	17	1.33	JAN	30	0.71	MAY	31	.07	SEP	26	1.16
	31	1.13	MAR	20	+.06	JUN	7	.37			
NOV	30	.20	APR	24	+.23	JUL	25	1.09			
DEC	5	.20	MAY	24	+0.61	AUG	28	1.5			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	0.75	JAN	23	+0.16	APR	26	+1.24	JUL	26	1.20
NOV	28	.03	FEB	26	.27	MAY	25	.34	AUG	22	1.25
JAN	9	+.04	APR	3	+.51	JUN	12	.66	SEP	11	1.38
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	3.32	JAN	31	0.83	JUN	24	0.83	SEP	10	0.13
NOV	27	.34	MAR	18	.69	JUL	21	+.11			
DEC	18	.90	MAY	28	.56	AUG	21	.52			
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	0.48	JAN	27	+0.28	APR	30	+0.75	JUL	30	0.74
NOV	24	+.60	FEB	26	.43	MAY	27	.17	AUG	27	.96
DEC	8	.26	MAR	9	.42	JUN	22	.14	SEP	15	.87



430855077304202. Local number Mo 2 (El 84-2)--continued

PERIOD OF RECORD.-- January 1986 to current year.
CHEMICAL DATA: 1986(a) 1987-93(b).
ORGANIC DATA: OC.--1986(a) 1987-93(b).
NUTRIENT DATA: 1986(a) 1987-93(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	7.0	50	<10	1020	<0.1	<10	--	11	204	0.04
MAR										
15	9.0	15	4	974	.6	<10	7.7	10	200	.04
JUN										
07	10.0	16	2	918	<.1	<10	7.7	10	198	.03
SEP										
13	--	6.2	2	982	.2	<10	7.7	10	197	.06

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	0.26	0.20	0.080	0.002	0.5	330	94	--	24
MAR									
15	.48	<.01	.060	<.002	1.0	320	92	92	22
JUN									
07	44	<.01	.050	.002	.9	320	91	91	23
SEP									
13	.23	<.01	.040	.003	1.2	300	84	84	21

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	84	1.9	170	74	1800	<1	619	573
MAR								
15	79	1.6	150	73	890	<1	562	533
JUN								
07	74	1.5	140	74	780	<2	560	524
SEP								
13	88	1.5	150	72	440	<1	613	536

430855077304202. Local number Mo 2 (El 84-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	5.4	2	916	0.2	<10	7.7	8.6	197	0.03
MAR										
20	--	16	--	807	.4	--	7.8	6.4	--	.03
JUN										
07	--	21	--	880	.2	--	7.7	9.6	--	.02
SEP										
26	--	11	--	916	<.1	--	7.8	9.3	--	0.3

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.24	<0.01	0.040	0.002	--	310	87	87	22
MAR									
20	.29	<.01	.042	.002	--	290	--	80	21
JUN									
07	.23	.02	.055	.002	--	300	--	82	20
SEP									
26	.13	.01	.028	.003	--	290	--	74	20

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	74	1.6	140	74	340	<2	542	516
MAR								
20	61	1.3	120	71	630	--	--	488
JUN								
07	70	1.5	130	74	820	--	--	570
SEP								
26	80	1.3	140	38	470	--	--	536

430855077304202. Local number Mo 2 (El 84-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	TOTAL COLOR (PLAT-INUM COBALT UNITS)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	OXYGEN, DIS-SOLVED (mg/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L)	PH (STAND-ARD UNITS)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)
JAN										
09	--	6.1	--	810	0.6	--	7.5	11	--	0.06
APR										
03	--	5.9	--	807	1	--	7.6	8.0	--	.03
JUN										
12	--	3.6	--	897	.8	--	7.7	14	--	<.01
SEP										
11	--	6.5	--	864	20.4	--	7.8	9.1	--	.04

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARD-NESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOV-ERABLE (mg/L as Ca)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)
JAN									
09	0.28	0.02	0.020	0.002	--	290	--	76	20
APR									
03	.17	--	.013	.004	--	290	--	80	20
JUN									
12	.46	.12	.025	.002	--	290	--	82	20
SEP									
11	.33	.06	.018	.002	--	280	--	78	15

DATE	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	IRON, TOTAL RECOV-ERABLE (µg/L as Fe)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (mg/L)
JAN								
09	62	1.6	110	68	340	--	--	500
APR								
03	58	1.5	110	77	330	--	--	468
JUN								
12	78	1.6	150	68	400	--	--	538
SEP								
11	72	1.5	130	74	320	--	--	516

430855077304202. Local number Mo 2 (El 84-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
18	--	4.6	--	1060	14.4	--	7.5	11	--	0.06
MAR										
18	--	4.9	--	859	2.8	--	7.8	9.2	--	.03
JUN										
24	--	7.3	--	933	.2	--	7.6	10	--	.04
SEP										
10	--	14	--	898	<.1	--	7.6	9.6	--	.04

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
18	0.28	<0.05	0.018	0.004	--	290	--	81	20
MAR									
18	.17	<.05	.025	.003	--	300	--	82	22
JUN									
24	.54	<.05	.030	.002	--	310	--	88	22
SEP									
10	.13	<.05	.045	.006	--	300	--	84	21

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
18	77	1.7	140	80	290	--	--	555
MAR								
18	66	2.1	130	74	200	--	--	491
JUN								
24	75	1.6	140	72	460	--	--	544
SEP								
10	70	1.6	140	84	1600	--	--	544

430855077304202. Local number Mo 2 (El 84-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
08	--	5.8	--	875	0.7	--	7.4	9.2	--	0.04
MAR										
09	--	14	--	897	1.4	--	7.5	11	--	.02
JUN										
22	--	9.4	--	907	--	--	7.8	8.3	--	.03
SEP										
16	--	7.6	--	887	<.1	--	7.8	8.0	--	.04

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
08	0.17	<0.05	0.015	0.003	--	300	--	85	22
MAR									
09	.20	.05	.025	.002	--	310	--	84	22
JUN									
22	.32	<.05	.063	.003	--	300	--	90	23
SEP									
16	.43	<.05	.025	.007	--	300	--	85	20

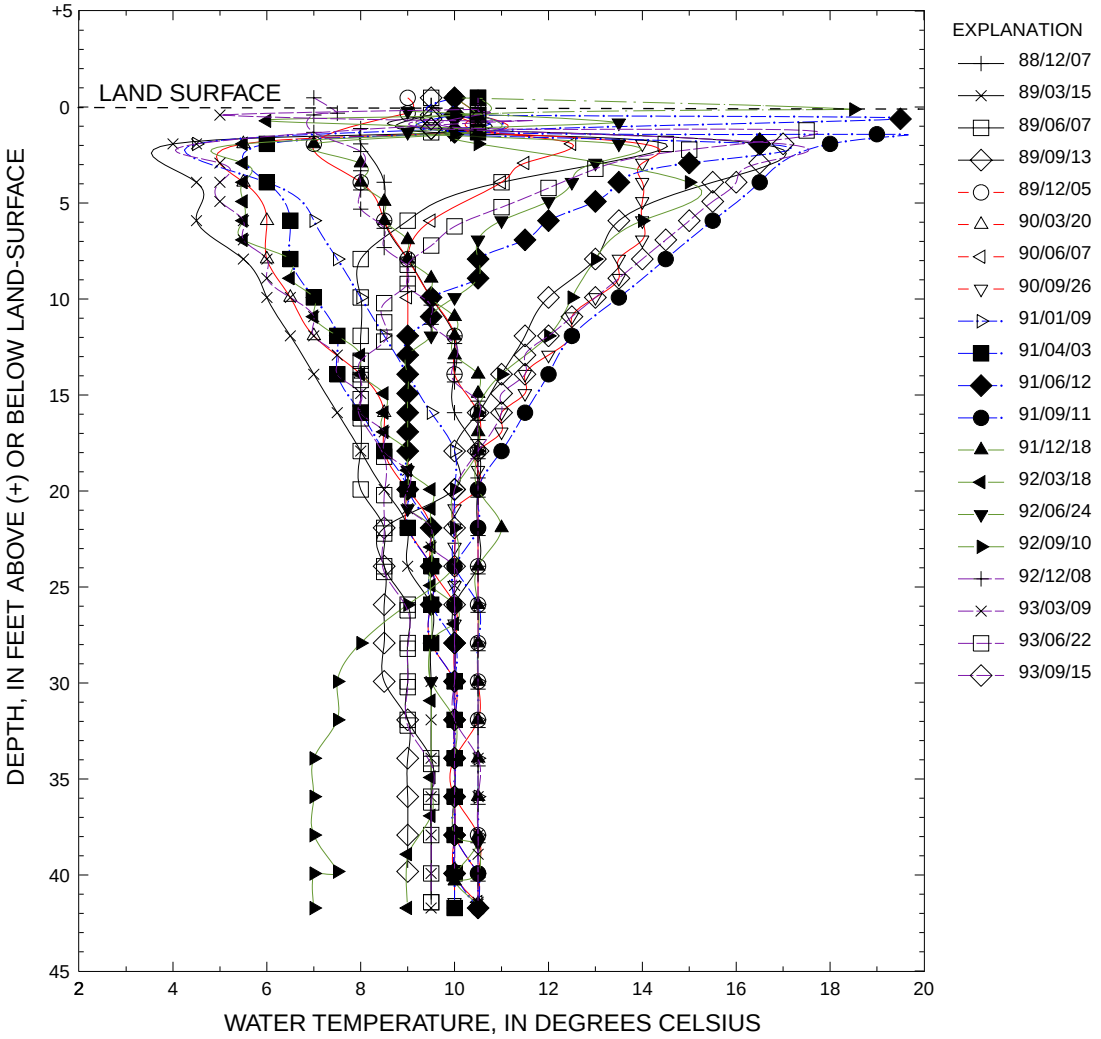
DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
08	61	1.4	130	85	400	--	--	553
MAR								
09	61	1.3	140	81	810	--	--	--
JUN								
22	80	1.4	140	81	760	--	--	580
SEP								
16	75	1.2	140	--	480	--	--	520

430855077304202. Local number Mo 2 (El 84-2)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

	1989 WY				1990 WY				1991 WY				1992 WY				1993 WY			
Depth, in feet	Dec 7	Mar 15	Jun 7	Sep 13	Dec 5	Mar 20	Jun 7	Sep 26	Jan 9	Apr 3	Jun 12	Sep 11	Dec 18	Mar 18	Jun 24	Sep 10	Dec 8	Mar 9	Jun 22	Sep 15
-0.48	--	10.0	9.5	9.5	9.0	10.5	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.5	--	10.0	7.0	--	10.5	--
.42	--	10.0	9.5	9.5	9.0	10.5	10.5	10.0	10.0	10.5	10.0	10.0	10.5	10.5	9.0	10.0	7.0	10.5	10.5	9.5
1.12	8.0	--	--	9.5	--	--	--	14.5	10.0	--	--	--	--	--	--	--	--	--	10.5	9.5
1.22	--	--	--	--	--	--	10.5	--	--	--	--	--	--	10.5	--	--	--	--	17.5	--
1.32	--	10.0	9.5	--	--	10.5	--	10.5	--	10.5	10.0	10.5	10.5	--	9.0	--		--	--	--
1.42	--	--	--	--	--	--	--	--	--	--	--	19.0	--	--	--	10.0	7.0	--	--	--
1.92	8.0	4.0	14.0	16.5	7.0	5.5	12.5	14.0	4.5	6.0	16.5	18.0	7.0	5.5	13.5	10.5	--	4.5	15.0	17.0
2.92	--	--	--	--	--	--	11.5	14.0	--	--	15.0	--	8.0	5.5	13.0	--	8.0	5.0	13.0	16.5
3.92	8.5	4.5	11.0	15.5	8.0	5.5	11.0	14.0	6.0	6.0	13.5	16.5	8.0	5.5	12.5	15.0	8.0	5.0	12.0	16.0
4.92	--	--	--	--	--	--	--	14.0	--	--	13.0	--	8.5	5.5	12.0	--	8.0	5.0	11.0	15.5
5.92	8.5	4.5	9.0	13.5	8.5	6.0	9.5	14.0	7.0	6.5	12.0	15.5	8.5	5.5	11.0	14.0	8.0	5.5	10.0	15.0
6.92	--	--	--	--	--	--	--	14.0	--	--	11.5	--	9.0	5.5	10.5	--	8.5	5.5	9.5	14.5
7.92	9.0	5.5	8.0	13.0	9.0	6.0	9.0	13.5	7.5	6.5	10.5	14.5	9.0	6.5	10.5	13.0	8.5	6.0	9.0	14.0
8.92	--	--	--	--	--	--	--	13.5	--	--	10.5	--	9.5	6.5	10.5	--	9.0	6.0	9.0	13.5
9.92	9.5	6.0	8.0	12.0	9.5	6.5	9.0	13.0	8.0	7.0	9.5	13.5	9.5	7.0	10.0	12.5	9.0	6.5	8.5	13.0
10.92	--	--	--	--	--	--	--	12.5	--	--	9.5	--	10.0	7.0	9.5	--	9.5	7.0	8.5	12.5
11.92	10.0	6.5	8.0	11.5	10.0	7.0	9.0	12.5	8.5	7.5	9.0	12.5	10.0	7.5	9.5	12.0	9.5	7.0	8.5	12.0
12.92	--	--	--	--	--	--	--	12.0	--	--	9.0	--	10.0	8.0	9.0	--	10.0	7.5	8.0	11.5
13.92	10.0	7.0	8.0	11.0	10.0	8.0	9.0	11.5	9.0	7.5	9.0	12.0	10.5	8.0	9.0	11.0	10.0	7.5	8.0	11.5
14.92	--	--	--	--	--	--	--	11.5	--	--	9.0	--	10.5	8.5	9.0	--	10.0	8.0	8.0	11.0
15.92	10.0	7.5	8.0	10.5	10.5	8.5	9.0	11.0	9.5	8.0	9.0	11.5	10.5	8.5	9.0	10.5	10.5	8.0	8.0	11.0
16.92	--	--	--	--	--	--	--	11.0	--	--	9.0	--	10.5	8.5	9.0	--	10.5	8.5	--	--
17.92	10.5	8.0	8.0	10.0	10.5	8.5	9.0	10.5	10.0	8.5	9.0	11.0	10.5	9.0	9.0	10.5	10.5	8.5	8.5	10.5
18.92	--	--	--	--	--	--	--	10.5	--	--	--	--	--	9.0	9.0	--	10.5	9.0	--	--
19.92	10.5	8.5	8.0	10.0	10.5	9.0	9.0	10.5	10.0	9.0	9.0	10.5	10.5	9.5	9.0	10.0	10.5	9.0	8.5	10.0
20.92	--	--	--	--	--	--	--	10.0	--	--	--	--	--	9.5	9.0	--	10.5	9.0	--	--
21.92	10.5	9.0	8.5	8.5	10.5	9.5	9.0	10.0	10.0	9.0	9.5	10.5	11.0	9.5	9.5	10.0	--	9.5	8.5	10.0
22.92	--	--	--	--	--	--	--	10.0	--	--	--	--	--	9.5	--	--	10.5	9.5	--	--
23.92	10.5	9.0	8.5	8.5	10.5	9.5	9.5	10.0	10.0	9.5	9.5	10.0	10.5	9.5	9.5	10.0	--	10.0	8.5	10.0
24.92	--	--	--	--	--	--	--	10.0	--	--	--	--	--	9.5	--	--	10.5	10.0	--	--
25.92	10.0	9.5	9.0	8.5	10.5	10.0	9.5	10.0	10.5	9.5	9.5	10.0	10.5	10.0	9.5	9.0	--	10.0	9.0	10.0
26.92	--	--	--	--	--	--	--	10.0	--	--	--	--	--	10.0	--	--	10.5	--	--	--
27.92	10.0	9.5	9.0	8.5	10.5	10.0	9.5	10.0	10.5	9.5	10.0	10.0	10.5	9.5	9.5	8.0	--	10.0	9.0	10.0
29.92	10.0	9.5	9.0	8.5	10.5	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.5	--	9.5	7.5	10.5	10.0	9.0	10.0
30.92	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	--	10.5	--	--	--
31.92	10.0	9.5	9.0	9.0	10.5	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.5	--	10.0	7.5	--	10.0	9.0	10.0
33.92	10.0	9.5	9.5	9.0	10.0	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.5	--	10.0	7.0	10.5	10.5	9.5	10.0
34.92	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	--	10.5	--	--	--
35.92	10.0	9.5	9.5	9.0	10.0	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.5	--	10.0	7.0	--	10.5	9.5	10.0
36.92	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	--	10.5	--	--	--
37.92	10.0	9.5	9.5	9.0	10.5	10.0	10.0	10.0	10.5	10.0	10.0	10.0	10.5	--	10.0	7.0	--	10.5	9.5	10.0
38.92	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	--	10.5	10.5	--	--
39.92	10.0	9.5	9.5	9.0	10.5	10.5	10.0	10.0	10.5	10.0	10.0	10.5	10.5	--	10.0	7.0	--	10.5	9.5	10.0
41.72	10.0	9.5	9.5	--	10.5	10.5	10.5	10.0	10.5	10.0	10.5	10.5	10.5	9.0	10.0	7.0	--	10.5	9.5	--

430855077304202. Local number Mo 2 (El 84-2)--continued



GROUND-WATER LEVELS

Ellison park

430854077304601. Local number Mo 3 (El 84-3)

LOCATION.--Lat 43˚08’54", long 77˚30’46", Hydrologic Unit 04140101, on right bank of Irondequoit Creek, north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 16 ft, cased to 13.5 ft, screened 13.5 ft to 16 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel and occasional measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 253.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: arrow at top of casing, 3.74 ft above land-surface datum.

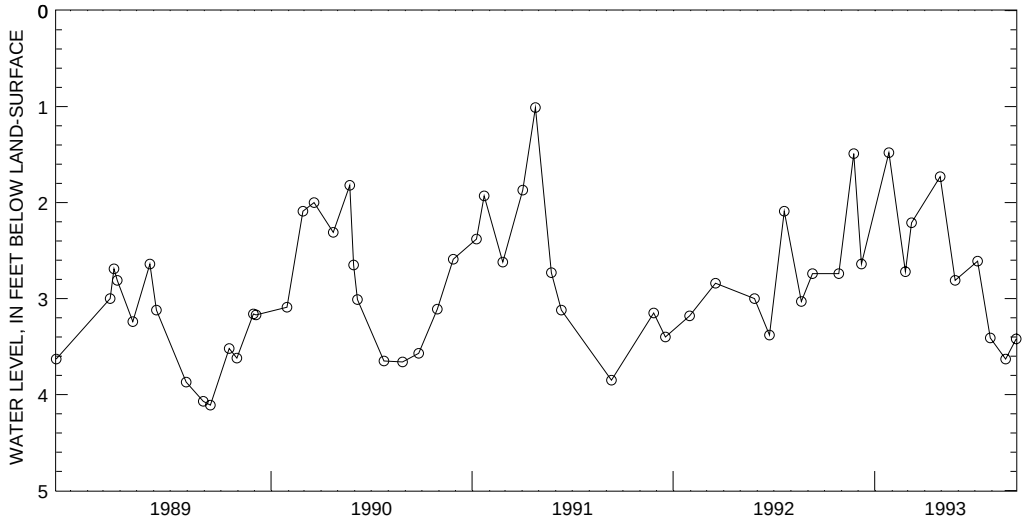
REMARKS.--Water level affected by stage of Irondequoit Creek. This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--September 1984 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1984 TO SEPTEMBER 1993.--Highest water level measured, 2.03 feet above land-surface datum, February 27, 1985; lowest measured, 4.11feet below land-surface datum, September 13, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
DEC	7	3.63	MAR	28	2.81	JUN	7	3.12	SEP	13	4.11
MAR	15	3.00	APR	25	3.24	JUL	31	3.87			
	22	2.69	MAY	26	2.64	AUG	31	4.07			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	17	3.52	JAN	30	3.09	MAY	24	1.82	AUG	28	3.66
	31	3.62	FEB	28	2.09		31	2.65	SEP	26	3.57
NOV	30	3.16	MAR	20	2.00	JUN	7	3.01			
DEC	5	3.17	APR	24	2.31	JUL	25	3.65			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	3.11	JAN	23	1.93	APR	26	1.01	SEP	11	3.85
NOV	28	2.59	FEB	26	2.62	MAY	25	2.73			
JAN	9	2.38	APR	3	1.87	JUN	12	3.12			
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
NOV	27	3.15	MAR	18	2.84	JUN	24	3.38	AUG	21	3.03
DEC	18	3.40	MAY	28	3.00	JUL	21	2.09	SEP	10	2.74
JAN	31	3.18									
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	2.74	JAN	27	1.48	APR	30	1.73	JUL	30	3.41
NOV	24	1.49	FEB	26	2.72	MAY	27	2.81	AUG	27	3.63
DEC	8	2.64	MAR	9	2.21	JUL	7	2.61	SEP	15	3.42



430854077304601. Local number Mo 3 (El 84-3)--continued

PERIOD OF RECORD.-- January 1986 to current year.
CHEMICAL DATA: 1986(a) 1987-93(b).
ORGANIC DATA: OC.--1986(a) 1987-93(b).
NUTRIENT DATA: 1986(a) 1987-93(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	--	4.3	1	1360	<0.1	<10	--	17	240	<0.01
MAR										
15	9.0	2.8	4	1390	.8	10	7.6	17	245	<.01
JUN										
07	10.5	1.0	1	1330	<.1	<10	7.6	9.3	245	<.01
SEP										
13	--	1.1	3	1370	.3	<10	7.6	18	242	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	0.29	0.51	0.045	0.003	0.6	410	110	--	30
MAR									
15	.38	.50	.015	.002	1.2	430	120	120	31
JUN									
07	.54	.45	.010	.003	.9	390	110	110	29
SEP									
13	.18	.54	.015	.004	.4	400	110	110	28

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	130	3.3	260	82	1800	<1	805	758
MAR								
15	140	2.9	270	80	310	<1	784	791
JUN								
07	130	2.6	250	160	200	<1	795	795
SEP								
13	130	2.6	250	79	150	6	783	749

430854077304601. Local number Mo 3 (El 84-3)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	0.95	2	1320	1.1	<10	7.6	13	245	<0.01
MAR										
20	--	.70	--	1300	.7	--	7.6	12	--	<.01
JUN										
07	--	.7	--	1310	2.3	--	7.6	16	--	<.01
SEP										
26	--	1.3	--	1330	.6	--	7.6	15	--	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.16	0.46	0.030	0.003	0.9	390	110	110	27
MAR									
20	.22	.05	.005	.004	--	380	--	110	28
JUN									
07	.32	.52	.015	.003	--	390	--	110	28
SEP									
26	<.10	.55	.030	.003	--	390	--	110	26

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	130	3.0	240	80	150	<2	765	740
MAR								
20	130	2.4	240	79	130	--	--	777
JUN								
07	130	2.5	240	75	120	--	--	790
SEP								
26	120	2.5	240	38	360	--	--	766

430854077304601. Local number Mo 3 (El 84-3)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	TOTAL COLOR (PLAT-INUM COBALT UNITS)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	OXYGEN, DIS-SOLVED (mg/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L)	PH (STAND-ARD UNITS)	CARBON DIOXIDE DIS-SOLVED (mg/L as CO_2)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)
DEC										
18	--	0.80	--	1290	6.8	--	7.5	15	--	<0.01
MAR										
18	--	1.7	--	1290	1.2	--	7.6	15	--	<.01
JUN										
24	--	.75	--	1320	2.2	--	7.5	15	--	<.01
SEP										
10	--	1.0	--	1320	1.4	--	7.6	13	--	<.01

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARD-NESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOV-ERABLE (mg/L as Ca)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)
DEC									
18	0.37	0.33	0.005	0.005	--	380	--	110	26
MAR									
18	.17	.26	.010	.005	--	380	--	100	27
JUN									
24	.45	.49	.010	.003	--	380	--	100	28
SEP									
10	.14	.52	.015	.005	--	380	--	100	26

DATE	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (µg/L as SO_4)	IRON, TOTAL RECOV-ERABLE (mg/L as Fe)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (mg/L)
DEC								
18	130	3.2	230	86	70	--	--	769
MAR								
18	130	3.8	230	77	180	--	--	751
JUN								
24	130	2.8	240	80	340	--	--	757
SEP								
10	130	3.0	250	91	290	--	--	758

430854077304601. Local number Mo 3 (El 84-3)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
08	--	1.1	--	1300	0.5	--	7.4	14	--	<0.01
MAR										
09	--	1.2	--	1280	1.2	--	7.6	16	--	<.01
JUN										
22	--	.60	--	1270	.6	--	7.8	13	--	<.01
SEP										
16	--	.90	--	1280	.5	--	7.7	13	--	<.01

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
08	0.13	0.45	0.010	.004	--	370	--	110	27
MAR									
09	.16	.39	.010	.004	--	370	--	100	26
JUN									
22	.29	.45	.005	.003	--	370	--	120	33
SEP									
16	.49	.51	.010	.006	--	370	--	100	25

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
08	130	2.5	240	100	360	--	--	760
MAR								
09	120	2.3	230	87	180	--	--	--
JUN								
22	120	5.2	220	86	140	--	--	753
SEP								
16	130	2.1	230	88	310	--	--	760

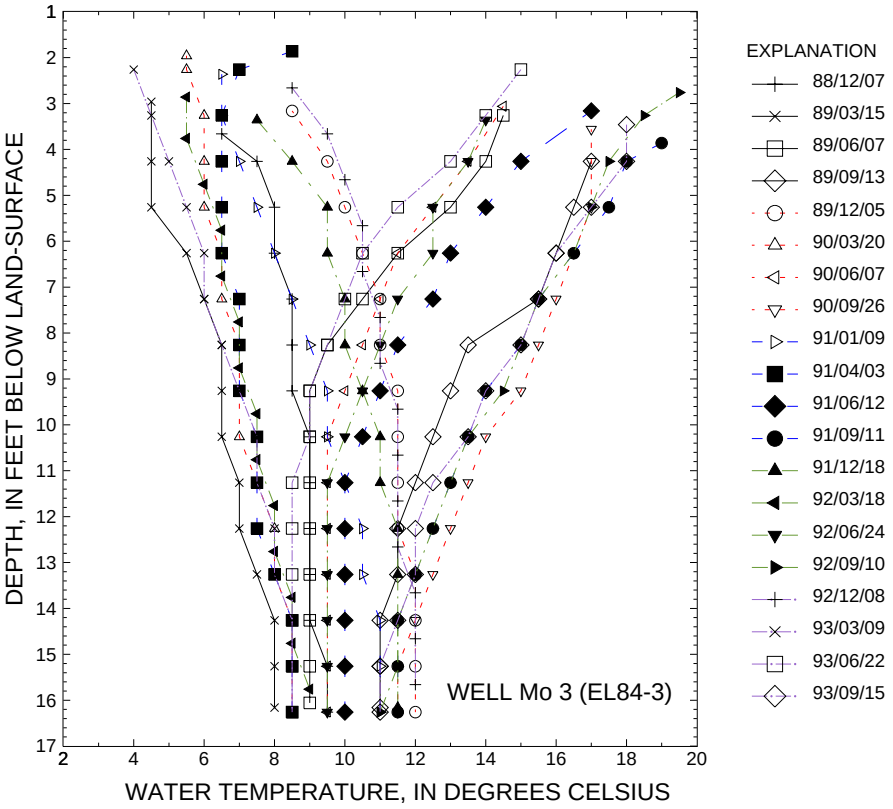
GROUND-WATER TEMPREATURES

Ellison park

430854077304601. Local number Mo 3 (El 84-3)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

	1989 WY				1990 WY				1991 WY				1992 WY				1993 WY			
Depth, in feet	Dec 7	Mar 15	Jun 7	Sep 13	Dec 5	Mar 20	Jun 7	Sep 26	Jan 9	Apr 3	Jun 12	Sep 11	Dec 18	Mar 18	Jun 24	Sep 10	Dec 8	Mar 9	Jun 22	Sep 15
1.96	--	--	--	--	--	5.5	--	--	--	8.5	--	--	--	--	--	--	--	--	--	--
2.26	--	--	--	--	--	5.5	--	--	6.5	7.0	--	--	--	--	--	--	8.5	4.0	15.0	--
2.76	--	--	--	--	--	--	--	--	--	--	--	--	--		--	19.5	--	--	--	--
3.26	--	4.5	14.5	--	8.5	6.0	14.5	--	6.5	6.5	17.0	--	7.5	5.5	14.0	18.5	9.5	4.5	14.0	--
3.76	6.5	--	--	--	--	--	--	17.0	--	--	--	19.0	--	--	--	--	--	--	--	18.0
4.26	7.5	4.5	14.0	17.0	9.5	6.0	13.5	17.0	7.0	6.5	15.0	18.0	8.5	5.5	13.5	17.5	10.0	5.0	13.0	18.0
5.26	8.0	4.5	13.0	16.5	10.0	6.0	12.5	17.0	7.5	6.5	14.0	17.5	9.5	6.0	12.5	17.0	10.5	5.5	11.5	17.0
6.26	8.0	5.5	11.5	16.0	10.5	6.5	11.5	16.5	8.0	6.5	13.0	16.5	9.5	6.5	12.5	16.5	10.5	6.0	10.5	16.0
7.26	8.5	6.0	10.5	15.5	11.0	6.5	11.0	16.0	8.5	7.0	12.5	15.5	10.0	6.5	11.5	15.5	11.0	6.0	10.0	15.5
8.26	8.5	6.5	9.5	13.5	11.0	7.0	10.5	15.5	9.0	7.0	11.5	15.0	10.0	7.0	11.0	15.0	11.0	6.5	9.5	15.0
9.26	8.5	6.5	9.0	13.0	11.5	7.0	10.0	15.0	9.5	7.0	11.0	14.0	10.5	7.0	10.5	14.5	11.5	7.0	9.0	14.0
10.26	9.0	6.5	9.0	12.5	11.5	7.0	9.5	14.0	9.5	7.5	10.5	13.5	11.0	7.5	10.0	13.5	11.5	7.5	9.0	13.5
11.26	9.0	7.0	9.0	12.0	11.5	7.5	9.5	13.5	10.0	7.5	10.0	13.0	11.0	7.5	9.5	13.0	11.5	7.5	8.5	12.5
12.26	9.0	7.0	9.0	11.5	11.5	8.0	9.5	13.0	10.5	7.5	10.0	12.5	11.5	8.0	9.5	12.5	11.5	8.0	8.5	12.0
13.26	9.0	7.5	9.0	11.5	12.0	8.0	9.5	12.5	10.5	8.0	10.0	12.0	11.5	8.0	9.5	12.0	12.0	8.0	8.5	12.0
14.26	9.0	8.0	9.0	11.0	12.0	8.5	9.5	12.0	11.0	8.5	10.0	11.5	11.5	8.5	9.5	11.5	12.0	8.5	8.5	11.5
15.26	9.5	8.0	9.0	11.0	12.0	8.5	9.5	11.5	11.0	8.5	10.0	11.5	11.5	8.5	9.5	11.5	12.0	8.5	8.5	11.0
16.16	9.5	8.0	9.0	11.0	12.0	8.5	9.5	11.5	11.0	8.5	10.0	11.5	11.5	9.0	9.5	11.0	9.5	8.5	8.5	11.0



GROUND-WATER LEVELS

Ellison park

430854077304901. Local number Mo 4 (El 84-4)

LOCATION.--Lat 43˚08'54", long 77˚30'49", Hydrologic Unit 04140101, on left bank of Irondequoit Creek, north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 16 ft, cased to 13.5 ft, screened 13.5 ft to 16 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel and occasional measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 252.70 ft above National Geodetic Vertical Datum of 1929. Measuring point: arrow at top of casing, 3.31 ft above land-surface datum.

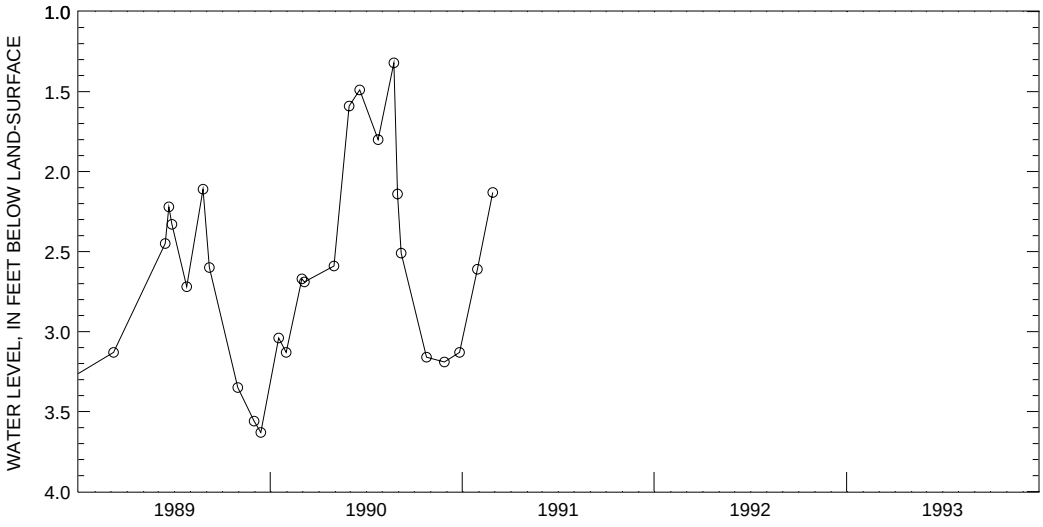
REMARKS.--Water level affected by stage of Irondequoit Creek. This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--September 1984 to November 1990, (discontinued).

EXTREMES FOR PERIOD SEPTEMBER 1984 TO NOVEMBER 1990.--Highest water level measured, 2.03 feet above land-surface datum, February 27, 1985; lowest measured, 3.63 feet below land-surface datum, September 13, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989											
DEC	7	3.13	MAR	28	2.33	JUN	7	2.60	SEP	13	3.63
MAR	15	2.45	APR	25	2.72	JUL	31	3.53			
	22	2.22	MAY	26	2.11	AUG	31	3.56			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	17	3.04	JAN	30	2.59	MAY	24	1.32	AUG	28	3.19
	31	3.13	FEB	28	1.59		31	2.14	SEP	26	3.13
NOV	30	2.67	MAR	20	1.49	JUN	7	2.51			
DEC	5	2.69	APR	24	1.80	JUL	25	3.16			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	2.61	NOV	28	2.13						



430854077304901. Local number Mo 4 (El 84-4)--continued

PERIOD OF RECORD.-- January 1986 to November 1990 (discontinued)..
CHEMICAL DATA: 1986(a) 1987-90(b).
ORGANIC DATA: OC.--1986(a) 1987-90(b).
NUTRIENT DATA: 1986(a) 1987-90(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-90(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	--	5.0	8	879	<0.1	<10	--	17	256	0.39
MAR										
15	8.5	5.3	6	896	<.1	<10	7.6	17	283	.39
JUN										
07	10.0	4.7	13	850	<.1	<10	7.6	22	306	.47
SEP										
13	--	2.7	10	909	<.1	<10	7.6	13	236	.27

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	0.86	<0.01	0.060	0.013	3.1	400	110	--	32
MAR									
15	1.1	<.01	.070	.012	3.9	400	110	110	31
JUN									
07	1.1	<.01	.080	.016	4.0	380	100	100	31
SEP									
13	.59	<.01	.040	.008	2.2	380	100	100	29

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µG/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	33	1.6	110	49	800	1	512	485
MAR								
15	34	1.4	100	36	670	<1	506	482
JUN								
07	32	1.2	91	14	880	<1	511	463
SEP								
13	39	1.2	120	57	470	<1	504	487

430854077304901. Local number Mo 4 (El 84-4)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
05	--	2.2	11	854	<0.1	<10	7.6	12	242	0.30
MAR										
20	--	6.0	--	821	--	--	7.7	16	--	.44
JUN										
07	--	2.0	--	823	<.1	--	7.6	18	--	.35
SEP										
26	--	2.0	--	849	.2	--	7.6	16	--	.38

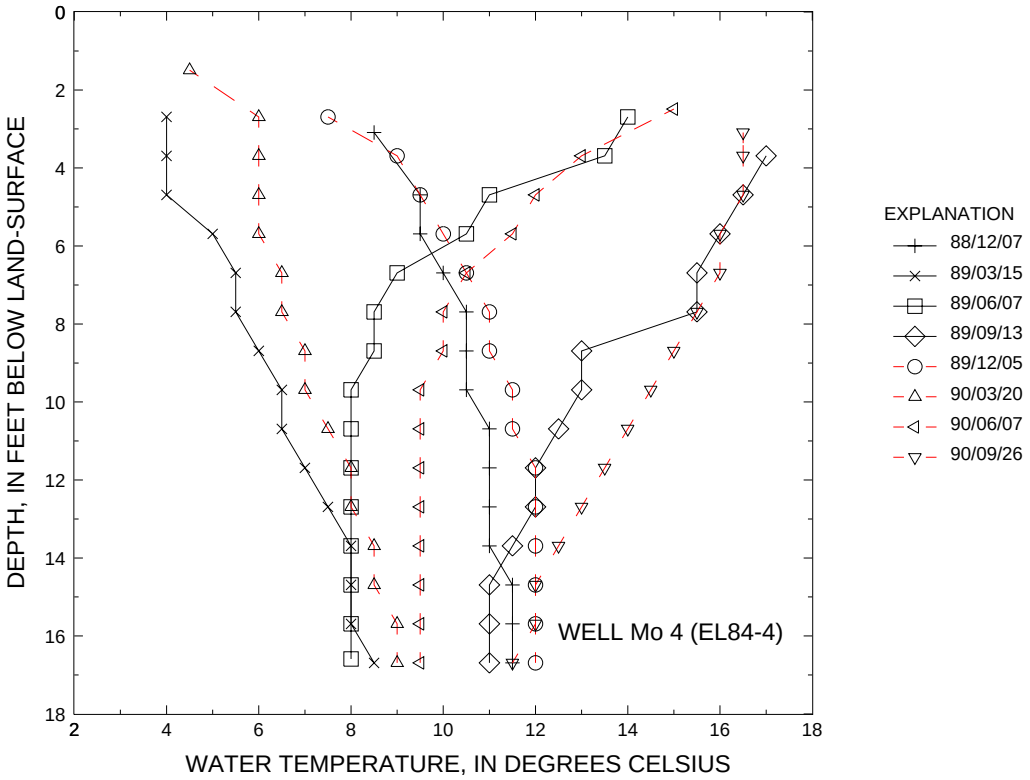
DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
05	0.73	<0.01	0.055	.006	2.7	370	100	100	29
MAR									
20	.81	<.01	.050	.017	--	390	--	110	31
JUN									
07	.58	.02	.055	.015	--	380	--	100	31
SEP									
26	.29	<.01	.490	.016	--	370	--	94	27

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
05	39	1.4	110	54	350	<2	490	479
MAR								
20	35	1.2	79	12	300	--	--	485
JUN								
07	37	1.3	51	30	320	--	--	506
SEP								
26	40	1.2	100	18	370	--	--	504

430854077304901. Local number Mo 4 (El 84-4)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1989 WY				1990 WY			
	Dec 7	Mar 15	Jun 7	Sep 13	Dec 5	Mar 20	Jun 7	Sep 26
1.49	--	--	--	--	--	4.5	--	--
2.49	--	--	--	--	--	--	15.0	--
2.69	--	4.0	14.0	--	7.5	6.0	--	--
3.09	8.5	--	--	--	--	--	--	16.5
3.69	--	4.0	13.5	17.0	9.0	6.0	13.0	16.5
4.69	9.5	4.0	11.0	16.5	9.5	6.0	12.0	16.5
5.69	9.5	5.0	10.5	16.0	10.0	6.0	11.5	16.0
6.69	10.0	5.5	9.0	15.5	10.5	6.5	10.5	16.0
7.69	10.5	5.5	8.5	15.5	11.0	6.5	10.0	15.5
8.69	10.5	6.0	8.5	13.0	11.0	7.0	10.0	15.0
9.69	10.5	6.5	8.0	13.0	11.5	7.0	9.5	14.5
10.69	11.0	6.5	8.0	12.5	11.5	7.5	9.5	14.0
11.69	11.0	7.0	8.0	12.0	12.0	8.0	9.5	13.5
12.69	11.0	7.5	8.0	12.0	12.0	8.0	9.5	13.0
13.69	11.0	8.0	8.0	11.5	12.0	8.5	9.5	12.5
14.69	11.5	8.0	8.0	11.0	12.0	8.5	9.5	12.0
15.69	11.5	8.0	8.0	11.0	12.0	9.0	9.5	12.0
16.69	11.5	8.5	8.0	11.0	12.0	9.0	9.5	11.5



430855077305201. Local number Mo 5 (El 84-5)

LOCATION.--Lat 43˚08’55", long 77˚30’52", Hydrologic Unit 04140101, in main parking lot, south of Irondequoit Creek, north of Blossom Road. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 43 ft, cased to 39 ft, screened 39 ft to 43 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel and occasional measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 251.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: arrow at top of casing, 3.64 ft above land-surface datum.

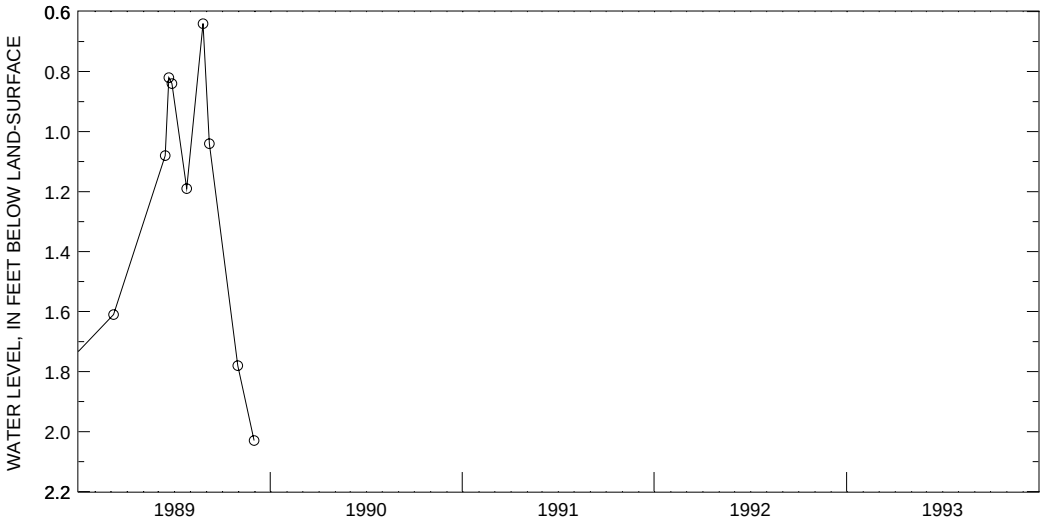
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--September 1984 to August 1989, (discontinued).

EXTREMES FOR PERIOD SEPTEMBER 1984 TO AUGUST 1989.--Highest water level measured, 1.63 feet above land-surface datum, April 17, 1986; lowest measured, 2.09 feet below land-surface datum, August 21, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
PERIOD OCTOBER 1988 TO AUGUST 1989							
DEC 7	1.61	MAR 22	.82	APR 25	1.19	JUN 7	1.04
MAR 15	1.08	MAR 28	0.84	MAY 26	.64	JUL 31	1.78
						AUG 31	2.03



430855077305201. Local number Mo 5 (El 84-5)--continued

PERIOD OF RECORD.-- January 1986 to August 1989 (discontinued)..
CHEMICAL DATA: 1986(a) 1987-89(b).
ORGANIC DATA: OC.--1986(a) 1987-89(b).
NUTRIENT DATA: 1986(a) 1987-89(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-89(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD OCTOBER 1988 TO JUNE 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	--	8.3	1	822	<0.1	<10	--	9.4	196	--
MAR										
15	9.0	8.0	3	840	.2	<10	7.8	7.8	199	0.02
JUN										
07	10.0	7.8	2	823	<.1	<10	7.8	9.3	201	.03

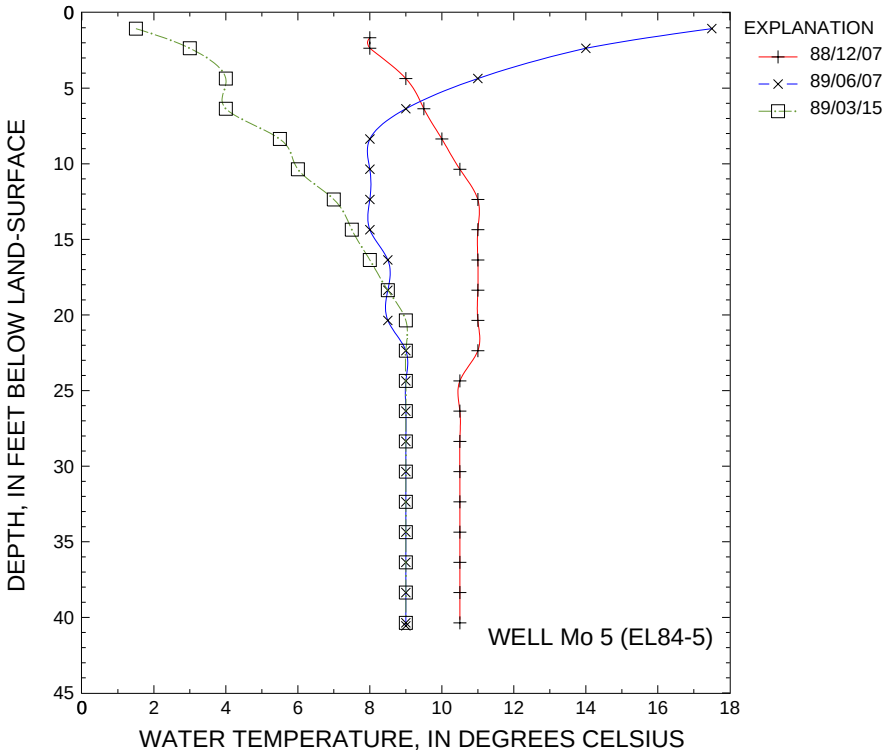
DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	--	<0.01	0.040	0.003	104	400	100	--	37
MAR									
15	.42	<.01	.050	<.002	1.5	420	100	100	38
JUN									
07	.70	<.01	.060	.004	1.3	390	95	95	36

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	18	1.3	100	84	830	<1	483	463
MAR								
15	19	.4	100	81	900	<1	488	466
JUN								
07	18	1.1	110	80	850	<1	499	457

430855077305201. Local number Mo 5 (El 84-5)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1988 WY	1989 WY	
	Dec 7	Jun 7	Sep 15
1.06	--	17.5	1.5
1.66	8.0	--	--
2.36	8.0	14.0	3.0
4.36	9.0	11.0	4.0
6.36	9.5	9.0	4.0
8.36	10.0	8.0	5.5
10.36	10.5	8.0	6.0
12.36	11.0	8.0	7.0
14.36	11.0	8.0	7.5
16.36	11.0	8.5	8.0
18.36	11.0	8.5	8.5
20.36	11.0	8.5	9.0
22.36	11.0	9.0	9.0
24.36	10.5	9.0	9.0
26.36	10.5	9.0	9.0
28.36	10.5	9.0	9.0
30.36	10.5	9.0	9.0
32.36	10.5	9.0	9.0
34.36	10.5	9.0	9.0
36.36	10.5	9.0	9.0
38.36	10.5	9.0	9.0
40.36	10.5	9.0	9.0
40.56	--	9.0	--



GROUND-WATER LEVELS

Ellison park

430855077305202. Local number Mo 6 (El 84-6)

LOCATION.--Lat 43˚08’55", long 77˚30’52", Hydrologic Unit 04140101, in main parking lot, south of Irondequoit Creek, north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Water-table aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 16 ft, cased to 13 ft, screened 13 ft to 16 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel and occasional measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 251.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: arrow at top of casing, 4.53 ft above land-surface datum; prior to September 30, 1985, 4.26 ft above land-surface datum.

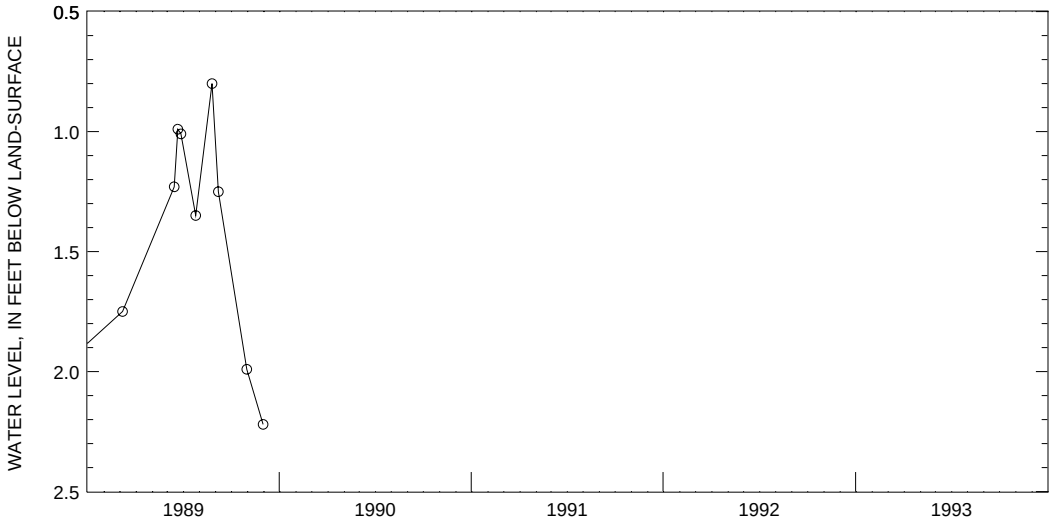
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

PERIOD OF RECORD.--September 1984 to August 1989 (discontinued).

EXTREMES FOR PERIOD SEPTEMBER 1984 TO AUGUST 1989.--Highest water level measured, 1.64 feet above land-surface datum, February 24, 1985; lowest measured, 2.22 feet below land-surface datum, August 31, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
PERIOD OCTOBER 1988 TO AUGUST 1989							
DEC 7	1.75	MAR 22	.99	APR 25	1.35	JUN 7	1.25
MAR 15	1.23	MAR 28	1.01	MAY 26	.80	JUL 31	1.99
						AUG 31	2.22



430855077305202. Local number Mo 6 (El 84-6)--continued

PERIOD OF RECORD.-- January 1986 to August 1989 (discontinued).
CHEMICAL DATA: 1986(a) 1987-89(b).
ORGANIC DATA: OC.--1986(a) 1987-89(b).
NUTRIENT DATA: 1986(a) 1987-89(b).
BIOLOGICAL DATA:
Bacteria.--1986(a) 1987-89(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD OCTOBER 1988 TO JUNE 1989

DATE	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	TOTAL COLOR (PLATINUM COBALT UNITS)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	ALKALINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$)	NITROGEN, AMMONIA DISSOLVED (mg/L as N)
DEC										
07	--	1.6	1	832	<0.1	<10	--	14	242	0.14
MAR										
15	8.0	5.3	5	854	<.1	<10	7.7	13	261	.12
JUN										
07	9.5	1.0	2	819	<.1	<10	7.7	13	269	.13

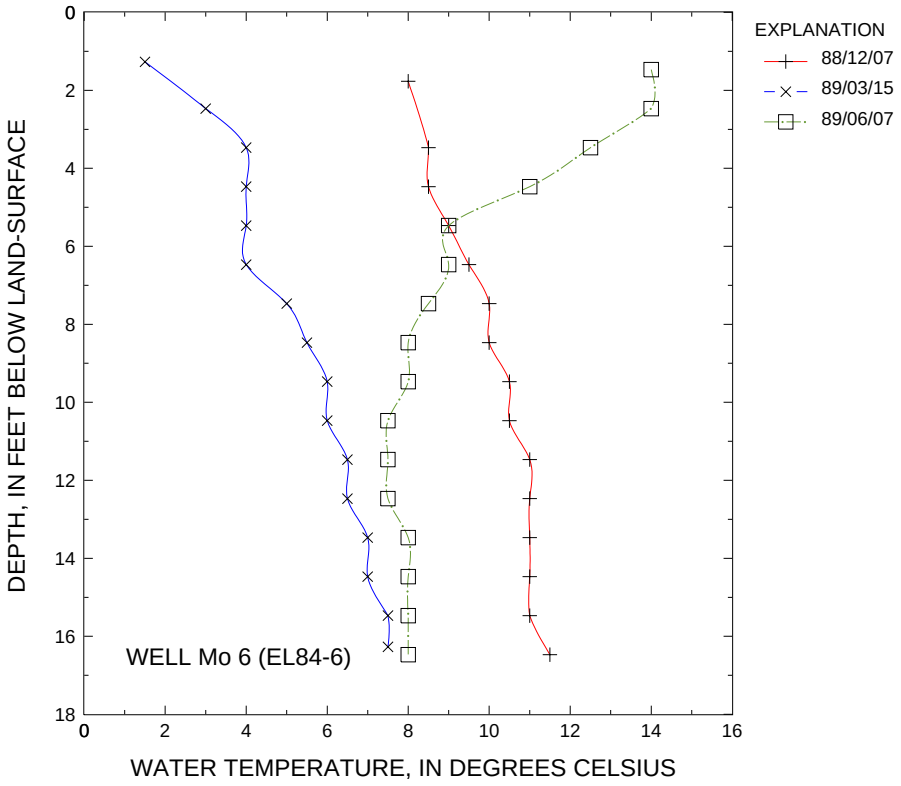
DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)	CARBON, ORGANIC TOTAL (mg/L as C)	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	CALCIUM DISSOLVED (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)
DEC									
07	0.42	0.01	0.055	0.042	1.7	410	100	--	36
MAR									
15	.46	<.01	.070	.044	1.7	410	100	100	37
JUN									
07	.48	<.01	.055	.050	1.5	390	97	97	36

DATE	SODIUM, DISSOLVED (mg/L as Na)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON, TOTAL RECOVERABLE (µg/L as Fe)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ml)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (mg/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC								
07	23	1.3	99	57	160	<1	504	465
MAR								
15	24	1.2	93	24	400	<1	470	438
JUN								
07	25	1.0	92	39	110	620	486	452

430855077305202 local number Mo 6 (EL84-6)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1988 WY	1989 WY	
	Dec 7	Mar 15	Jun 7
1.27	--	1.5	--
1.47	--	--	14.0
1.77	8.0	--	--
2.47	--	3.0	14.0
3.47	8.5	4.0	12.5
4.47	8.5	4.0	11.0
5.47	9.0	4.0	9.0
6.47	9.5	4.0	9.0
7.47	10.0	5.0	8.5
8.47	10.0	5.5	8.0
9.47	10.5	6.0	8.0
10.47	10.5	6.0	7.5
11.47	11.0	6.5	7.5
12.47	11.0	6.5	7.5
13.47	11.0	7.0	8.0
14.47	11.0	7.0	8.0
15.47	11.0	7.5	8.0
16.27	--	7.5	--
16.47	11.5	--	8.0



GROUND-WATER LEVELS

Ellison park

430932077311501. Local number Mo 659

LOCATION.--Lat 43˚09’32", long 77˚31’15", Hydrologic Unit 04140101, at top of right bank about 400 ft north east of bridge over Irondequoit Creek overflow channel at Old Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 215 ft, cased to 215 ft, perforated 80 to 90 ft and 160 to 170 ft, openended at 215 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel; periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 266.58 ft above sea level. Measuring point: arrow at top of casing, 1.80 ft above land-surface datum.

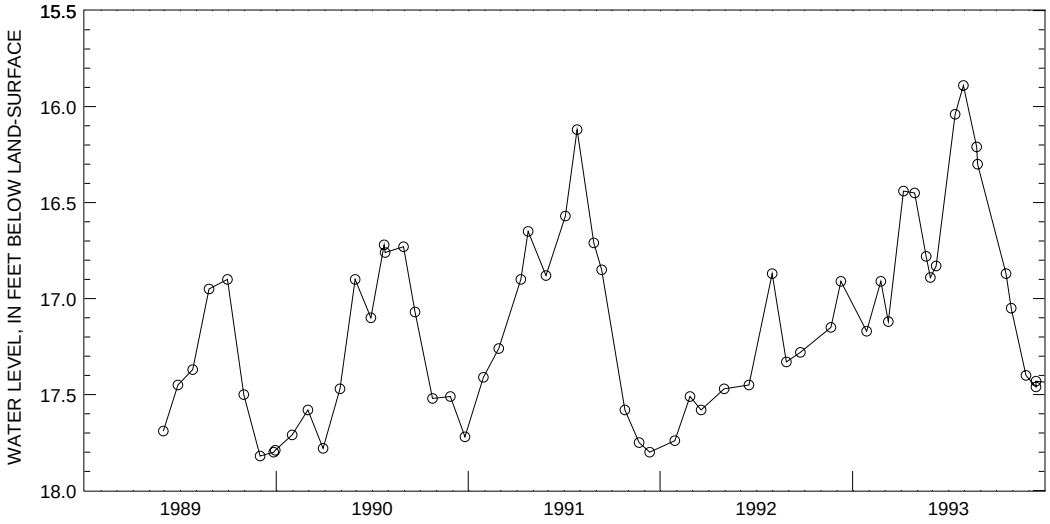
REMARKS.--Well also sampled for water-quality.

PERIOD OF RECORD.--December 1986 to current year.

EXTREMES FOR PERIOD DECEMBER 1986 TO SEPTEMBER 1993.--Highest water level measured, 15.89 ft below land-surface datum, Apr. 30, 1993; lowest measured, 17.82 ft below land-surface datum, Sept. 12, 1988, Aug. 31, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD SEPTEMBER 1988 TO SEPTEMBER 1989											
SEP	12	17.82	APR	25	17.37	JUL	31	17.50	SEP	26	17.80
FEB	28	17.69	MAY	26	16.95	AUG	31	17.82		29	17.79
MAR	28	17.45	JUN	30	16.90						
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	31	17.71	FEB	28	16.90	MAY	31	16.73	SEP	25	17.72
NOV	30	17.58	MAR	30	17.10	JUN	22	17.07			
DEC	29	17.78	APR	24	16.72	JUL	25	17.52			
JAN	30	17.47		26	16.76	AUG	28	17.51			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	17.41	JAN	23	16.65	APR	26	16.12	JUL	26	17.58
NOV	28	17.26	FEB	26	16.88	MAY	28	16.71	AUG	22	17.75
JAN	9	16.90	APR	4	16.57	JUN	12	16.85	SEP	11	17.80
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	17.74	JAN	31	17.47	MAY	28	17.33	SEP	9	16.91
NOV	27	17.51	MAR	18	17.45	JUN	24	17.28			
DEC	18	17.58	MAY	1	16.87	AUG	21	17.15			
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	17.17	FEB	18	16.78	MAY	25	16.21	SEP	15	17.46
NOV	24	16.91		26	16.89		27	16.30			
DEC	8	17.12	MAR	9	16.83	JUL	20	16.87			
JAN	6	16.44	APR	14	16.04		30	17.05			
	27	16.45		30	15.89	AUG	27	17.40			



GROUND-WATER QUALITY

Ellison park

430932077311501. Local number Mo 659 (B86-2)--continued

PERIOD OF RECORD.-- January 1991 to current year.
CHEMICAL DATA: 1991-93(b).
ORGANIC DATA: OC.--1991-93(b).
NUTRIENT DATA: 1991-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD JANUARY 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
JAN										
09	9.0	510	0.4	9.4	<0.2	<0.01	0.24	<0.01	<0.005	0.003
APR										
04	9.1	522	.3	9.5	<.2	<.01	<.10	--	.005	.003
JUN										
12	13	523	<.1	9.5	<.1	<.01	.86	.11	<.005	<.002
SEP										
11	9.0	538	--	9.2	<.2	<.01	.35	<.05	<.005	.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN									
09	90	11	16	57	8.0	140	<10	3400	248
APR									
04	92	11	17	57	7.9	140	<10	2200	235
JUN									
12	95	4.0	9.0	60	8.0	140	<10	7800	268
SEP									
11	97	12	18	58	6.4	150	40	2000	252

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
18	9.2	551	11.5	8.4	<0.2	0.02	0.22	<0.05	<0.005	0.002
MAR										
18	15	510	.4	9.3	<.2	.01	.21	<.05	.005	<.002
JUN										
24	12	564	.9	9.0	<.2	<.01	.53	<.05	<.005	<.002
SEP										
09	6.6	579	.4	9.0	<.2	.01	.40	<.05	<.005	<.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
18	100	10	18	66	18	220	<10	3100	262
MAR									
18	110	10	20	57	8.7	210	<10	4200	264
JUN									
24	100	9.0	20	61	7.3	150	<10	5000	277
SEP									
09	100	32	28	66	7.3	150	<10	1400	283

430932077311501. Local number Mo 659 (B86-2)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN,AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
08	12	576	1.0	8.3	<0.2	0.01	0.12	<0.05	0.005	0.002
MAR										
09	6.8	1590	2.4	9.3	149	<.01	.15	<.05	.005	.002
JUL										
07	11	866	6.2	8.0	2.0	<.01	.23	<.05	.005	<.002

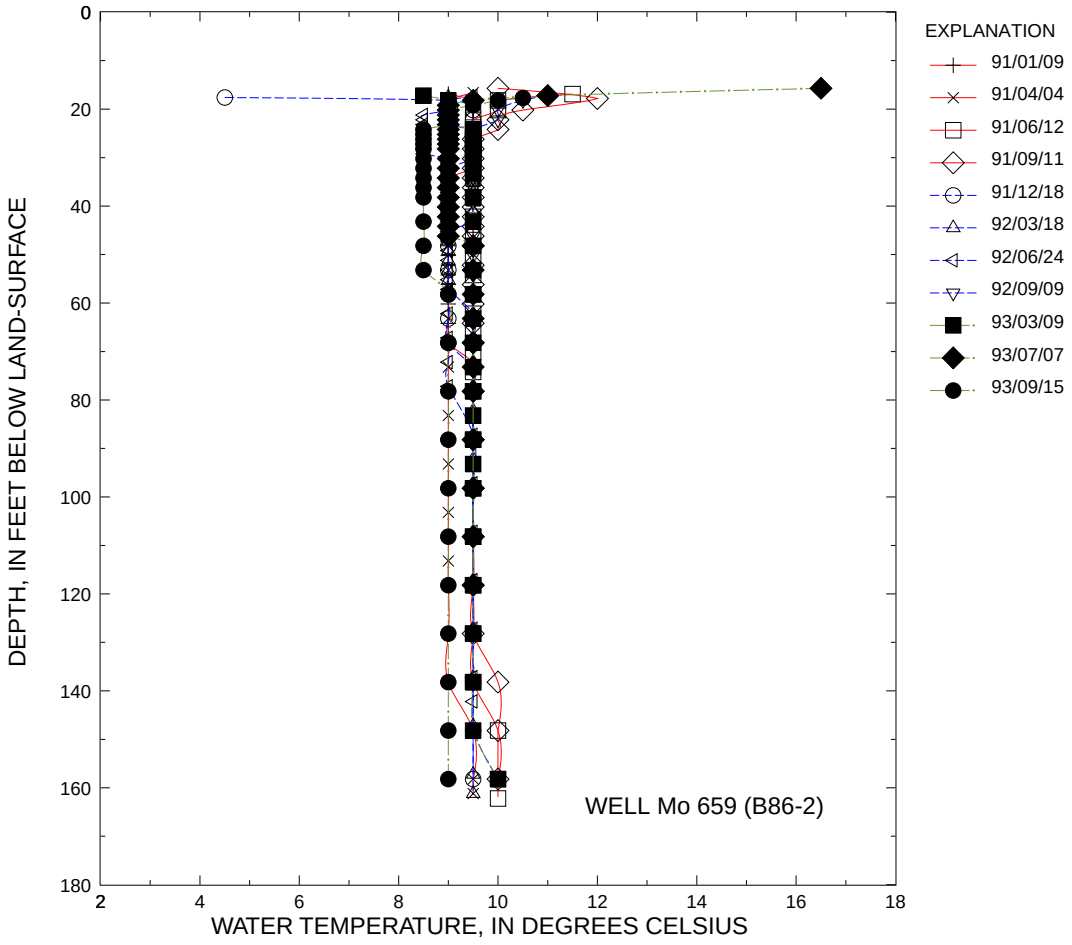
DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
08	120	10	22	58	7.1	160	<5.0	3100	288
MAR									
09	210	210	54	62	3.3	220	6.0	16000	--
JUL									
07	280	23	46	72	3.2	230	<5.0	3200	432

430932077311501. Local number Mo 659 (B86-2)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1991 WY				1992 WY				1993 WY			
	Jan 9	Apr 4	Jun 12	Sep 11	Dec 18	Mar 18	Jun 24	Sep 9	Dec 8	Mar 9	Jul 7	Sep 15
15.70	--	--	--	10.0	--	--	--	--	--	--	16.5	--
16.60	--	9.5	--	--	--	--	--	--	--	--	--	--
16.90	9.0	--	11.5	--	--	--	--	11.0	10.0	8.5	11.0	--
17.50	--	--	--	12.0	4.5	9.0	9.5	--	--	--	--	10.5
18.20	9.5	9.0	10.0	--	9.0	9.0	9.0	10.5	10.0	9.0	9.5	10.0
19.20	--	--	--	--	--	9.0	9.0	--	9.5	9.0	9.0	9.5
20.20	9.5	9.0	10.0	10.5	9.5	9.0	9.0	10.0	9.5	9.0	9.0	9.0
22.20	9.5	9.0	9.5	10.0	9.5	9.0	8.5	10.0	9.5	9.0	9.0	9.0
24.20	9.5	9.0	9.5	10.0	9.5	9.5	8.5	9.5	9.5	9.5	9.0	8.5
26.20	9.5	9.0	9.5	9.5	9.5	9.5	8.5	9.5	9.5	9.5	9.0	8.5
28.20	9.5	9.0	9.5	9.5	9.5	9.5	8.5	9.5	9.5	9.5	9.0	8.5
30.20	9.5	9.0	9.5	9.5	9.5	9.5	9.0	9.5	9.5	9.5	9.0	8.5
32.20	9.5	9.0	--	9.5	9.0	9.5	9.0	9.5	9.5	9.5	9.0	8.5
34.20	9.0	9.0	9.5	9.5	9.0	9.5	9.0	9.5	9.5	--	9.0	8.5
36.20	9.0	9.0	--	9.5	9.0	9.5	9.0	9.5	9.5	--	9.0	8.5
38.20	9.0	9.0	9.5	9.5	9.0	9.5	9.0	9.5	9.0	9.5	9.0	8.5
40.20	9.0	9.0	--	9.5	9.0	9.5	9.0	--	9.0	--	9.0	--
42.20	9.0	9.0	9.5	9.5	9.0	9.5	9.0	9.5	9.0	9.5	9.0	8.5
44.20	9.0	9.0	--	9.5	9.0	9.0	9.0	--	9.0	--	9.0	--
46.20	9.0	9.0	9.5	9.5	9.0	9.0	9.0	9.5	9.0	--	9.0	--
48.20	9.0	9.0	--	9.5	9.0	9.0	9.0	--	9.0	9.5	9.5	8.5
50.20	9.0	--	9.5	--	--	9.0	9.0	9.5	9.0	--	--	--
52.20	9.0	9.0	--	9.5	9.0	9.0	9.0	--	9.0	9.5	9.5	8.5
54.20	9.0	--	9.5	--	--	9.0	9.0	9.5	9.0	--	--	--
56.20	9.0	--	--	9.5	--	9.0	9.0	--	9.0	--	--	--
58.20	9.0	9.0	9.5	--	9.0	--	--	9.5	--	9.5	9.5	9.0
60.20	9.0	--	--	9.5	--	9.5	9.0	--	9.0	--	--	--
62.20	--	9.0	9.5	--	9.0			--	--	9.5	9.5	--
64.20	9.0	--	--	9.5	--	--	--	--	--	--	--	--
66.20	--	--	9.5	--	--	9.5	9.0	--	8.5	--	--	--
68.20	9.0	9.0	--	9.5	9.0	--	--	9.5	--	9.5	9.5	9.0
70.20	--	--	9.5	--	--	--	--	--	8.0	--	--	--
72.20	9.5	--	--	--	--	9.5	9.0	--	--	--	--	--
78.20	9.5	9.0	9.5	9.5	9.5	--	--	9.5	--	9.5	9.5	9.0
86.20	--	--	--	--	--	--	--	--	7.5	--	--	--
96.20	--	--	--	--	--	--	--	--	7.0	--	--	--
97.20	--	--	--	--	--	9.5	9.5	--	--	--	--	--
98.20	--	9.0	9.5	9.5	9.5	--	--	9.5	--	9.5	9.5	9.0
108.20	--	9.0	9.5	9.5	9.5	9.5	9.5	9.5	--	9.5	9.5	9.0
118.20	--	9.0	9.5	9.5	9.5	9.5	9.5	9.5	--	9.5	9.5	9.0
128.20	--	9.0	9.5	9.5	9.5	9.5	9.5	9.5	7.0	9.5	--	9.0
138.20	--	9.0	9.5	10.0	9.5	9.5	9.5	9.5	6.5	9.5	--	9.0
142.20	--	--	--	--	--	--	9.5	--	--	--	--	--
146.20	--	--	--	--	--	--	--	--	6.5	--	--	--
147.20	--	--	--	--	--	9.5	--	--	--	--	--	--
148.20	--	9.5	10.0	10.0	9.5	--	--	9.5	--	9.5	--	9.0
158.20	--	9.5	10.0	10.0	9.5	9.5	--	10.0	6.5	10.0	--	9.0
161.20	--	9.5	10.0	--	--	9.5	--	--	--	--	--	--

430932077311501. Local number Mo 659 (B86-2)--continued



GROUND-WATER LEVELS

Ellison park

430912077313301. Local number Mo 663

LOCATION.--Lat 43˚09’12", long 77˚31’33", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 1200 ft. south of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in fluvial sediments of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 10 ft, cased to 10 ft, screened 7.5 ft to 10 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 251.16 ft above sea level. Measuring point: arrow at top of casing, 3.60 ft above land-surface datum.

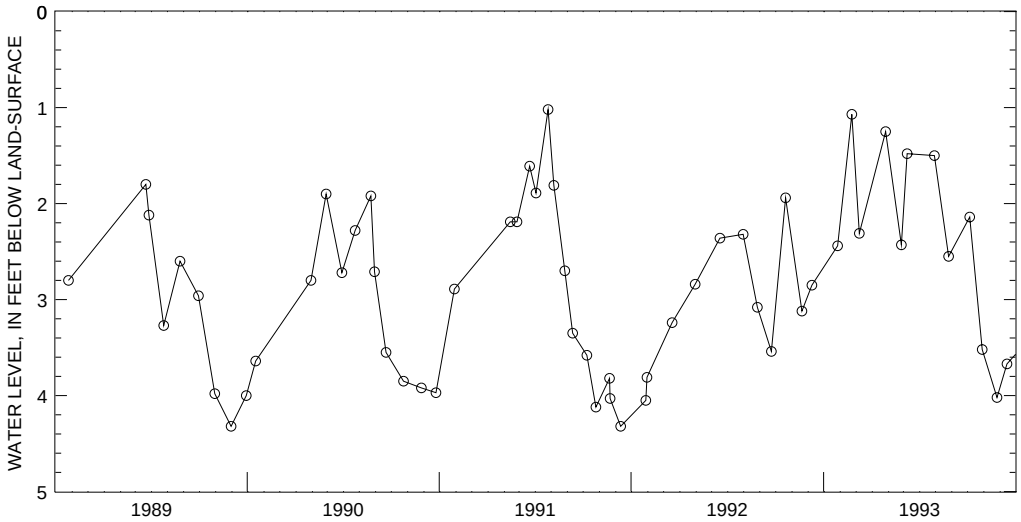
REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1988 TO SEPTEMBER 1993.--Highest water level measured, 1.02 ft below land-surface datum, April 26, 1991; lowest measured, 4.32 ft below land-surface datum, Aug. 31, 1989, Sept. 11, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD SEPTEMBER 1988 TO SEPTEMBER 1989											
SEP	07	3.46	MAR	28	2.12	JUN	30	2.96	SEP	29	4.00
OCT	26	2.80	APR	25	3.27	JUL	31	3.98			
MAR	22	1.80	MAY	26	2.60	AUG	31	4.32			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	17	3.64	MAR	30	2.72	MAY	31	2.71	AUG	28	3.92
JAN	30	2.80	APR	24	2.28	JUN	22	3.55	SEP	25	3.97
FEB	26	1.90	MAY	24	1.92	JUL	25	3.85			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	2.89	APR	3	1.89	JUN	12	3.35	AUG	22	4.03
FEB	13	2.19		26	1.02	JUL	9	3.58	SEP	11	4.32
	26	2.19	MAY	7	1.84		26	4.12			
MAR	22	1.61		28	2.70	AUG	21	3.82			
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	4.05	JAN	31	2.84	MAY	28	3.08	AUG	21	3.12
	31	3.81	MAR	18	2.36	JUN	24	3.54	SEP	9	2.85
DEC	18	3.24	MAY	1	2.32	JUL	21	1.94			
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	2.44	JAN	27	1.25	APR	30	1.50	JUL	30	3.52
NOV	24	1.07	FEB	26	2.43	MAY	27	2.55	AUG	27	4.02
DEC	8	2.31	MAR	9	1.48	JUL	6	2.14	SEP	15	3.67



430912077313301. Local number Mo 663 (B88-3s)--continued

PERIOD OF RECORD.-- April 1991 to current year.
CHEMICAL DATA: 1991-93(b).
ORGANIC DATA: OC.--1991-93(b).
NUTRIENT DATA: 1991-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD APRIL 1991 TO SEPTEMBER 1991

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
APR										
03	190	1600	1.5	6.8	184	0.63	2.0	0.01	0.480	0.003
JUN										
12	160	1560	--	6.9	--	.70	2.8	.10	.330	<.002
SEP										
11	60	1660	--	7.1	--	.96	--	<.05	.140	.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
APR									
03	860	220	54	58	0.46	230	<10	4000	933
JUN									
12	780	220	51	62	.48	220	<10	16000	964
SEP									
11	760	210	60	67	.81	250	<10	6100	969

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
18	290	1680	--	7.1	166	0.65	1.8	<0.05	0.170	0.002
MAR										
18	130	1320	0.1	6.9	180	.67	1.5	<.05	.210	.003
JUN										
24	150	1600	<.1	7.0	168	.80	2.1	<.05	.300	.002
SEP										
09	130	1610	--	6.9	143	1.0	1.8	<.05	.220	,.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
18	760	220	52	73	1.0	240	<10	12000	932
MAR									
18	780	220	56	53	1.2	210	<10	13000	950
JUN									
24	770	210	58	63	.80	220	<10	19000	919
SEP									
09	760	210	55	65	.78	210	<10	9600	979

430912077313301. Local number Mo 663 (B88-3s)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

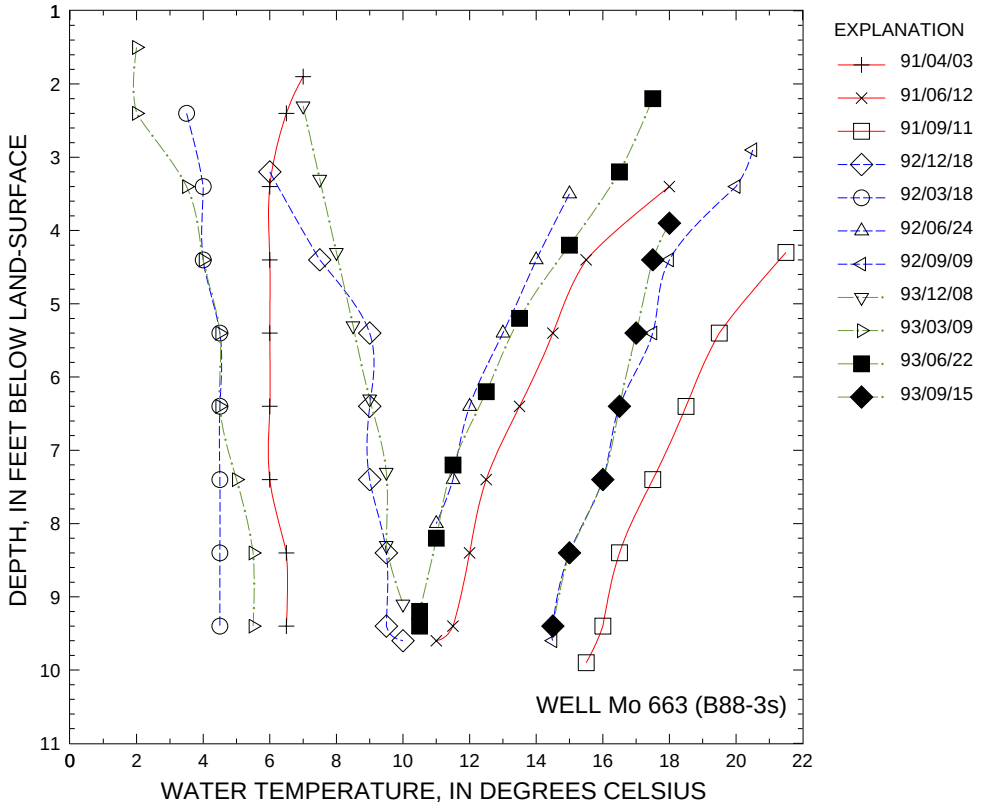
DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN,AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
08	120	1680	0.1	7.0	142	0.89	1.6	<0.05	0.240	0.002
MAR										
09	150	1590	<.1	7.0	165	.75	1.7	<.05	.270	.002
JUN										
22	100	1510	--	7.1	126	.80	1.9	<.05	.250	.004
SEP										
16	130	1630	<.1	7.0	149	.89	2.1	<.05	.320	.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
08	800	220	55	68	0.60	240	<5.0	13000	1000
MAR									
09	800	210	54	54	.32	210	6.0	16000	--
JUN									
22	780	220	48	68	<.50	220	<5.0	4200	1010
SEP									
16	750	210	52	74	<.50	260	5.0	14000	1000

430912077313301 local number Mo 663 (B88-3s)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1991 WY			1992 WY				1993 WY			
	Apr 3	Jun 12	Sep 11	Dec 18	Mar 18	Jun 24	Sep 9	Dec 8	Mar 9	Jun 22	Sep 15
1.90	7.0	--	--	--	--	--	--	--	2.0	--	--
2.40	6.5	--	--	--	3.5	--	--	7.0	2.0	17.5	--
2.90	--	--	--	--	--	--	20.5	--	--	--	--
3.40	6.0	18.0	--	6.0	4.0	15.0	20.0	7.5	3.5	16.5	--
3.90	--	--	--	--	--	--	--	--	--	--	18.0
4.40	6.0	15.5	21.5	7.5	4.0	14.0	18.0	8.0	4.0	15.0	17.5
5.40	6.0	14.5	19.5	9.0	4.5	13.0	17.5	8.5	4.5	13.5	17.0
6.40	6.0	13.5	18.5	9.0	4.5	12.0	16.5	9.0	4.5	12.5	16.5
7.40	6.0	12.5	17.5	9.0	4.5	11.5	16.0	9.5	5.0	11.5	16.0
8.00	--	--	--	--	--	11.0	--	--	--	--	--
8.40	6.5	12.0	16.5	9.5	4.5	--	15.0	9.5	5.5	11.0	15.0
9.20	--	--	--	--	--	--	--	10.0	--	10.5	--
9.40	6.5	11.5	16.0	9.5	4.5	--	14.5	--	5.5	10.5	14.5
9.60	--	11.0	--	10.0	--	--	14.5	--	--	--	--
9.90	--	--	15.5	--	--	--	--	--	--	--	--



GROUND-WATER LEVELS

Ellison park

430912077313302. Local number Mo 664

LOCATION.--Lat 43˚09’12", long 77˚31’33", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 1200 ft south of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in fluvial sediments of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 27 ft, cased to 27 ft, screened 22 ft to 27 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 251.18 ft above sea level. Measuring point: arrow at top of casing, 3.20 ft above land-surface datum.

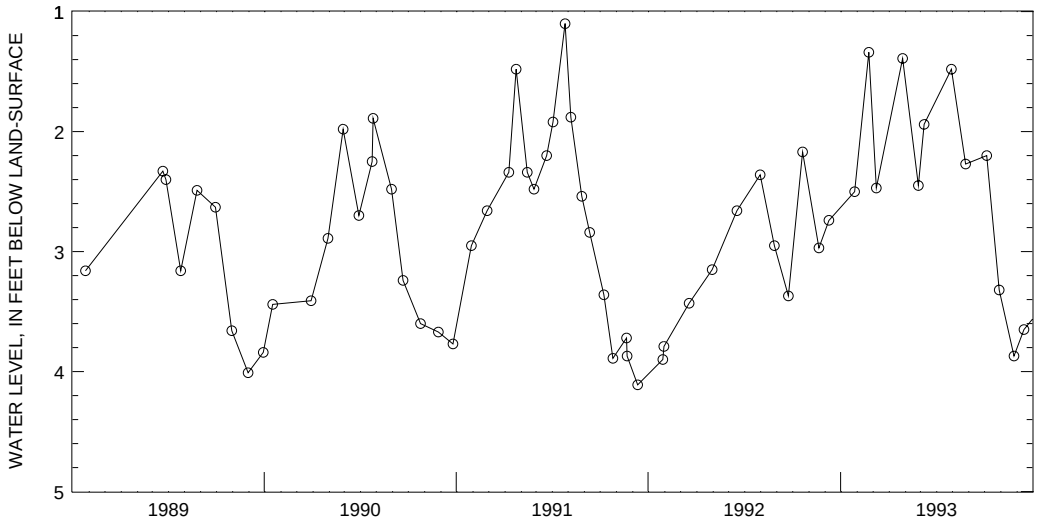
REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1988 TO SEPTEMBER 1993.--Highest water level measured, 1.10 ft below land-surface datum, April 26, 1991; lowest measured, 4.01 ft below land-surface datum, Aug. 31, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD SEPTEMBER 1988 TO SEPTEMBER 1989											
SEP	07	3.53	MAR	28	2.40	JUN	30	2.63	SEP	29	3.84
OCT	26	3.16	APR	25	3.16	JUL	31	3.66			
MAR	22	2.33	MAY	26	2.49	AUG	31	4.01			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	17	3.64	FEB	28	1.98	MAY	26	1.89	JUL	25	3.60
DEC	29	3.41	MAR	30	2.70	MAY	31	2.48	AUG	28	3.67
JAN	30	2.89	APR	24	2.25	JUN	22	3.24	SEP	25	3.77
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	2.95	FEB	26	2.48	MAY	28	2.54	AUG	22	3.87
NOV	29	2.66	MAR	22	2.20	JUN	12	2.84	SEP	11	4.11
JAN	9	2.34	APR	3	1.92	JUL	9	3.36			
	23	1.48		26	1.10		26	3.89			
FEB	13	2.34	MAY	7	1.88	AUG	21	3.72			
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	3.90	JAN	31	3.15	MAY	28	2.95	AUG	21	2.97
	31	3.79	MAR	18	2.66	JUN	24	3.37	SEP	9	2.74
DEC	18	3.43	MAY	1	2.36	JUL	21	2.17			
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	2.50	JAN	27	1.39	APR	30	1.48	JUL	30	3.32
NOV	24	1.34	FEB	26	2.45	MAY	27	2.27	AUG	27	3.87
DEC	8	2.47	MAR	9	1.94	JUL	6	2.20	SEP	15	3.65



430912077313302. Local number Mo 664 (B88-3d)--continued

PERIOD OF RECORD.-- January 1991 to current year.
CHEMICAL DATA: 1991-93(b).
ORGANIC DATA: OC.--1991-93(b).
NUTRIENT DATA: 1991-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD JANUARY 1991 TO SEPTEMBER 1991

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
JAN 09	110	18100	<0.1	6.5	113	2.8	3.1	0.02	0.170	0.003
APR 03	160	19700	<.1	6.8	103	2.9	3.6	--	.330	.003
JUN 12	160	17800	.6	6.6	120	4.1	15	.10	.29	<.002
SEP 11	180	21400	.6	6.7	111	2.5	--	.06	2.75	.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN 09	5100	1300	450	2300	30	6700	480	33000	11100
APR 03	5900	1500	470	2400	30	7500	380	36000	12600
JUN 12	6900	1800	610	2600	36	8500	150	56000	14400
SEP 11	6200	--	--	3000	24	8100	510	25000	13800

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC 18	340	19300	0.1	6.6	102	3.2	6.7	<0.05	0.300	0.004
MAR 18	80	16900	<.1	6.8	110	2.5	5.3	<.05	.290	.003
JUN 24	120	20600	<.1	6.8	98	3.1	9.7	.56	.250	.010
SEP 09	55	21200	<.1	6.7	98	3.5	5.0	<.05	--	<.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (g/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC 18	5600	1400	480	3000	31	7100	550	32000	12800
MAR 18	4800	550	450	2000	37	6400	310	18000	11000
JUN 24	5800	1400	510	2700	32	7400	560	37000	14000
SEP 09	6000	1400	520	2700	34	7800	590	30000	13300

430912077313302. Local number Mo 664 (B88-3d)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
08	36	21200	<0.1	6.8	92	2.9	5.1	<0.05	0.260	0.003
MAR										
09	60	21600	<.1	6.9	107	3.3	4.8	<.05	.270	.002
JUN										
22	35	22000	.1	6.8	127	3.2	4.0	<.05	.300	.036
SEP										
16	70	23100	<.1	6.6	106	3.6	6.4	<.05	.275	.004

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
08	5900	1400	520	2500	26	7700	660	29000	13900
MAR									
09	6200	1500	490	2600	29	7800	630	34000	--
JUN									
22	6100	650	280	170	17	8100	660	340	14900
SEP									
16	6600	1700	550	3000	24	8700	--	40000	16200

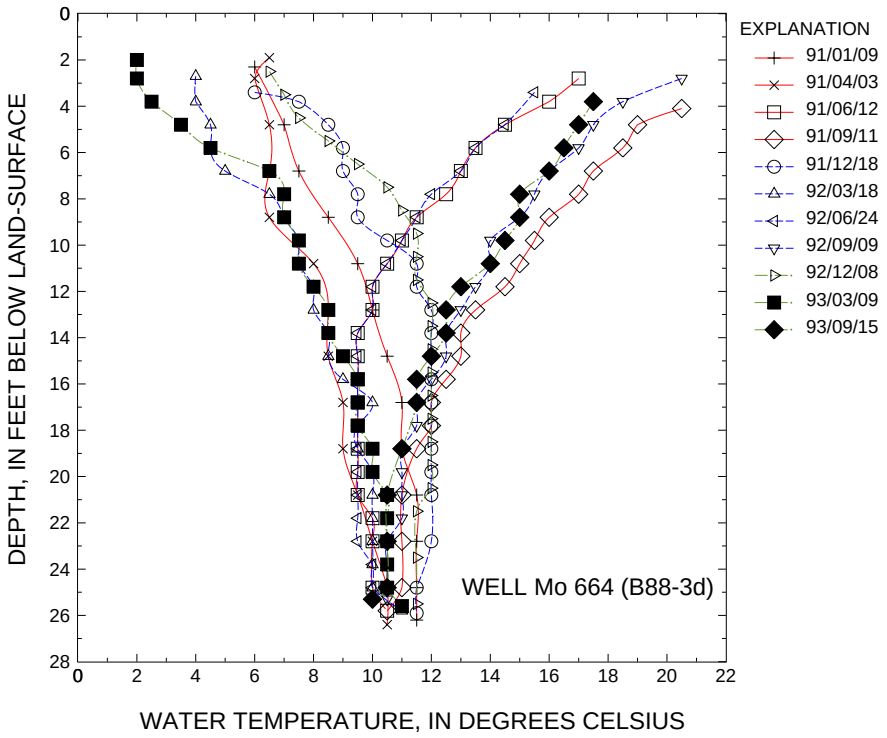
GROUND-WATER TEMPERATURE PROFILES

Ellison park

430912077313302 local number Mo 664 (B88-3d)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1991 WY				1992 WY				1993 WY		
	Jan 9	Apr 3	Jun 12	Sep 11	Dec 18	Mar 18	Jun 24	Sep 9	Dec 8	Mar 9	Sep 15
2.00	--	6.5	--	--	--	--	--	--	--	2.0	--
2.80	6.0	6.0	17.0	--	--	4.0	--	20.5	6.5	2.0	--
3.40	--	--	--	--	6.0	--	15.5	--	--	--	--
3.80	--	--	16.0	20.5	7.5	4.0	--	18.5	7.0	2.5	17.5
4.80	7.0	6.5	14.5	19.0	8.5	4.5	14.5	17.5	7.5	3.5	17.0
5.80	--	--	13.5	18.5	9.0	4.5	13.5	17.0	8.5	4.5	16.5
6.80	7.5	6.5	13.0	17.5	9.0	5.0	13.0	16.0	9.5	6.5	16.0
7.80	--	--	12.5	17.0	9.5	6.5	12.0	15.5	10.5	7.0	15.0
8.80	8.5	6.5	11.5	16.0	9.5	7.0	11.5	15.0	11.0	7.0	15.0
9.80	--	--	11.0	15.5	10.5	7.5	11.0	14.0	11.5	7.5	14.5
10.80	9.5	8.0	10.5	15.0	11.5	7.5	10.5	14.0	11.5	7.5	14.0
11.80	--	--	10.0	14.5	11.5	8.0	10.0	13.5	11.5	8.0	13.0
12.80	10.0	8.5	10.0	13.5	12.0	8.0	10.0	13.0	12.0	8.5	12.5
13.80	--	--	9.5	13.0	12.0	8.5	9.5	12.5	12.0	8.5	12.5
14.80	10.5	8.5	9.5	13.0	12.0	8.5	9.5	12.5	12.0	9.0	12.0
15.80	--	--	9.5	12.5	12.0	9.0	9.5	12.0	12.0	9.5	11.5
16.80	11.0	9.0	9.5	12.0	12.0	10.0	9.5	11.5	12.0	9.5	11.5
17.80	--	--	9.5	12.0	12.0	9.5	9.5	11.5	12.0	9.5	--
18.80	11.0	9.0	9.5	11.5	12.0	9.5	9.5	11.0	12.0	10.0	11.0
19.80	--	--	9.5	--	12.0	10.0	9.5	11.0	12.0	10.0	--
20.80	11.5	9.5	9.5	11.0	12.0	10.0	9.5	11.0	12.0	10.5	10.5
21.80	--	--	10.0	--	--	10.0	9.5	11.0	11.5	10.5	--
22.80	11.5	10.0	10.0	11.0	12.0	10.0	9.5	10.5	--	10.5	10.5
23.80	--	--	--	--	--	10.0	10.0	10.5	11.5	10.5	--
24.80	11.5	10.5	10.0	11.0	11.5	10.0	10.0	10.5	--	10.5	10.5
25.30	--	--	--	--	--	--	--	10.5	--	--	10.0
25.80	11.5	10.5	10.5	10.5	11.5	11.0	--	--	11.5	11.0	--



GROUND-WATER LEVELS

Ellison park

430928077313802. Local number Mo 665

LOCATION.--Lat 43˚09’28", long 77˚31’38", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 100 ft north of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in fluvial sediments of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 17 ft, cased to 17 ft, screEned 12 ft to 17 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 254.14 ft sea level. Measuring point: arrow at top of casing, 2.45 ft above land-surface datum.

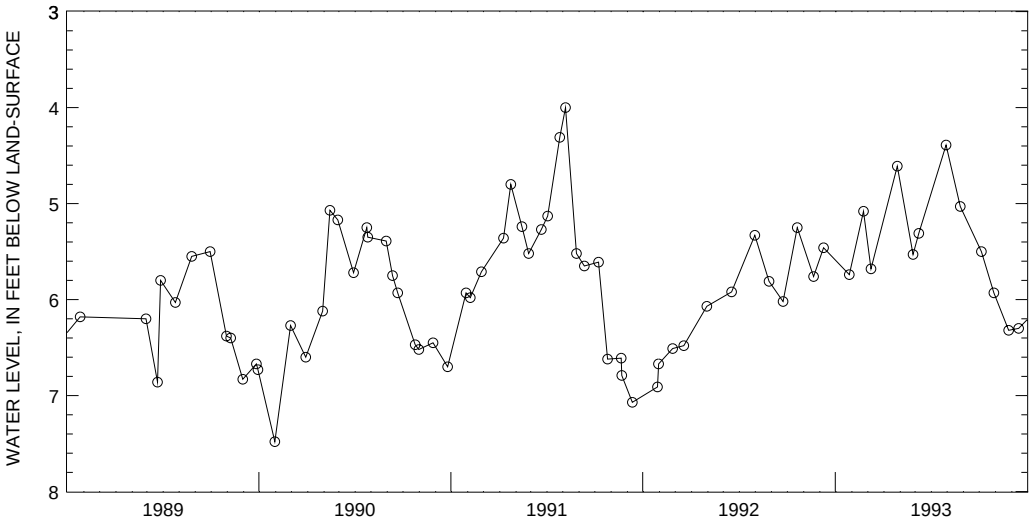
REMARKS.--Well also sampled for water-quality.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1988 TO SEPTEMBER 1993.--Highest water level measured, 4.00 ft below land-surface datum, May 7, 1991; lowest measured, 7.48 ft below land-surface datum, Oct. 31, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD SEPTEMBER 1988 TO SEPTEMBER 1989											
SEP	07	6.40	MAR	22	6.86	JUN	30	5.50	SEP	26	6.67
	12	6.47		28	5.80	JUL	31	6.38		29	6.73
OCT	26	6.18	APR	25	6.03	AUG	8	6.40			
FEB	28	6.20	MAY	26	5.55		31	6.83			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	31	7.48	FEB	13	5.07	APR	26	5.35	JUL	25	6.47
NOV	30	6.27		28	5.17	MAY	31	6.39	AUG	1	6.52
DEC	29	6.60	MAR	30	5.72	JUN	12	5.75		28	6.45
JUN	30	6.12	APR	24	5.25		22	5.93	SEP	25	6.70
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	5.93	FEB	13	5.24	MAY	7	4.00	AUG	21	6.61
NOV	7	5.98		26	5.52		28	5.52		22	6.79
	28	5.71	MAR	22	5.27	JUN	12	5.65	SEP	11	7.07
JAN	9	5.36	APR	3	5.13	JUL	9	5.61			
	23	4.80		26	4.31		26	6.62			
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	6.91	DEC	18	6.48	MAY	1	5.33	JUL	21	5.25
	31	6.67	JAN	31	6.07		28	5.81	AUG	21	5.76
NOV	27	6.51	MAR	18	5.92	JUN	24	6.02	SEP	9	5.46
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	5.74	JAN	27	4.61	APR	30	4.39	JUL	30	5.93
NOV	24	5.08	FEB	26	5.53	MAY	27	5.03	AUG	27	6.32
DEC	8	5.68	MAR	9	5.31	JUL	6	5.50	SEP	15	6.30



430928077313802. Local number Mo 665 (B88-1s)--continued

PERIOD OF RECORD.-- January 1991 to current year.
CHEMICAL DATA: 1991-93(b).
ORGANIC DATA: OC.--1991-93(b).
NUTRIENT DATA: 1991-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD JANUARY 1991 TO SEPTEMBER 1991

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
JAN										
09	100	1900	--	7.0	--	1.9	3.5	0.03	0.330	0.004
APR										
04	70	1940	<.1	7.1	117	1.8	1.7	--	.240	.003
JUN										
13	50	900	<.1	7.1	142	1.7	3.6	.14	.160	.004
SEP										
11	80	1970	.1	7.3	111	2.0	--	<.05	.260	.004

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN									
09	580	180	35	230	0.80	240	<10	12000	1210
APR									
04	580	170	34	240	.76	230	<10	27000	1220
JUN									
13	590	170	33	260	.70	240	<10	6900	1240
SEP									
11	570	160	7.0	260	.88	240	<10	13000	1240

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
19	75	1970	--	7.1	118	1.9	3.4	<0.05	0.300	0.004
MAR										
18	60	1910	--	7.1	122	1.9	3.4	<.05	.25	.004
JUN										
24	75	1990	<01	7.2	139	1.9	4.5	<.05	.280	.002
SEP										
10	75	1980	.1	7.2	126	2.0	3.1	<.05	.280	.003

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
19	580	170	34	270	1.0	240	<10	9700	1220
MAR									
18	590	180	37	230	1.2	240	<10	9900	1240
JUN									
24	560	170	39	250	.70	240	<10	7600	1230
SEP									
10	590	180	38	250	.99	240	<10	7300	1260

430928077313802. Local number Mo 665 (B88-1s)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (mS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN,AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
09	65	1970	0.1	7.1	133	2.1	3.4	<0.05	0.37	0.006
MAR										
10	75	1970	.4	7.1	126	2.0	4.2	<.05	.290	.003
JUL										
07	75	1930	<.1	7.2	111	2.0	3.5	<.05	.275	.004
SEP										
16	55	1970	<.1	7.1	121	1.9	3.9	<.05	.320	.006

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (mg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
09	600	170	34	240	0.60	240	6.0	12000	1240
MAR									
10	610	170	35	220	.48	240	7.0	12000	--
JUL									
07	650	180	36	270	<.50	230	5.0	8400	1260
SEP									
16	600	270	33	250	<.50	240	8.0	11000	1230

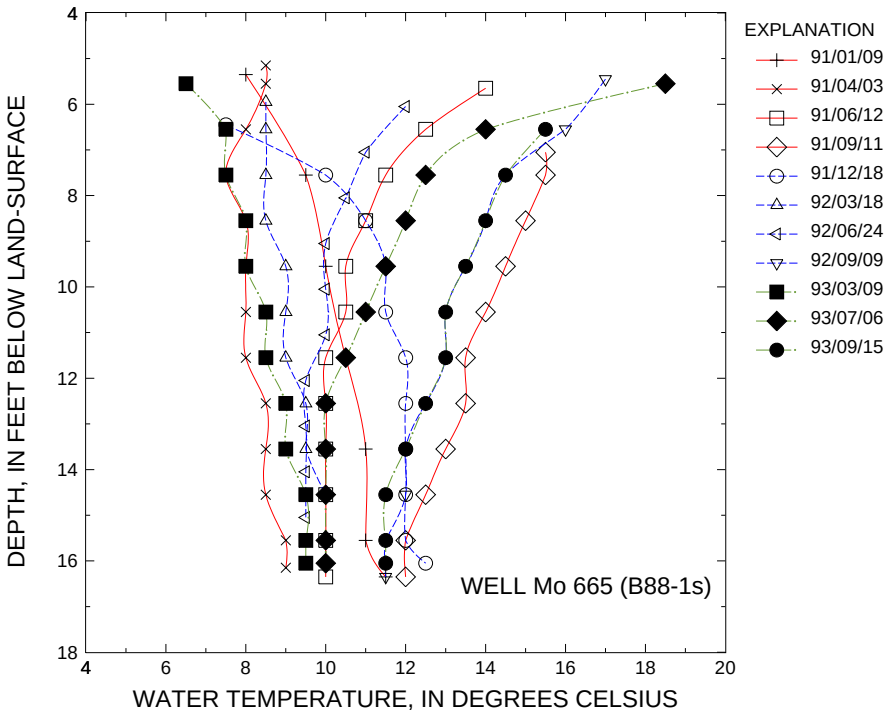
GROUND-WATER TEMPERATURE PROFILES

Ellison park

430928077313802. Local number Mo 665 (B88-1s)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1991 WY				1992 WY				1993 WY		
	Jan 9	Apr 3	Jun 12	Sep 11	Dec 18	Mar 18	Jun 24	Sep 9	Mar 9	Jul 6	Sep 15
5.15	8.0	8.5	--	--	--	--	--	--	--	--	--
5.55	--	8.5	14.0	--	--	--	--	17.0	6.5	18.5	--
5.95	--	--	--	--	--	8.5	--	--	--	--	--
6.05	--	--	--	--	--	--	12.0	--	--	--	--
6.45	--	--	--	--	7.5	--	--	--	--	--	--
6.55	--	8.0	12.5	--	--	8.5	--	16.0	7.5	14.0	15.5
7.05	--	--	--	15.5	--	--	11.0	--	--	--	--
7.55	9.5	7.5	11.5	15.5	10.0	8.5	--	14.5	7.5	12.5	14.5
8.05	--	--	--	--	--	--	10.5	--	--	--	--
8.55	--	8.0	11.0	15.0	11.0	8.5	--	14.0	8.0	12.0	14.0
9.05	--	--	--	--	--	--	10.0	--	--	--	--
9.55	10.0	8.0	10.5	14.5	11.5	9.0	--	13.5	8.0	11.5	13.5
10.05	--	--	--	--	--	--	10.0	--	--	--	--
10.55	--	8.0	10.5	14.0	11.5	9.0	--	13.0	8.5	11.0	13.0
11.05	--	--	--	--	--	--	10.0	--	--	--	--
11.55	10.5	8.0	10.0	13.5	12.0	9.0	--	13.0	8.5	10.5	13.0
12.05	--	--	--	--	--	--	9.5	--	--	--	--
12.55	--	8.5	10.0	13.5	12.0	9.5	--	12.5	9.0	10.0	12.5
13.05	--	--	--	--	--	--	9.5	--	--	--	--
13.55	11.0	8.5	10.0	13.0	12.0	9.5	--	12.0	9.0	10.0	12.0
14.05	--	--	--	--	--	--	9.5	--	--	--	--
14.55	--	8.5	10.0	12.5	12.0	10.0	--	12.0	9.5	10.0	11.5
15.05	--	--	--	--	--	--	9.5	--	--	--	--
15.55	11.0	9.0	10.0	12.0	12.0	--	--	11.5	9.5	10.0	11.5
16.05	--	9.0	--	--	12.5	--	--	--	9.5	10.0	11.5
16.35	11.5	--	10.0	12.0	--	--	--	11.5	--	--	--



GROUND-WATER LEVELS

Ellison park

430928077314001. Local number Mo 667

LOCATION.--Lat 43˚09’28", long 77˚31’40", Hydrologic Unit 04140101, on west bank of Irondequoit Creek about 500 ft. north of Browncroft Boulevard and 100 ft west of Irondequoit Creek. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in fluvial sediments of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 15 ft, cased to 15 ft, screened 10 ft to 15 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 255.38 ft above sea level. Measuring point: arrow at top of casing, 2.05 ft above land-surface datum.

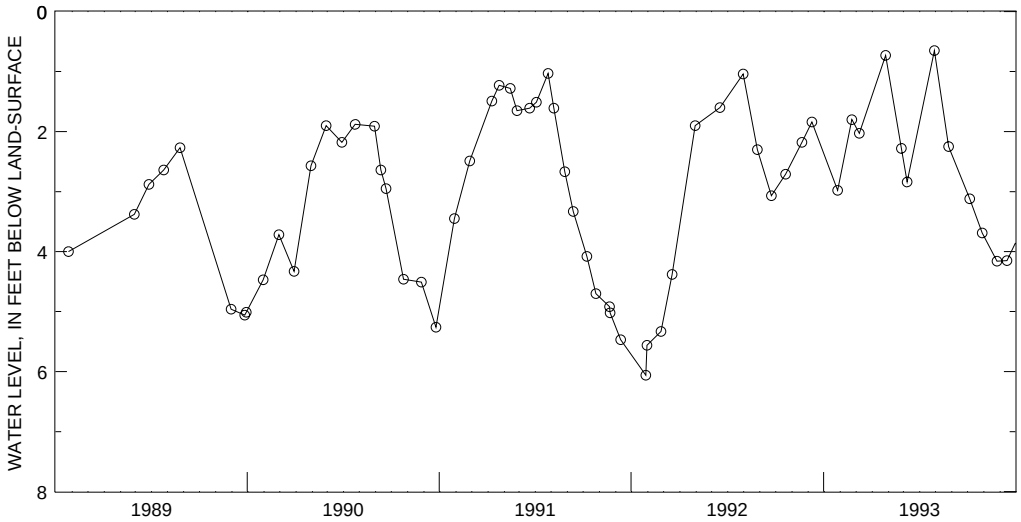
REMARKS.--Well also sampled for water-quality.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1988 TO SEPTEMBER 1993.--Highest water level measured, 0.65 ft below land-surface datum, Apr 30, 1993; lowest measured, 6.06 ft below land-surface datum, Oct. 29, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD SEPTEMBER 1988 TO SEPTEMBER 1989											
SEP	7	4.05	MAR	28	2.88	MAY	26	2.27	SEP	26	5.06
OCT	26	4.00	APR	25	2.64	AUG	31	4.96		29	5.01
FEB	28	3.38									
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	31	4.47	FEB	28	1.90	JUN	12	2.64	SEP	25	5.26
NOV	30	3.72	MAR	30	2.18		22	2.95			
DEC	29	4.33	APR	24	1.88	JUL	25	4.46			
JAN	30	2.57	MAY	31	1.91	AUG	28	4.51			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	3.45	FEB	26	1.65	MAY	28	2.67	AUG	22	5.02
NOV	28	2.49	MAR	22	1.61	JUN	13	3.33	SEP	11	5.47
JAN	9	1.49	APR	4	1.51	JUL	9	4.08			
	23	1.23		26	1.03		26	4.70			
FEB	13	1.28	MAY	7	1.61	AUG	21	4.92			
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	6.06	DEC	18	4.38	MAY	1	1.04	JUL	21	2.71
	31	5.56	JAN	31	1.90		28	2.30	AUG	21	2.18
NOV	27	5.33	MAR	18	1.60	JUN	24	3.07	SEP	9	1.84
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	2.98	JAN	27	0.73	APR	30	0.65	JUL	30	3.69
NOV	24	1.80	FEB	26	2.28	MAY	27	2.25	AUG	27	4.16
DEC	8	2.03	MAR	9	2.84	JUL	6	3.12	SEP	15	4.15



GROUND-WATER QUALITY

Ellison park

430928077314001. Local number Mo 667 (B88-2s)--continued

PERIOD OF RECORD.-- January 1991 to current year.
CHEMICAL DATA: 1991-93(b).
ORGANIC DATA: OC.--1991-93(b).
NUTRIENT DATA: 1991-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD JANUARY 1991 TO SEPTEMBER 1991

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
JAN										
09	160	2080	--	7.1	213	12	13	0.03	0.710	0.003
APR										
04	220	1720	--	7.3	--	9.8	12	--	1.65	.004
JUN										
13	100	1370	--	7.3	--	14	13	.10	3.9	.003
SEP										
11	170	2480	--	7.3	--	22	--	.06	.990	.004

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN									
09	750	200	53	170	23	220	10	18000	1250
APR									
04	690	200	52	100	21	130	<10	25000	1000
JUN									
13	880	250	62	170	25	250	<10	13000	1390
SEP									
11	910	240	71	230	22	280	<10	18000	1170

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
18	--	2530	--	7.1	239	16	16	<0.05	1.60	0.004
MAR										
18	220	1880	0.7	7.4	194	12	12	<.05	1.60	.003
JUN										
24	100	2440	1.4	7.3	215	12	16	<.05	1.50	.009
SEP										
10	220	2370	--	7.8	157	14	14	<.05	1.85	.004

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
18	990	290	73	210	31	310	10	53000	1500
MAR									
18	820	220	60	100	23	120	84	19000	1160
JUN									
24	990	270	74	190	26	270	<10	14000	1490
SEP									
10	930	280	37	180	29	240	<10	20000	1460

430928077314001. Local number Mo 667 (B88-2s)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN,AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
09	270	2330	0.2	7.0	171	14	14	<0.05	2.80	0.004
MAR										
10	300	2160	<.1	7.1	189	12	12	<.05	3.60	.004
JUL										
07	250	2850	<.1	7.1	197	15	17	<.05	1.75	.006
SEP										
16	510	2970	<.1	7.2	148	18	18	<.05	11.0	.007

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
09	910	250	65	170	23	250	<5.0	39000	1400
MAR									
10	910	240	61	130	22	230	7.0	44000	--
JUL									
07	1100	290	71	230	28	530	<5.0	28000	1730
SEP									
16	950	260	62	280	25	550	7.0	55000	1710

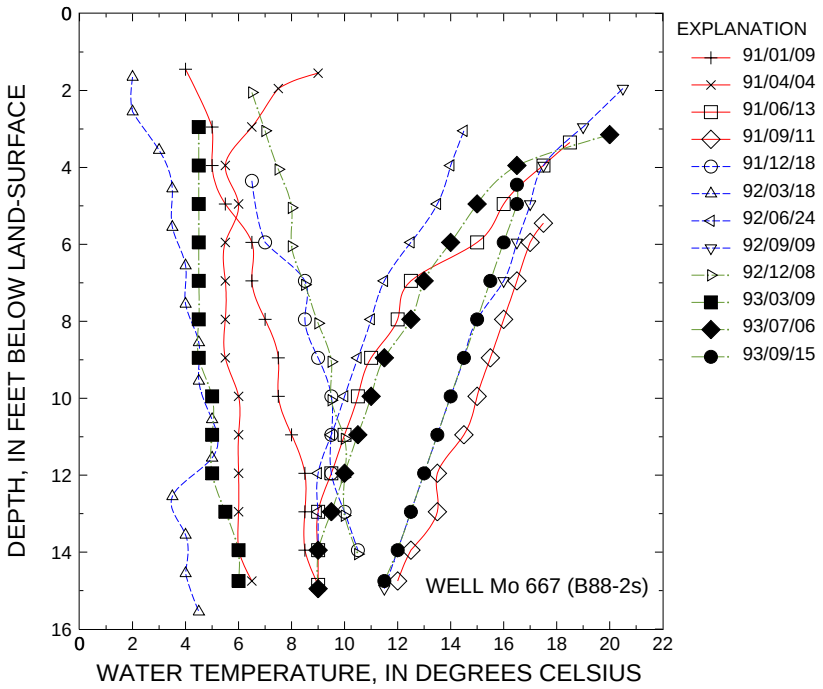
GROUND-WATER TEMPERATURE PROFILES

Ellison park

430928077314001. Local number Mo 667 (B88-2s)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

depth, in feet	1991 WY				1992 WY				1993 WY			
	Jan 9	Apr 4	Jun 13	Sep 11	Dec 18	Mar 18	Jun 24	Sep 9	Dec 8	Mar 9	Jul 6	Sep 15
1.55	4.0	9.0	--	--	--	2.0	--	--	--	--	--	--
1.95	--	7.5	--	--	--	--	--	20.5	6.5	--	--	--
2.55	--	--	--	--	--	2.0	--	--	--	--	--	--
2.95	5.0	6.5	--	--	--	--	14.5	19.0	7.0	4.5	--	--
3.15	--	--	--	--	--	--	--	--	--	--	20.0	--
3.35	--	--	18.5	--	--	--	--	--	--	--	--	--
3.55	--	--	--	--	--	3.0	14.0	--	--	--	--	--
3.95	5.0	5.5	17.5	--	--	--	--	17.5	7.5	4.5	16.5	--
4.55	--	--	--	--	6.5	3.5	13.5	--	--	--	--	16.5
4.95	5.5	6.0	16.0	--	--	--	--	17.0	8.0	4.5	15.0	16.5
5.45	--	--	--	17.5	--	--	--	--	--	--	--	--
5.55	--	--	--	--	--	3.5	12.5	--	--	--	--	--
5.95	6.5	5.5	15.0	17.0	7.0	--	--	16.5	8.0	4.5	14.0	16.0
6.55	--	--	--	--	--	4.0	11.5	--	--	--	--	--
6.95	6.5	5.5	12.5	16.5	8.5	--	--	16.0	8.5	4.5	13.0	15.5
7.55	--	--	--	--	--	4.0	11.0	--	--	--	--	--
7.95	7.0	5.5	12.0	16.0	8.5	--	--	15.0	9.0	4.5	12.5	15.0
8.55	--	--	--	--	--	4.5	10.5	--	--	--	--	--
8.95	7.5	5.5	11.0	15.5	9.0	--	--	14.5	9.5	4.5	11.5	14.5
9.55	--	--	--	--	--	4.5	10.0	--	--	--	--	--
9.95	7.5	6.0	10.5	15.0	9.5	--	--	14.0	9.5	5.0	11.0	14.0
10.55	--	--	--	--	--	5.0	9.5	--	--	--	--	--
10.95	8.0	6.0	10.0	14.5	9.5	--	--	13.5	10.0	5.0	10.5	13.5
11.55	--	--	--	--	--	5.0	9.0	--	--	--	--	--
11.95	8.5	6.0	9.5	13.5	9.5	--	--	13.0	10.0	5.0	10.0	13.0
12.55	--	--	--	--	--	3.5	9.0	--	--	--	--	--
12.95	8.5	6.0	9.0	13.5	10.0	--	--	12.5	10.0	5.5	9.5	12.5
13.55	--	--	--	--	--	4.0	9.0	--	--	--	--	--
13.95	8.5	6.0	9.0	12.5	10.5	--	--	12.0	10.5	6.0	9.0	12.0
14.55	--	--	--	--	--	4.0	--	--		--	--	--
14.85	9.0	6.5	9.0	12.0	--	--	--	11.5	--	6.0	9.0	11.5
15.55	--	--	--	--	--	4.5	--	--	--	--	--	--



GROUND-WATER LEVELS

Ellison park

430928077314002. Local number Mo 668

LOCATION.--Lat 43˚09’28", long 77˚31’40", Hydrologic Unit 04140101, on west bank of Irondequoit Creek about 500 ft north of Browncroft Boulevard and 100 ft west of Irondequoit Creek. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in fluvial sediments of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 36 ft, cased to 36 ft, screened 31 ft to 36 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 255.32 ft above sea level. Measuring point: arrow at top of casing, 1.40 ft above land-surface datum.

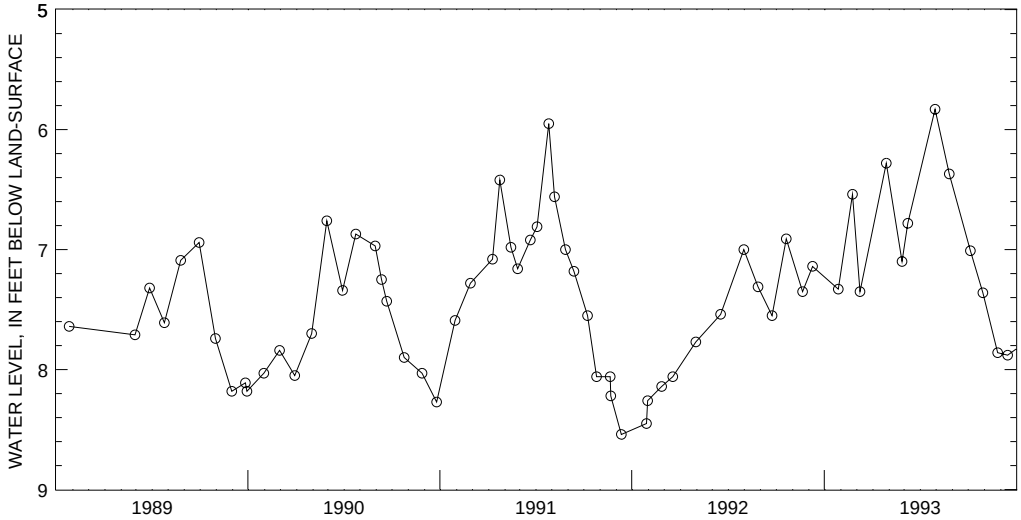
REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD SEPTEMBER 1988 TO SEPTEMBER 1993.--Highest water level measured, 5.83 ft below land-surface datum, Apr. 30, 1993; lowest measured, 8.54 ft below land-surface datum, Sept. 11, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM,

DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL	DATE		WATER LEVEL
PERIOD SEPTEMBER 1988 TO SEPTEMBER 1989											
SEP	7	7.90	MAR	28	7.32	JUN	30	6.94	SEP	26	8.11
OCT	26	7.64	APR	25	7.61	JUL	31	7.74		29	8.18
FEB	28	7.71	MAY	26	7.09	AUG	31	8.18			
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990											
OCT	31	8.03	FEB	28	6.76	JUN	12	7.25	SEP	25	8.27
NOV	30	7.84	MAR	30	7.34		22	7.43			
DEC	29	8.05	APR	24	6.87	JUL	25	7.90			
JAN	30	7.70	MAY	31	6.97	AUG	28	8.03			
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991											
OCT	30	7.59	FEB	26	7.16	MAY	28	7.00	AUG	22	8.22
NOV	28	7.28	MAR	22	6.92	JUN	13	7.18	SEP	11	8.54
JAN	9	7.08	APR	4	6.81	JUL	9	7.55			
	23	6.42		26	5.95		26	8.06			
FEB	13	6.98	MAY	7	6.56	AUG	21	8.06			
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992											
OCT	29	8.45	DEC	18	8.06	MAY	1	7.00	JUL	21	6.91
	31	8.26	JAN	31	7.77		28	7.31	AUG	21	7.35
NOV	27	8.14	MAR	18	7.54	JUN	24	7.55	SEP	9	7.14
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
OCT	28	7.33	JAN	27	6.28	APR	30	5.83	JUL	30	7.36
NOV	24	6.54	FEB	26	7.10	MAY	27	6.37	AUG	27	7.86
DEC	8	7.35	MAR	9	6.78	JUL	6	7.01	SEP	15	7.88



430928077314002. Local number Mo 668 (B88-2d)--continued

PERIOD OF RECORD.-- January 1991 to current year.
CHEMICAL DATA: 1991-93(b).
ORGANIC DATA: OC.--1991-93(b).
NUTRIENT DATA: 1991-93(b).

COOPERATION-- Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER QUALITY DATA, PERIOD JANUARY 1991 TO SEPTEMBER 1991

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN,AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
JAN										
09	160	2880	--	6.8	214	5.9	7.0	0.02	0.160	0.003
APR										
04	200	2860	<0.1	6.9	200	5.9	6.8	.14	.460	.003
JUN										
13	190	2650	<.2	6.9	198	4.9	7.3	1.2	.250	.002
SEP										
11	240	2780	--	7.0	168	8.4	--	<.05	.320	.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
JAN									
09	860	220	72	280	6.7	620	<10	27000	1610
APR									
04	920	210	73	280	6.0	700	<10	31000	1560
JUN									
13	840	220	70	310	6.2	670	<10	23000	1610
SEP									
11	860	220	27	290	5.0	690	<10	24000	1540

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN,AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
18	280	2800	--	7.0	206	7.1	7.4	<0.05	0.260	0.003
MAR										
18	220	2860	<.1	6.9	216	6.0	6.8	<.05	.480	.003
JUN										
24	150	2800	<.1	7.0	205	6.4	9.4	<.05	.660	.003
SEP										
10	160	2830	<.1	6.9	177	6.0	7.8	<.05	.580	.002

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
18	860	220	69	390	6.1	580	<10	33000	1560
MAR									
18	820	220	74	290	7.8	620	<10	18000	1560
JUN									
24	840	220	74	310	5.7	590	<10	40000	1550
SEP									
10	830	230	70	270	8.1	600	<10	23000	1570

430928077314002. Local number Mo 668 (B88-2d)--continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TURBIDITY (NTU)	SPECIFIC CONDUCTANCE (µS/cm)	OXYGEN, DISSOLVED (mg/L)	PH (STANDARD UNITS)	CARBON DIOXIDE DISSOLVED (mg/L as CO_2)	NITROGEN-AMMONIA DISSOLVED (mg/L as N)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N)	NITROGEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOSPHORUS TOTAL (mg/L as P)	PHOSPHORUS ORTHO, DISSOLVED (mg/L as P)
DEC										
09	75	2800	<0.1	6.9	186	6.0	7.1	<0.05	0.640	0.003
MAR										
10	230	2820	.3	7.0	154	5.4	6.4	<.05	.620	.003
JUL										
07	230	2600	<.1	7.0	164	6.3	7.0	<.05	.630	.004
SEP										
16	170	2580	<.1	6.9	145	6.7	7.6	<.05	.190	.004

DATE	HARDNESS TOTAL (mg/L as $CaCO_3$)	CALCIUM TOTAL RECOVERABLE (mg/L as Ca)	MAGNESIUM, DISSOLVED (mg/L as Mg)	SODIUM, DISSOLVED (mg/L as NA)	POTASSIUM, DISSOLVED (mg/L as K)	CHLORIDE, DISSOLVED (mg/L as Cl)	SULFATE DISSOLVED (mg/L as SO_4)	IRON TOTAL RECOVERABLE (µg/L as Fe)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (mg/L)
DEC									
09	860	220	73	270	5.0	610	<5.0	31000	1560
MAR									
10	860	210	72	260	4.9	600	6.0	34000	--
JUL									
07	830	210	69	280	4.9	570	<5.0	26000	1530
SEP									
16	770	210	64	250	4.5	540	6.0	30000	1420

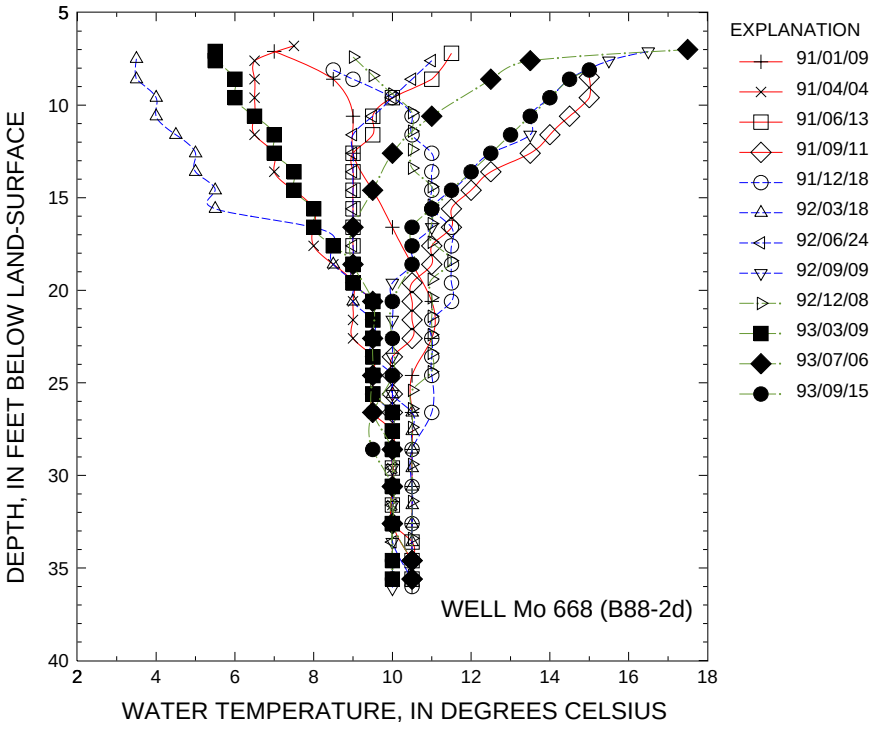
GROUND-WATER TEMPERATURE PROFILES

Ellison park

430928077314002. Local number Mo 668 (B88-2d)--continued

WATER TEMPERATURE, IN DEGREES CELSIUS

Depth, in feet	1991 WY				1992 WY				1993 WY			
	Jan 9	Apr 4	Jun 13	Sep 11	Dec 18	Mar 18	Jun 24	Sep 9	Dec 8	Mar 9	Jul 6	Sep 15
7.00	7.0	7.5	11.5	--	--	--	--	16.5	--	5.5	17.5	--
7.60	--	6.5	--	--	--	3.5	11.0	15.5	9.0	5.5	13.5	--
8.10	--	--	--	--	8.5	--	--	--	--	--	--	15.0
8.60	8.5	6.5	11.0	15.0	9.0	3.5	10.5	14.5	9.5	6.0	12.5	14.5
9.60	--	6.5	10.0	15.0	10.0	4.0	10.0	14.0	10.0	6.0	--	14.0
10.60	9.0	6.5	9.5	14.5	10.5	4.0	9.5	13.5	10.5	6.5	11.0	13.5
11.60	--	6.5	9.5	14.0	10.5	4.5	9.0	13.5	10.5	7.0	--	13.0
12.60	9.0	7.0	9.0	13.5	11.0	5.0	9.0	12.5	10.5	7.0	10.0	12.5
13.60	--	7.0	9.0	12.5	11.0	5.0	9.0	12.0	10.5	7.5	--	12.0
14.60	9.5	7.5	9.0	12.0	11.0	5.5	9.0	11.5	11.0	7.5	9.5	11.5
15.60	--	8.0	9.0	11.5	11.0	5.5	9.0	11.0	11.0	8.0	--	11.0
16.60	10.0	8.0	9.0	11.5	11.5	8.0	9.0	11.0	11.0	8.0	9.0	10.5
17.60	--	8.0	9.0	11.0	11.5	8.5	9.0	10.5	11.0	8.5	--	10.5
18.60	10.5	8.5	9.0	11.0	11.5	8.5	9.0	10.5	11.5	9.0	9.0	10.5
19.60	--	9.0	9.0	10.5	11.5	9.0	9.0	10.0	11.0	9.0	--	--
20.60	11.0	9.0	9.5	10.5	11.5	9.0	9.5	10.0	11.0	9.5	9.5	10.0
21.60	--	9.0	9.5	10.5	11.0	9.5	9.5	10.0	11.0	9.5	--	--
22.60	11.0	9.0	9.5	10.5	11.0	9.5	9.5	10.0	11.0	9.5	9.5	10.0
23.60	--	9.5	9.5	10.0	11.0	9.5	9.5	10.0	11.0	9.5	--	--
24.60	10.5	9.5	9.5	10.0	11.0	10.0	9.5	10.0	11.0	9.5	9.5	10.0
25.60	--	9.5	9.5	10.0	--	10.0	9.5	10.0	10.5	9.5	--	--
26.60	10.5	9.5	10.0	10.0	11.0	10.5	10.0	10.0	10.5	10.0	9.5	9.5
27.60	--	10.0	10.0	--	--	10.5	10.0	10.0	10.5	10.0	--	--
28.60	10.5	10.0	10.0	10.0	10.5	10.5	--	10.0	--	10.0	10.0	9.5
29.60	--	10.0	10.0	--	--	10.5	10.0	10.0	10.5	--	--	--
30.60	10.5	10.0	10.0	10.0	10.5	10.5	--	10.0	--	10.0	10.0	10.0
31.60	--	10.0	10.0	--	--	10.5	10.0	10.0	10.5	--	--	--
32.60	10.5	10.0	10.0	10.0	10.5	10.5	--	10.0	--	10.0	10.0	10.0
33.60	--	--	10.5	--	--	10.5	10.0	10.0	10.5	--	--	--
34.60	10.5	10.0	10.5	10.5	10.5	10.5	--	10.0	--	10.0	10.5	10.0
35.60	--	10.0	10.5	10.5	--	10.5	10.5	10.0	10.5	10.0	10.5	10.0
36.00	10.5	--	--	--	10.5	--	--	10.0	--	--	--	--



430117077350101. At Mendon Ponds, Rochester, N.Y.

LOCATION.--Lat 43˚01'17", long 77˚35'01", Monroe County, Hydrologic Unit 04130003, in Mendon Ponds County Park, 200 ft east of rangers' quarters, 300 ft east of State Highway 65, and 1.7 mi south of Interstate Highway 90.

PERIOD OF RECORD.--May 1985 to current year.

EQUIPMENT.--Weighing bucket rain gage with graphic recorder.

REMARKS.--Records poor. Because of large amounts of missing or questionable data, no attempt has been made to estimate the missing record.

1. RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

October 1988 To September 1989

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	---	.00	---	.80	.40	.50	.10	.00	.30
2	.20	.35	.00	---	---	.00	.00	.80	.20	.00	.20	.00
3	.20	.00	.00	---	---	.00	.20	.00	.10	.00	1.10	.00
4	---	.00	---	---	---	.20	.35	.00	.00	.00	.00	.00
5	.10	.40	---	.00	---	.20	.05	.00	.00	.00	.00	.00
6	---	.00	---	.15	---	---	.00	.00	.00	.00	.00	.00
7	---	.05	.00	.00	---	.10	.00	---	.00	.00	.00	.00
8	.00	.10	.00	.05	---	---	.00	---	.00	.00	.00	.00
9	---	.00	---	---	---	.00	.00	---	1.10	.00	.00	.00
10	---	.00	---	---	---	.00	.00	---	.00	.00	.00	.10
11	---	.00	---	.00	.00	.00	.00	---	.00	.00	.00	.00
12	.00	.00	---	.00	.00	.10	.00	---	.10	.10	.00	.00
13	.00	.00	---	.00	.00	.00	.10	---	.30	.00	.00	.10
14	.00	---	.10	.05	.00	.00	.00	---	.30	.10	.00	.90
15	.20	---	.00	.00	.10	.00	.00	---	.00	.00	.00	.20
16	.05	.10	---	.00	.00	.00	.00	---	.40	.00	.20	.30
17	.00	.00	---	---	.00	.10	.00	---	.40	.00	.00	.50
18	.40	.00	---	.00	.00	.40	.00	---	.00	.00	.00	.00
19	.00	.00	---	.00	---	.05	.00	---	.00	.10	.60	.00
20	.00	.85	---	.10	---	.15	.00	---	1.40	.00	.00	.00
21	.15	---	.00	.00	.20	.05	.00	---	.00	.20	.00	.00
22	1.05	---	.00	---	.00	---	.00	---	.00	.00	.00	.40
23	.00	.00	.10	---	---	.00	.00	---	.10	.10	.00	.50
24	.00	.00	.20	---	---	.10	.00	---	.00	.10	.00	.00
25	.00	---	---	.00	.00	.05	.00	---	.00	.00	.10	.00
26	.00	---	---	.30	.10	.00	.00	.00	.00	.10	.00	.00
27	.00	---	---	.00	---	.00	.00	.00	.20	.00	.00	.00
28	.05	---	.05	.00	.00	.05	.00	.00	.10	.00	.00	.00
29	.00	---	.00	.00	---	.00	.10	.00	.00	.10	.10	.00
30	.00	.00	---	.05	---	.45	.00	.30	.00	.10	.00	.00
31	.00	---	---	.00	---	.40	---	.20	---	.00	.00	---
TOTAL	---	---	---	---	---	---	1.60	---	5.20	1.10	2.30	3.30

430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

October 1989 To September 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.20	.00	---	---	---	---	.00	---	.10	.00	.00
2	.40	.00	.00	---	---	.00	---	.00	---	.00	.00	.00
3	.00	.20	.00	---	---	.00	---	.10	---	.00	.00	.00
4	.00	.00	.00	---	---	.00	---	---	.00	.30	.00	.00
5	.00	.00	.10	---	---	.00	---	---	.00	.20	1.30	.80
6	.00	.00	.20	---	---	.00	---	---	.00	.10	.50	.00
7	.10	.40	.00	---	---	.45	---	---	.00	.00	.00	.30
8	.00	.00	.00	---	---	.00	---	---	.40	.20	.00	.00
9	.00	.20	.00	---	---	.00	---	---	.00	.50	.00	.20
10	.00	.10	.00	---	---	.00	---	---	.00	.00	.10	.00
11	.00	.00	.00	---	---	---	---	---	.00	.00	.00	.00
12	.00	.00	.00	---	---	---	---	---	.00	.10	1.00	.00
13	.00	.00	.00	---	---	---	---	---	.00	.00	.60	.00
14	.00	.00	.00	---	---	---	---	---	.00	.00	.00	.20
15	.30	.00	.00	---	---	---	---	---	.00	.10	.00	.10
16	.00	.40	.00	---	---	---	---	---	.00	.20	.00	.00
17	.10	.10	.00	---	---	---	---	---	.00	.10	.00	.10
18	.60	.00	.00	---	---	---	---	---	.20	.00	.00	.10
19	.10	.00	.00	---	---	---	---	---	.10	.00	.00	.10
20	.20	.40	---	---	---	---	---	---	.00	.40	.00	.00
21	.70	.00	---	---	---	---	---	---	.00	.00	.00	.00
22	.00	.00	---	---	.15	---	---	---	.70	.00	.00	.10
23	.10	.00	---	---	.15	---	---	---	.00	.30	.00	.00
24	.00	.00	---	---	.30	---	---	---	.00	.10	.00	.00
25	.00	.00	---	---	---	---	---	---	.00	.00	.00	.10
26	.00	.10	---	---	---	---	---	---	.00	.00	.00	.20
27	.00	.10	---	---	---	---	---	---	.00	.10	.00	.00
28	.00	.00	---	---	---	---	---	---	.00	.10	.10	.00
29	.00	.00	---	---	---	---	---	---	.00	.10	.00	.30
30	.00	.00	---	---	---	---	---	---	.40	.00	.00	.50
31	.00	---	---	---	---	---	---	---	---	.40	.00	---
TOTAL	2.60	2.20	---	---	---	---	---	---	---	3.40	3.60	3.10

430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

RAINFALL ACCUMULATED (INCHES), DAILY SUM VALUES

October 1990 To September 1991

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.10	.00	---	.00	.00
2	.00	.00	---	---	---	---	---	.10	.00	.00	.00	.00
3	.00	---	---	---	---	---	---	.00	.00	.00	.60	.00
4	.70	---	---	---	---	---	---	.00	.00	.10	.00	.50
5	.10	---	---	---	---	---	---	.10	.00	1.00	.00	.00
6	.00	---	---	---	---	---	---	.20	.00	.00	.00	.10
7	.00	---	---	---	---	---	---	.00	.00	.40	.00	.00
8	.10	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	.70	---	---	---	---	---	---	.00	.00	.00	1.00	.00
10	.30	---	---	---	---	---	---	.10	.00	.00	.00	.30
11	1.10	---	---	---	.20	---	---	.00	.00	.00	.10	.00
12	.30	---	---	---	.00	---	---	.00	.20	.00	.00	.00
13	.70	---	---	---	.10	---	---	.00	.00	.20	.00	.10
14	.00	---	---	---	.20	---	---	.30	---	.00	.20	.00
15	.00	---	---	---	.00	---	---	.00	---	.00	.00	.10
16	.00	---	---	---	.00	---	---	.00	---	.10	.00	.00
17	.00	---	---	---	.00	---	---	.40	---	.00	.00	.00
18	.50	---	---	---	.30	---	.00	.00	---	.00	.00	.10
19	.00	---	---	---	.00	---	.20	.00	---	.00	.00	.20
20	.00	---	---	---	.00	---	.50	.00	---	.00	.70	.00
21	.00	---	---	---	.00	---	1.20	.00	---	.30	.00	.00
22	.30	---	---	---	.00	---	.60	.00	---	.10	.00	.00
23	.60	---	---	---	.10	---	.00	.00	---	.00	.00	.20
24	.00	---	---	---	.00	---	.10	.00	---	.00	.00	.20
25	.10	---	---	---	.10	---	.00	.00	---	.00	.00	.70
26	.00	---	---	---	.00	---	.00	.60	---	.00	.00	.00
27	.00	---	---	---	.20	---	.00	.00	---	.00	.00	.00
28	.20	---	---	---	.00	---	.00	.00	---	.00	.00	.00
29	.00	---	---	---	---	---	.00	.00	---	.00	.00	.00
30	.00	---	---	---	---	---	.00	.00	---	.10	.00	.00
31	.00	---	---	---	---	---	---	.00	---	.00	.10	---
TOTAL	5.70	---	---	---	---	---	---	1.90	---	---	2.70	2.50

430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

RAINFALL ACCUMULATED (INCHES), DAILY SUM VALUES

October 1991 To September 1992

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.00	.00	.00	---	---	.20	.00	.20	---	---	---
2	.00	.00	.10	.00	---	---	.00	1.30	.00	---	---	---
3	.00	.00	.70	.00	---	---	.00	.00	.00	---	---	---
4	.10	.00	.30	.10	---	.10	.00	.00	.10	---	---	---
5	.30	.00	.30	.10	---	.10	.00	.00	.20	---	---	---
6	.00	.00	.10	.00	---	.00	.00	.00	.20	---	---	---
7	.00	.30	.10	.00	---	.60	.10	.00	.00	---	---	---
8	.00	.00	.00	---	---	.00	.00	.00	.00	---	---	---
9	.00	.00	.10	---	---	.10	.10	.20	.00	---	---	---
10	.60	.30	.00	---	---	.00	.00	.00	.20	---	---	---
11	.00	.70	.00	---	---	1.10	.80	.00	.00	---	---	---
12	.00	.00	.10	---	---	.00	.00	.00	.10	---	---	---
13	.10	.00	.00	---	---	.00	.00	.00	.00	---	---	---
14	.00	.00	.10	---	---	.00	.00	.00	.00	---	---	---
15	.40	.20	.10	---	---	.00	.00	.00	---	---	---	---
16	.00	.00	.00	---	---	.00	1.00	.00	---	---	---	---
17	.00	.00	.10	---	---	.00	.00	.70	---	---	---	---
18	.00	.00	---	---	---	.00	.30	.20	---	---	---	.90
19	.20	.00	.00	---	---	.00	.00	.00	---	---	---	.00
20	.00	.20	.00	---	---	.00	.00	.00	---	---	---	.00
21	.00	.10	.10	---	---	.00	.40	.00	---	---	---	1.00
22	.00	.00	.00	---	---	.10	.00	.00	---	---	---	.30
23	.00	.00	.00	---	---	.00	.10	.00	---	---	---	.00
24	.00	.20	.10	---	---	.00	.30	.30	---	---	---	.00
25	.00	.00	.00	---	---	.00	.10	.00	---	---	---	.00
26	.00	.10	.00	---	---	.40	.00	.50	---	---	---	.40
27	.00	.00	.00	---	---	1.40	.00	.10	---	---	---	.40
28	.00	.30	.00	---	---	.10	.00	.00	---	---	---	.00
29	.00	.40	1.30	---	---	.00	.00	.10	---	---	---	.00
30	.00	.00	.00	---	---	.00	.10	.70	---	---	---	.00
31	.00	---	.00	---	---	.00	---	.40	---	---	---	---
TOTAL	2.10	2.80	---	---	---	---	3.50	4.50	---	---	---	---

430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

RAINFALL ACCUMULATED (INCHES), DAILY SUM VALUES

October 1992 To September 1993

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	---	.80	.00	.10	.00	.00	.10
2	.00	1.00	.00	.00	.10	.00	.70	.00	.00	.40	.10	.50
3	.00	.10	.00	.30	.00	.00	.10	.00	.00	.00	.00	.00
4	.00	.10	.10	.40	.00	.30	.00	.00	.00	.00	.00	.00
5	.00	.40	.10	.00	.10	.20	.00	.20	1.30	.00	.00	.00
6	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00	1.00
7	.00	.00	.10	.00	.00	.00	.00	.00	.00	.00	.30	.00
8	.00	.00	.20	.10	.00	.10	.00	.00	.30	.00	.00	.00
9	.90	.00	.00	.00	.00	.00	.00	.00	.30	.30	.00	.30
10	.00	.10	.20	.10	.00	.20	.40	.00	.20	.00	.00	.40
11	.40	.10	.80	.10	.00	.00	.00	.10	.00	.00	.00	.00
12	.00	.00	.40	.00	.40	.00	.00	.00	.10	.50	.00	.10
13	.00	.00	.30	.80	.10	.90	.00	.00	.00	.00	.10	.00
14	.00	.00	.10	.10	.00	.50	.00	.00	.00	.00	.20	.00
15	.30	.30	.00	.10	.00	.00	.00	.00	.00	.00	.00	.00
16	.20	.10	.00	.00	.30	.20	.60	.00	.00	.00	.40	.00
17	.00	.00	.20	.00	.00	.10	.20	.00	.00	.00	.10	.00
18	.00	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	---	.00	.00	.00	.00	.00	.00	.30	.60	.00	.00
20	.00	---	.10	.00	---	.10	.20	.00	.10	.00	.60	.00
21	.00	---	.00	.10	---	.00	.10	.00	.10	.00	.00	.00
22	.00	---	.00	.10	---	.00	.70	.10	.00	.00	.10	.00
23	.00	.00	.00	.10	---	.30	.00	.00	.00	.00	.00	.40
24	.80	.30	.10	.20	---	.00	.00	.10	.00	.00	.00	.00
25	.10	.10	.00	.00	---	.00	.30	.10	.00	.00	.00	.00
26	.00	.00	.00	.00	---	.00	.00	.00	.00	.20	.10	.80
27	.00	.00	.00	.00	---	.00	.00	.00	.10	.00	.00	.40
28	.00	.00	.00	.10	---	.10	.00	.10	.20	.00	.00	.10
29	.00	.00	.30	.00	---	.10	.00	.00	.10	.00	.10	.10
30	.00	.00	.70	.20	---	.00	.00	.00	.00	.20	.00	.10
31	.00	---	.10	.00	---	.10	---	.50	---	.00	.70	---
TOTAL	2.70	---	3.90	2.80	---	---	4.10	1.20	3.20	2.20	2.80	4.30

430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

PERIOD OF RECORD.--June 1980 to current year (monthly composite).
June 1980 to current year (monthly wetfall).
June 1980 to current year (monthly dustfall).

INSTRUMENTATION.-- The composite sample collector is a straight-sided polyethlyene funnel approximately 6.5 in. in diameter that drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethlyene funnel is heated during the cold-weather season to aid in complete collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft above ground level.

Wetfall and dustfall sample collector. An automatic sensor detects precipitation and activates a motor that removes the cover from the wetfall-collection vessel and covers the dustfall-collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethlyene and have a collection diameter of 11.26 in. and a capacity of about 3.4 gallons. The openings of the collectors are approximately 8 ft above ground level.

REMARKS.--Inches of precipitation are obtained from an onsite recording weighing-bucket rain gage.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

2. CHEMICAL QUALITY OF PRECIPITATION - MONTHLY DUSTFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989									
OCT 05-NOV 03	e2.35	1.9	0.38	0.17	0.20	0.80	<10	0.63	1.1
NOV 03-DEC 01	e1.50	0.63	0.30	0.13	0.20	0.30	<5.0	0.57	0.86
DEC 01-JAN 05	e0.45	7.2	0.59	2.1	0.09	3.4	5.0	0.42	0.76
JAN 05-FEB 02	e0.70	2.0	0.59	1.6	0.13	4.2	7.0	0.90	1.1
FEB 02-MAR 02	e0.40	2.0	0.49	3.3	<0.05	4.3	10	0.58	0.95
MAR 02-APR 05	e3.75	2.3	0.68	1.4	0.25	2.5	10	0.85	1.8
APR 05-MAY 04	1.40	3.4	0.88	0.33	0.31	0.70	10	0.80	1.2
MAY 04-JUN 01	4.50	2.2	0.46	0.21	1.0	0.80	11	1.70	6.6
JUN 01-JUL 05	5.30	3.4	1.1	0.42	6.1	2.5	14	2.50	16
JUL 05-AUG 01	1.00	1.3	0.25	0.04	0.21	0.30	<5.0	0.12	0.66
AUG 01-SEP 01	2.30	1.8	0.51	0.04	1.2	0.70	9.0	0.45	3.8
SEP 01-OCT 02	3.70	1.7	0.35	0.10	0.40	0.50	7.0	0.65	1.4

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
OCT 05-NOV 03	0.95	0.075	0.023	29	5.4	2.6	5	--
NOV 03-DEC 01	0.68	0.045	0.021	24	5.1	2.9	7	--
DEC 01-JAN 05	1.40	0.055	0.014	41	5.3	2.4	14	--
JAN 05-FEB 02	1.80	0.060	0.018	48	4.7	4.0	10	--
FEB 02-MAR 02	1.70	0.065	0.014	50	5.0	4.4	12	--
MAR 02-APR 05	2.30	0.110	0.041	63	4.4	6.8	<5	--
APR 05-MAY 04	1.10	0.080	0.018	42	5.7	3.2	14	--
MAY 04-JUN 01	0.74	0.830	0.500	49	4.9	7.5	15	--
JUN 01-JUL 05	0.53	2.66	2.12	80	6.6	9.7	11	--
JUL 05-AUG 01	0.38	0.120	0.036	21	6.0	3.8	<5	--
AUG 01-SEP 01	0.47	0.540	0.410	33	5.4	6.4	7	--
SEP 01-OCT 02	0.33	0.250	0.160	27	5.6	3.5	5	--

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430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY DUSTFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990									
OCT 02-NOV 01	2.40	1.8	0.45	0.08	0.67	0.20	5.0	0.32	0.87
NOV 01-DEC 01	2.00	1.9	0.39	0.89	0.10	1.4	5.0	0.78	1.2
DEC 01-JAN 02	--	1.2	0.31	3.2	<0.05	4.7	6.0	0.48	0.58
JAN 02-FEB 02	--	1.4	0.52	1.3	<0.05	1.4	7.0	0.93	1.3
FEB 02-MAR 01	--	0.97	0.28	0.54	0.01	0.80	<5.0	0.34	0.40
MAR 01-APR 02	--	2.7	0.74	1.1	0.11	1.1	10	0.55	0.94
APR 02-MAY 01	--	2.8	0.66	0.32	0.81	0.60	9.0	0.62	5.1
MAY 01-JUN 04	3.70	3.8	0.96	0.13	0.42	0.60	9.0	0.26	2.2
JUN 04-JUL 02	1.90	2.3	0.58	0.12	1.1	2.3	8.0	0.43	3.2
JUL 02-AUG 01	3.30	1.9	0.47	0.10	0.25	0.40	7.0	0.26	1.1
AUG 01-SEP 04	3.60	1.5	0.32	0.07	0.12	0.40	9.0	<0.01	0.60
SEP 04-OCT 02	3.10	1.9	0.37	0.10	0.16	0.20	14	1.00	1.7
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991									
OCT 02-NOV 02	5.70	2.1	0.76	0.31	1.9	1.1	<10	0.54	2.0
NOV 02-DEC 04	--	0.89	0.16	0.23	0.07	0.40	<10	0.56	0.72
DEC 04-JAN 02	--	0.18	0.04	0.16	0.02	0.80	<10	0.15	0.16
JAN 02-FEB 05	--	1.0	0.32	2.6	0.03	4.5	5.0	0.52	0.62
FEB 05-MAR 01	--	1.8	0.45	1.2	0.06	1.6	4.0	0.69	0.75
MAR 01-APR 03	--	0.64	0.23	0.17	0.05	0.37	4.0	0.43	0.68
APR 03-MAY 01	--	2.7	0.54	0.23	0.77	0.58	<10	0.72	2.6
MAY 01-JUN 05	1.90	2.4	0.67	0.13	1.2	1.9	<10	0.37	3.9
JUL 02-AUG 01	2.30	0.67	0.32	0.63	11	1.2	<10	0.08	5.2
AUG 01-SEP 05	3.20	1.8	0.47	0.44	0.20	0.30	<10	0.08	0.80
SEP 05-OCT 01	2.90	2.3	0.44	0.22	0.08	0.30	<10	0.28	1.1

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990								
OCT 02-NOV 01	0.80	0.120	0.058	27	5.5	2.2	7	--
NOV 01-DEC 01	1.50	0.065	0.016	36	5.7	6.2	8	--
DEC 01-JAN 02	1.80	0.025	0.018	--	4.4	6.1	6	--
JAN 02-FEB 02	1.70	0.025	0.016	52	4.4	5.0	11	<40
FEB 02-MAR 01	0.85	0.015	0.008	3	4.5	3.1	10	<40
MAR 01-APR 02	1.60	0.055	0.019	48	4.7	2.7	6	60
APR 02-MAY 01	0.88	0.310	0.255	40	5.8	4.7	<5	50
MAY 01-JUN 04	1.00	0.260	0.047	43	5.8	2.2	10	50
JUN 04-JUL 02	0.71	0.410	0.236	32	5.6	3.1	18	<40
JUL 02-AUG 01	0.54	0.130	0.068	87	5.0	3.6	8	70
AUG 01-SEP 04	0.11	0.035	0.014	21	5.6	2.2	28	100
SEP 04-OCT 02	0.85	0.085	0.044	45	4.5	4.3	<5	50
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 02-NOV 02	1.30	0.590	0.450	51	4.3	9.5	8	<40
NOV 02-DEC 04	1.00	0.020	0.006	52	4.0	6.8	<5	<40
DEC 04-JAN 02	0.22	0.010	0.009	14	4.6	3.4	<5	<40
JAN 02-FEB 05	1.70	0.020	0.013	73	4.0	8.2	12	<40
FEB 05-MAR 01	1.50	0.010	0.008	36	5.0	2.2	9	40
MAR 01-APR 03	0.87	0.015	0.009	36	4.5	7.0	22	40
APR 03-MAY 01	0.93	0.040	0.069	36	5.6	2.6	7	50
MAY 01-JUN 05	0.55	0.490	0.305	36	6.0	4.5	9	130
JUL 02-AUG 01	0.60	0.770	0.520	26	5.8	3.6	6	40
AUG 01-SEP 05	0.36	0.090	0.039	21	6.3	1.8	7	50
SEP 05-OCT 01	0.76	0.085	0.015	25	6.1	1.7	10	<40

430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY DUSTFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992									
OCT 01-NOV 07	2.40	2.1	0.47	0.20	0.68	0.21	<10	<0.01	1.1
NOV 07-DEC 04	3.40	1.3	0.33	1.3	1.1	1.2	<10	0.89	1.3
DEC 04-JAN 07	2.70	1.8	0.50	2.4	0.11	3.5	<10	0.75	1.0
JAN 07-FEB 04	--	1.9	0.58	3.4	<0.02	5.0	<10	0.48	0.72
FEB 04-MAR 04	--	2.4	0.75	1.9	0.06	3.5	10	0.12	1.4
MAR 04-APR 02	4.20	2.7	0.72	2.9	0.07	3.1	<10	0.54	0.91
APR 02-MAY 06	4.60	4.5	1.2	0.61	0.40	0.60	11	0.58	2.7
MAY 06-JUN 02	3.40	2.6	0.79	0.59	1.0	0.60	7.0	0.51	3.6
JUN 02-JUL 06	--	2.3	0.99	0.54	4.6	2.5	9.0	2.00	13
JUL 06-28	--	0.94	0.20	0.07	0.31	0.40	10	0.54	1.1
JUL 28-SEP 01	--	0.34	0.07	0.01	<0.05	0.50	<10	0.36	0.57
SEP 01-OCT 01	--	1.8	0.33	0.09	1.8	0.80	4.0	0.13	0.90
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993									
OCT 01-NOV 05	4.30	2.6	0.56	0.17	0.82	0.70	9.0	0.75	1.5
NOV 05-DEC 02	e1.40	1.0	0.19	0.30	0.10	0.40	6.0	0.97	0.99
DEC 01-JAN 06	4.60	1.4	0.55	1.6	0.11	2.1	10	0.84	1.4
JAN 06-FEB 02	2.20	1.2	0.32	2.4	0.05	4.9	3.0	0.42	0.55
FEB 02-MAR 02	e1.00	1.2	0.29	3.2	0.08	3.1	3.0	0.35	0.46
MAR 02-APR 01	4.00	1.8	0.53	1.3	0.11	0.60	7.0	0.55	0.86
APR 01-MAY 05	3.50	3.0	0.64	0.34	0.23	0.72	10	0.36	1.1
MAY 05-JUN 02	1.10	3.0	0.69	0.22	0.38	1.2	--	<0.01	1.8
JUN 02-JUL 01	3.10	2.0	0.57	0.33	2.6	1.4	--	0.80	7.2
JUL 01-AUG 05	2.30	1.8	0.68	0.26	2.4	0.60	7.0	0.16	2.2
AUG 05-SEP 02	3.30	1.4	0.29	0.16	0.40	0.41	6.0	0.41	1.1
SEP 01-OCT 01	4.20	1.9	0.34	0.19	0.50	0.63	5.2	0.62	1.2

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
OCT 01-NOV 07	<0.01	0.300	0.200	29	6.1	3.1	10	<40
NOV 07-DEC 04	1.00	0.150	0.115	33	4.8	4.6	<5	<40
DEC 04-JAN 07	1.60	0.020	0.014	42	5.4	2.9	17	50
JAN 07-FEB 04	1.50	0.055	0.023	50	5.5	2.4	11	50
FEB 04-MAR 04	2.10	0.020	0.018	57	4.9	2.9	9	60
MAR 04-APR 02	1.50	0.020	0.007	42	6.1	1.5	9	<40
APR 02-MAY 06	1.80	0.320	0.180	53	6.2	3.0	12	80
MAY 06-JUN 02	1.30	0.450	0.094	45	4.5	9.3	6	40
JUN 02-JUL 06	1.10	3.50	3.10	62	5.7	14	6	80
JUL 06-28	0.22	0.130	0.050	18	6.0	2.3	<5	<40
JUL 28-SEP 01	0.33	0.015	0.006	25	4.3	3.5	<5	<40
SEP 01-OCT 01	0.38	0.260	0.155	24	6.5	2.2	<5	40
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993								
OCT 01-NOV 05	1.40	0.280	0.150	38	5.5	3.1	7	<40
NOV 05-DEC 02	1.60	0.045	0.018	59	4.1	8.8	<5	30
DEC 01-JAN 06	2.10	0.045	0.010	57	4.7	8.9	15	50
JAN 06-FEB 02	1.10	0.030	0.008	30	5.6	2.2	8	40
FEB 02-MAR 02	1.50	0.010	0.008	40	5.4	3.0	8	<40
MAR 02-APR 01	1.70	0.030	0.019	39	5.1	2.9	11	<40
APR 01-MAY 05	0.74	0.120	0.030	33	6.3	2.5	11	<40
MAY 05-JUN 02	0.86	0.240	0.063	32	6.3	2.9	13	40
JUN 02-JUL 01	0.52	1.45	0.475	39	5.7	12	<5	60
JUL 01-AUG 05	0.45	0.370	0.240	31	5.4	4.0	5	90
AUG 05-SEP 02	0.22	0.160	0.115	24	5.4	2.8	<5	70
SEP 01-OCT 01	0.67	0.200	0.150	25	5.8	1.6	5	<40

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CHEMICAL QUALITY OF PRECIPITATION - MONTHLY WETFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989									
OCT 05-NOV 03	e2.35	0.39	0.11	0.08	0.06	0.80	<10	0.34	0.46
NOV 03-DEC 01	e1.50	0.13	0.16	0.08	0.08	<0.20	<5.0	0.18	0.24
DEC 01-JAN 05	e0.45	0.14	0.05	0.20	0.05	<0.20	<5.0	0.16	0.21
JAN 05-FEB 02	e0.70	0.15	0.03	0.50	0.34	2.7	<5.0	0.16	0.48
FEB 02-MAR 02	e0.40	0.90	0.26	1.2	<0.05	6.0	10	0.21	0.68
MAR 02-APR 05	e3.75	0.42	0.08	0.24	0.10	1.4	6.0	0.23	0.33
APR 05-MAY 04	1.40	0.14	0.04	0.10	0.04	0.40	5.0	0.47	0.54
MAY 04-JUN 01	4.50	0.12	<0.01	0.08	0.04	0.40	<5.0	0.30	0.54
JUN 01-JUL 05	5.30	0.06	<0.01	<0.01	0.01	<0.20	6.0	0.21	0.34
JUL 05-AUG 01	1.00	0.08	0.02	0.04	0.05	0.50	<5.0	0.25	0.40
AUG 01-SEP 01	2.30	0.19	<0.04	0.04	0.02	0.30	8.0	0.38	0.42
SEP 01-OCT 02	3.70	0.31	0.03	0.08	0.04	0.50	6.0	0.24	0.30
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990									
OCT 02-NOV 01	2.40	0.48	0.14	0.04	0.36	1.4	5.0	0.20	0.34
NOV 01-DEC 01	2.00	0.10	0.03	0.05	0.02	0.20	<5.0	0.26	0.31
DEC 01-JAN 02	--	<0.12	<0.05	0.18	<0.05	0.20	6.0	0.16	0.10
JAN 02-FEB 02	--	0.10	<0.05	0.10	<0.05	<0.20	<5.0	0.25	0.26
FEB 02-MAR 01	--	0.14	0.03	0.20	0.02	0.40	5.0	0.20	0.20
MAR 01-APR 02	--	0.08	0.02	0.10	0.02	3.8	6.0	0.26	0.26
APR 02-MAY 01	--	0.08	0.02	0.04	<0.01	0.40	6.0	0.11	0.10
MAY 01-JUN 04	3.70	0.12	0.02	0.03	<0.01	0.30	3.0	0.26	0.38
JUN 04-JUL 02	1.90	0.25	0.05	0.03	<0.02	2.0	4.0	0.44	0.55
JUL 02-AUG 01	3.30	0.40	0.07	0.05	0.04	0.50	6.0	0.46	0.49
AUG 01-SEP 04	3.60	0.14	0.02	0.02	0.03	0.40	10	0.49	0.56
SEP 04-OCT 02	3.10	0.14	0.02	0.02	0.02	0.40	<9.0	0.36	0.42

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989								
OCT 05-NOV 03	0.85	0.015	0.008	40	4.2	6.0	<5	--
NOV 03-DEC 01	0.42	0.005	0.003	21	4.4	4.0	9	--
DEC 01-JAN 05	0.34	0.010	0.004	20	4.5	3.3	<5	--
JAN 05-FEB 02	0.35	0.010	0.006	27	4.3	5.3	<5	--
FEB 02-MAR 02	0.98	0.045	0.015	37	4.5	4.8	6	--
MAR 02-APR 05	0.51	0.025	0.006	29	4.3	5.8	7	--
APR 05-MAY 04	0.51	0.010	0.002	31	4.3	5.4	8	--
MAY 04-JUN 01	0.44	0.010	0.002	32	4.2	5.2	6	--
JUN 01-JUL 05	0.38	0.010	<0.002	29	4.3	4.7	N11	--
JUL 05-AUG 01	0.28	0.010	0.006	20	4.5	5.3	<5	--
AUG 01-SEP 01	0.40	0.015	0.004	40	4.2	6.0	<5	--
SEP 01-OCT 02	0.57	0.015	0.002	44	4.1	6.4	11	--
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990								
OCT 02-NOV 01	0.46	0.072	0.036	23	4.5	4.0	7	--
NOV 01-DEC 01	0.50	0.010	0.005	N34	4.5	4.8	5	--
DEC 01-JAN 02	0.60	0.005	0.005	--	4.4	4.8	<5	--
JAN 02-FEB 02	0.60	0.007	0.004	N23	4.4	4.7	8	<40
FEB 02-MAR 01	0.50	0.005	0.003	4	4.3	6.2	5	<40
MAR 01-APR 02	0.48	0.005	<0.002	33	4.2	5.7	<5	<40
APR 02-MAY 01	0.36	0.005	0.002	N24	N6.0	N2.7	<5	<40
MAY 01-JUN 04	0.44	0.012	<0.002	N28	4.2	6.0	8	<40
JUN 04-JUL 02	0.48	0.008	0.003	34	4.2	6.5	<5	<40
JUL 02-AUG 01	0.67	0.015	0.010	47	4.1	22	5	<40
AUG 01-SEP 04	0.50	<0.005	<0.002	60	4.0	8.7	<5	<40
SEP 04-OCT 02	0.53	<0.005	0.002	39	4.0	6.2	<5	<40

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CHEMICAL QUALITY OF PRECIPITATION - MONTHLY WETFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991									
OCT 02-NOV 02	5.70	0.08	0.01	0.06	0.02	0.20	<10	0.11	0.32
FEB 05-MAR 01	--	0.32	0.07	0.26	0.03	0.21	4.0	0.19	0.46
APR 03-MAY 01	--	0.32	0.04	0.07	0.03	0.64	<10	0.27	0.72
MAY 01-JUN 05	1.90	0.34	0.05	<0.02	0.05	0.49	<10	0.89	1.6
JUL 02-AUG 01	2.30	0.34	--	<0.01	0.17	0.21	<10	0.65	1.4
AUG 01-SEP 05	3.20	0.08	0.02	0.08	0.04	0.30	<10	0.45	0.58
SEP 05-OCT 01	2.90	0.24	0.04	0.05	<0.02	0.20	<10	0.38	0.51
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992									
OCT 01-NOV 07	2.40	0.65	0.07	0.12	0.05	N0.36	<10	1.10	1.2
NOV 07-DEC 04	3.40	0.25	<0.15	0.31	<0.05	1.3	<10	0.18	0.42
DEC 04-JAN 07	2.70	0.18	0.03	0.08	0.02	0.55	<10	0.13	0.38
JAN 07-FEB 04	--	0.27	0.04	0.19	<0.02	0.21	<10	0.21	0.42
FEB 04-MAR 04	--	0.22	0.04	0.19	0.05	0.90	<10	0.43	0.49
MAR 04-APR 02	4.20	0.14	0.03	0.07	0.02	0.40	<10	0.08	0.14
APR 02-MAY 06	4.60	0.29	0.04	0.06	0.02	0.20	10	0.53	0.59
MAY 06-JUN 02	3.40	0.74	0.22	0.21	0.52	0.60	7.0	0.88	2.1
JUN 02-JUL 06	--	0.70	0.16	0.05	0.31	0.40	7.0	0.80	1.5
JUL 06-28	--	0.20	0.04	0.04	0.04	0.30	<10	0.26	0.35
JUL 28-SEP 01	--	0.41	0.07	0.01	<0.05	0.30	11	0.74	0.77
SEP 01-OCT 01	--	0.05	0.06	0.04	<0.05	0.60	3.0	0.18	0.31

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 02-NOV 02	0.26	<0.005	<0.002	20	4.4	4.0	<5	<40
FEB 05-MAR 01	0.82	0.010	0.006	30	4.3	5.5	8	110
APR 03-MAY 01	0.42	0.005	<0.002	19	4.5	3.4	7	<40
MAY 01-JUN 05	0.80	0.070	<0.002	54	4.2	7.4	9	<40
JUL 02-AUG 01	0.75	0.055	0.021	58	3.9	9.2	5	<40
AUG 01-SEP 05	0.39	<0.005	<0.002	33	4.2	6.6	<5	<20
SEP 05-OCT 01	0.51	0.012	<0.002	30	4.3	5.0	6	<40
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
OCT 01-NOV 07	<0.01	0.018	0.002	50	4.1	7.9	8	<40
NOV 07-DEC 04	0.35	<0.005	<0.002	19	4.7	3.3	<5	<40
DEC 04-JAN 07	0.27	<0.005	<0.002	14	5.2	2.7	5	<40
JAN 07-FEB 04	0.43	0.005	0.006	19	5.0	4.3	7	<40
FEB 04-MAR 04	0.38	0.005	0.003	34	4.4	5.0	8	40
MAR 04-APR 02	0.25	0.005	0.002	14	5.9	2.8	<5	<40
APR 02-MAY 06	0.65	0.005	<0.002	36	4.4	4.6	<5	20
MAY 06-JUN 02	0.80	0.225	0.043	40	4.4	7.4	7	<20
JUN 02-JUL 06	1.10	0.120	0.036	72	4.0	9.4	5	<40
JUL 06-28	0.34	0.010	<0.002	31	4.4	4.8	<5	<40
JUL 28-SEP 01	1.00	0.010	<0.002	76	3.7	12	<5	<40
SEP 01-OCT 01	0.22	0.010	0.002	20	4.6	3.1	5	40

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CHEMICAL QUALITY OF PRECIPITATION - MONTHLY WETFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993									
OCT 01-NOV 05	4.30	0.64	0.12	0.06	0.47	0.60	4.0	0.40	0.66
NOV 05-DEC 02	e1.40	0.30	0.07	<0.10	<0.10	0.60	3.0	0.30	0.34
DEC 01-JAN 06	4.60	0.32	0.09	0.29	0.05	1.4	2.0	0.19	0.28
FEB 02-MAR 02	e1.00	0.02	0.10	0.87	0.01	1.2	3.0	0.21	0.33
MAR 02-APR 01	4.00	0.59	0.14	0.43	<0.02	0.60	4.0	0.20	0.32
APR 01-MAY 05	3.50	0.79	0.22	0.27	0.08	0.98	8.0	0.58	0.89
MAY 05-JUN 02	1.10	1.5	0.35	0.16	0.14	0.80	--	<0.01	1.5
JUN 02-JUL 01	3.10	1.6	0.30	0.18	0.33	0.50	--	1.60	3.2
JUL 01-AUG 05	2.30	1.7	0.68	0.54	0.42	0.30	19	3.20	3.6
AUG 05-SEP 02	3.30	0.70	0.12	<0.05	0.07	0.41	12	1.10	1.5
SEP 01-OCT 01	4.20	0.50	0.08	0.08	0.08	0.42	5.2	0.56	0.77

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
OCT 01-NOV 05	0.59	0.110	0.064	30	4.5	4.7	<5	<40
NOV 05-DEC 02	0.83	0.025	0.012	34	4.4	6.3	<5	20
DEC 01-JAN 06	0.43	0.010	0.004	35	4.3	6.3	<5	<40
FEB 02-MAR 02	1.20	0.005	0.003	34	4.7	8.4	5	<40
MAR 02-APR 01	0.84	0.015	0.006	37	4.2	5.9	5	<40
APR 01-MAY 05	1.40	0.055	0.002	70	4.1	12	7	<40
MAY 05-JUN 02	0.66	0.085	0.012	29	5.0	4.0	6	<40
JUN 02-JUL 01	2.30	0.140	0.002	129	3.6	22	6	90
JUL 01-AUG 05	N1.80	0.250	0.160	116	3.9	13	<5	<40
AUG 05-SEP 02	1.20	0.030	0.003	105	3.7	15	5	<40
SEP 01-OCT 01	0.68	0.020	<0.002	48	4.1	7.0	6	80

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CHEMICAL QUALITY OF PRECIPITATION - MONTHLY COMPOSITE

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989									
OCT 05-NOV 03	e2.35	0.79	0.13	<0.08	0.03	0.60	<10	0.48	0.75
NOV 03-DEC 01	e1.50	0.64	0.03	<0.08	0.07	<0.20	<5.0	0.41	0.74
DEC 01-JAN 05	e0.45	1.0	0.22	0.60	0.09	1.6	<5.0	0.53	1.2
JAN 05-FEB 02	e0.70	0.90	0.24	0.80	0.12	3.4	<5.0	0.47	1.3
FEB 02-MAR 02	e0.40	0.90	0.24	1.2	0.11	1.7	<5.0	0.42	1.2
MAR 02-APR 05	e3.75	0.90	0.18	0.45	0.11	2.2	8.0	0.30	0.73
APR 05-MAY 04	1.40	1.0	0.24	0.17	0.06	<0.20	7.0	0.50	0.77
MAY 04-JUN 01	4.50	0.48	0.12	<0.05	0.09	0.60	<5.0	0.17	0.71
JUN 01-JUL 05	5.30	0.26	0.07	0.01	0.06	0.60	<5.0	0.08	0.71
JUL 05-AUG 01	1.00	0.57	0.15	0.02	0.10	<0.20	<5.0	0.32	0.72
AUG 01-SEP 01	2.30	0.65	0.16	0.06	0.04	0.30	8.0	0.13	0.90
SEP 01-OCT 02	3.70	0.41	0.08	0.09	0.03	0.50	5.0	0.09	0.38
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990									
OCT 02-NOV 01	2.40	0.87	0.22	0.08	1.0	1.0	6.0	1.40	1.1
NOV 01-DEC 01	2.00	0.78	0.14	0.22	0.10	0.60	<5.0	1.50	2.5
DEC 01-JAN 02	--	0.71	0.17	1.1	0.11	1.9	6.0	0.89	1.3
JAN 02-FEB 02	--	0.66	0.23	0.52	<0.05	0.70	6.0	0.75	1.8
FEB 02-MAR 01	--	0.34	0.10	0.16	<0.01	0.40	<5.0	0.20	0.35
MAR 01-APR 02	--	0.99	0.28	0.65	<0.01	1.4	7.0	0.45	0.62
APR 02-MAY 01	--	0.43	0.12	0.09	0.02	0.50	6.0	0.17	0.28
MAY 01-JUN 04	3.70	0.72	0.18	0.05	0.02	0.80	3.0	0.29	0.75
JUN 04-JUL 02	1.90	1.0	0.32	0.10	0.39	0.60	7.0	1.20	2.8
JUL 02-AUG 01	3.30	0.91	0.24	0.08	0.15	0.70	6.0	0.24	0.89
AUG 01-SEP 04	3.60	0.25	0.08	0.06	0.12	0.50	10	<0.01	0.83
SEP 04-OCT 02	3.10	0.77	0.17	0.07	0.06	0.50	11	0.15	0.51

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989								
OCT 05-NOV 03	0.77	0.055	0.004	30	4.4	4.4	<5	--
NOV 03-DEC 01	0.69	0.020	0.011	25	4.5	4.6	6	--
DEC 01-JAN 05	0.62	0.090	0.045	19	5.5	2.6	5	--
JAN 05-FEB 02	0.81	0.060	0.034	24	5.0	2.3	6	--
FEB 02-MAR 02	1.00	0.085	0.035	35	4.5	4.0	5	--
MAR 02-APR 05	0.88	0.045	0.014	45	4.2	7.0	5	--
APR 05-MAY 04	0.87	0.025	<0.002	43	4.2	7.2	<5	--
MAY 04-JUN 01	0.64	0.020	0.002	46	4.1	8.7	<5	--
JUN 01-JUL 05	0.45	0.030	0.006	49	4.0	13	6	--
JUL 05-AUG 01	0.18	0.050	0.017	18	4.7	11	<5	--
AUG 01-SEP 01	0.50	0.045	0.003	56	4.0	13	<5	--
SEP 01-OCT 02	0.55	0.075	0.009	50	4.0	10	<5	--
WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990								
OCT 02-NOV 01	0.77	0.580	0.450	29	5.7	3.9	<5	--
NOV 01-DEC 01	1.10	0.120	0.052	29	5.1	4.6	<5	--
DEC 01-JAN 02	0.98	0.120	0.085	--	5.0	5.0	<5	--
JAN 02-FEB 02	1.20	0.135	0.038	46	4.3	6.5	8	<40
FEB 02-MAR 01	0.49	0.015	0.003	3	4.3	4.9	12	<40
MAR 01-APR 02	0.94	0.025	0.008	48	4.1	7.0	<5	<40
APR 02-MAY 01	0.58	0.005	N0.006	21	6.3	2.7	8	<40
MAY 01-JUN 04	0.65	0.020	<0.002	38	4.1	8.8	5	<40
JUN 04-JUL 02	0.64	0.130	0.088	38	4.5	7.6	6	<40
JUL 02-AUG 01	0.85	0.030	0.010	70	3.9	16	7	<40
AUG 01-SEP 04	0.42	0.075	0.046	67	3.9	13	<5	60
SEP 04-OCT 02	0.87	0.015	0.002	70	3.8	13	7	<40

430117077350101 At Mendon Ponds, Rochester, N.Y.--continued

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY COMPOSITE

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991									
OCT 02-NOV 02	5.70	0.21	0.05	0.07	0.02	0.42	<10	0.08	0.26
NOV 02-DEC 04	--	0.55	0.10	0.13	0.03	0.70	<10	0.40	1.1
DEC 04-JAN 02	--	0.32	0.07	0.26	0.04	0.80	<10	0.17	0.34
JAN 02-FEB 05	--	0.37	0.12	1.0	0.15	2.0	4.0	0.19	0.61
FEB 05-MAR 01	--	0.54	0.17	0.73	0.09	1.0	4.0	0.27	0.50
MAR 01-APR 03	--	0.50	0.13	0.17	0.07	0.44	3.0	0.20	0.56
APR 03-MAY 01	--	0.50	0.12	0.09	0.02	0.70	<10	0.19	0.72
MAY 01-JUN 05	1.90	0.97	0.25	0.06	0.16	0.49	<10	0.85	1.5
JUN 05-JUL 02	--	0.49	0.12	0.06	0.10	0.55	<10	0.18	0.19
JUL 02-AUG 01	2.30	1.1	0.48	0.15	0.18	0.62	11	2.80	4.9
AUG 01-SEP 05	3.20	0.67	0.26	0.18	0.09	0.40	<10	1.30	2.1
SEP 05-OCT 01	2.90	0.77	0.89	0.06	<0.02	0.20	<10	0.21	0.99
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992									
OCT 01-NOV 07	--	1.1	0.19	0.12	<0.25	1.2	<10	<0.01	0.94
NOV 07-DEC 04	--	0.62	<0.15	0.46	<0.05	1.3	<10	0.50	1.0
DEC 04-JAN 07	--	0.48	0.16	0.57	0.06	1.2	<10	0.31	0.59
JAN 07-FEB 04	--	0.43	0.16	0.64	0.10	1.0	<10	0.20	0.44
FEB 04-MAR 04	--	0.86	0.29	0.97	0.05	1.8	<10	0.39	0.75
MAR 04-APR 02	--	0.65	0.20	0.54	0.01	0.90	<10	0.07	0.45
APR 02-MAY 06	--	0.84	0.24	0.08	0.01	0.10	10	0.34	0.80
MAY 06-JUN 02	--	0.81	0.25	0.15	0.26	0.40	6.0	0.52	1.3
JUN 02-JUL 06	--	0.36	0.12	0.05	0.40	0.70	1.0	0.05	0.41
JUL 06-28	--	0.26	0.21	0.06	0.15	0.30	<10	0.17	0.65
JUL 28-SEP 01	--	0.35	0.08	0.04	0.05	7.2	<10	0.30	1.1
SEP 01-OCT 01	--	0.48	0.08	0.08	0.16	0.90	2.0	0.34	0.97

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 02-NOV 02	0.44	<0.005	<0.002	37	4.1	7.0	8	<40
NOV 02-DEC 04	0.80	0.050	0.002	39	4.2	6.4	<5	<40
DEC 04-JAN 02	0.45	0.010	0.005	29	4.2	4.6	<5	<40
JAN 02-FEB 05	0.81	0.025	0.010	42	4.2	7.4	<5	40
FEB 05-MAR 01	0.84	0.020	0.010	40	4.3	6.6	<5	40
MAR 01-APR 03	0.61	0.020	0.009	32	4.3	5.9	8	<40
APR 03-MAY 01	0.65	0.020	<0.002	31	4.2	6.9	5	<40
MAY 01-JUN 05	0.89	0.070	0.002	54	4.2	8.8	4	<40
JUN 05-JUL 02	0.16	0.015	<0.002	11	5.3	3.5	<5	30
JUL 02-AUG 01	0.82	0.560	0.390	52	4.6	11	6	<40
AUG 01-SEP 05	0.43	0.085	0.014	41	4.3	11	<5	30
SEP 05-OCT 01	0.58	0.060	0.003	38	4.2	8.8	5	<40
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
OCT 01-NOV 07	<0.01	0.040	0.002	49	4.1	8.4	17	<40
NOV 07-DEC 04	0.56	0.060	0.014	26	4.5	5.1	<5	<40
DEC 04-JAN 07	0.70	0.015	0.012	36	4.8	6.6	11	<40
JAN 07-FEB 04	0.63	0.020	0.007	28	5.1	3.1	18	40
FEB 04-MAR 04	1.20	0.035	0.015	59	4.2	7.7	8	40
MAR 04-APR 02	0.59	0.015	0.002	33	4.5	4.8	5	<40
APR 02-MAY 06	0.83	0.020	<0.002	46	4.2	8.8	10	20
MAY 06-JUN 02	0.74	0.075	0.003	40	4.3	9.3	25	<20
JUN 02-JUL 06	0.08	0.025	0.009	20	4.7	7.1	<5	<40
JUL 06-28	0.16	0.035	<0.002	40	4.1	13	<5	<40
JUL 28-SEP 01	0.29	0.075	0.015	31	4.3	9.2	10	<40
SEP 01-OCT 01	0.13	0.085	0.044	20	4.7	7.2	<5	<40

430117077350101 At Mendon Ponds, Rochester, N.Y.--continued

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY COMPOSITE

DATE	RAIN FALL ACCUM (IN)	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993									
OCT 01-NOV 05	4.30	0.74	0.12	0.06	0.08	0.50	4.0	0.18	0.50
NOV 05-DEC 02	e1.40	0.40	0.07	0.10	0.20	0.20	4.0	0.16	0.40
JAN 06-FEB 02	2.20	0.37	0.12	1.0	0.17	3.5	4.0	0.29	0.29
MAR 02-APR 01	4.00	0.59	0.15	0.65	0.12	1.0	4.0	0.22	0.95
APR 01-MAY 05	3.50	0.64	0.15	0.06	0.04	0.82	5.0	0.17	0.48
MAY 05-JUN 02	1.10	1.3	0.31	0.16	0.66	1.9	--	<0.01	1.4
JUN 02-JUL 01	3.10	1.4	0.20	0.13	0.21	0.40	--	0.66	1.4
AUG 05-SEP 02	2.30	0.91	0.19	0.10	0.46	0.51	7.0	0.02	1.2
SEP 01-OCT 01	4.20	--	0.08	0.08	0.08	0.42	5.2	0.56	0.77

DATE	NITRO-GEN, NO2+NO3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µs/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
OCT 01-NOV 05	0.39	0.020	<0.002	31	4.5	5.5	<5	<40
NOV 05-DEC 02	0.28	0.020	0.002	38	4.3	6.6	<5	30
JAN 06-FEB 02	0.92	0.040	<0.002	48	4.1	7.3	8	<40
MAR 02-APR 01	1.00	0.060	0.004	45	4.1	7.4	12	120
APR 01-MAY 05	0.82	0.015	<0.002	47	4.1	8.4	<5	70
MAY 05-JUN 02	0.65	0.040	0.002	27	4.8	5.4	7	<40
JUN 02-JUL 01	0.68	0.170	0.115	38	4.3	9.8	5	100
AUG 05-SEP 02	0.45	0.100	<0.002	65	4.0	15	<5	60
SEP 01-OCT 01	0.68	0.020	<0.002	48	4.1	7.0	6	80

431021077315902 At Empire Boulevard, Rochester, N.Y.

LOCATION.--Lat 43°10'21", long 77°31'59", Monroe County, Hydrologic Unit 04140101, in the Irondequoit wetlands 1,350 ft. south of New York State Highway 404.

PERIOD OF RECORD.--October 1992 to current year (monthly dustfall).
October 1992 to current year (monthly wetfall).

INSTRUMENTATION.--Wetfall and dustfall sample collector. An automatic sensor detects precipitation and activates a motor that removes the cover from the wetfall-collection vessel and covers the dustfall-collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethlyene and have a collection diameter of 11.26 in. and a capacity of about 3.4 gallons. The openings of the collectors are approximately 8 ft above ground level.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

CHEMICAL QUALITY OF PRECIPITATION, MONTHLY DUSTFALL

WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
NOV 05-DEC 02	0.20	0.04	<0.10	0.10	0.20	2.0	0.07	0.10
DEC 02-JAN 05	0.46	0.14	0.85	0.07	1.3	5.0	0.30	0.28
APR 14-MAY 07	2.3	0.56	0.21	0.18	0.52	8.0	0.70	1.6
MAY 07-JUN 02	3.0	0.81	1.9	20	9.2	--	<0.01	24
JUN 02-JUL 01	1.8	0.48	0.26	0.30	0.30	--	0.14	0.76
JUL 01-AUG 05	3.3	0.76	0.76	0.22	2.8	10	0.18	11
AUG 05-SEP 02	1.4	0.44	0.12	0.44	0.92	6.0	0.24	1.4
SEP 01-OCT 01	2.2	0.68	0.86	2.4	2.1	11	3.49	17

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
NOV 05-DEC 02	0.16	0.015	0.005	4	6.5	0.9	<5	20
DEC 02-JAN 05	0.46	0.015	0.008	38	4.3	4.6	10	<40
APR 14-MAY 07	1.00	0.300	0.215	42	4.6	5.6	8	50
MAY 07-JUN 02	1.00	0.490	3.40	79	4.9	23	10	<40
JUN 02-JUL 01	0.45	0.120	0.039	22	6.1	2.2	6	100
JUL 01-AUG 05	N0.51	1.45	0.258	45	5.1	9.8	6	90
AUG 05-SEP 02	0.35	0.250	0.077	23	6.0	2.0	<5	<40
SEP 01-OCT 01	0.68	2.05	1.85	99	7.0	5.3	11	50

431021077315902 At Empire Boulevard, Rochester, N.Y.--Continued

CHEMICAL QUALITY OF PRECIPITATION, MONTHLY WETFALL

WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	CALCIUM DIS-SOLVED (mg/L as Ca)	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)
OCT 01-NOV 05	0.74	0.09	0.07	0.32	0.80	4.0	0.55	0.64
NOV 05-DEC 02	0.60	0.15	0.20	<0.10	0.30	5.0	0.60	0.64
DEC 02-JAN 05	0.63	0.17	1.0	0.09	1.4	2.0	0.28	0.34
APR 14-MAY 07	1.8	0.47	0.38	0.16	0.93	9.0	0.79	1.2
MAY 07-JUN 02	0.62	0.13	0.13	0.04	0.40	--	<0.01	0.93
JUN 02-JUL 01	0.61	0.15	0.10	0.08	0.40	--	0.78	0.96
JUL 01-AUG 05	0.88	0.34	0.22	0.22	0.40	12	0.67	0.92
AUG 05-SEP 02	0.75	0.18	0.12	0.13	0.51	12	1.10	1.2
SEP 01-OCT 01	0.30	0.07	0.19	--	0.32	4.3	0.39	0.49

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
OCT 01-NOV 05	0.60	0.075	0.047	730	4.7	3.3	<5	<40
NOV 05-DEC 02	0.97	0.020	0.011	53	4.2	8.1	<5	30
DEC 02-JAN 05	0.34	0.025	0.006	17	6.1	0.9	8	<40
APR 14-MAY 07	1.70	0.050	0.015	78	3.9	11	7	60
MAY 07-JUN 02	0.68	0.030	0.003	36	4.0	5.8	25	<40
JUN 02-JUL 01	0.94	0.025	<0.002	78	3.8	11	5	90
JUL 01-AUG 05	N0.91	0.015	<0.002	104	3.8	14	<5	<40
AUG 05-SEP 02	1.40	0.020	0.006	113	3.7	15	<5	50
SEP 01-OCT 01	0.48	0.010	0.003	38	4.2	5.9	6	40

431248077564601 At State University of New York at Brockport, N.Y.

LOCATION.--Lat 43°12'48", long 77°56'46", Monroe County, Hydrologic Unit 04130001, at SUNY Brockport on roof of Lennon Hall, on Monroe Ave.,0.35 mi west of New York State Highway 19 and 31 .

PERIOD OF RECORD.-- June 1990 to current year (monthly dustfall).
June 1990 to current year (monthly wetfall).
June 1990 to current year (monthly composite).

INSTRUMENTATION.--The composite sample collector is a straight-sided polyethlyene funnel approximately 6.5 inch in diameter that drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethlyene funnel is heated during the cold-weather season to aid in complete collection of snow. The receiving bottle is enclosed in an insulated box.

Wet/dry precipitation collector used for wetfall and dustfall samples. An automatic sensor detects precipitation and activates a motor that removes the cover from the wetfall-collection vessel and covers the dustfall-collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethlyene and have a collection diameter of 11.26 inch and a capacity of about 3.4 gallons.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

REMARKS.--Analytical results of samples from two sample collectors at this site (SUNY Brockport East and SUNY Brockport West) were combined to produce a complete record of chemical quality of precipitation.

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY DUSTFALL

PERIOD JUNE 1990 TO SEPTEMBER 1990

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)
JUN 01-30	2.9	0.76	0.13	0.36	0.40	9.0	0.21	1.4
JUL 01-31	2.8	0.41	0.17	0.38	0.80	6.0	0.22	1.6
AUG 01-31	2.0	0.51	0.16	0.10	0.50	10	<0.01	1.1
AUG 31-OCT 01	2.5	0.54	0.11	0.13	0.60	10	0.35	1.2

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
JUN 01-30	0.76	0.220	0.058	34	6.0	4.4	8	--
JUL 01-JUL 31	0.89	0.230	0.077	28	6.3	4.5	13	40
AUG 01-31	0.74	0.160	0.110	27	5.9	2.4	<5	40
AUG 31-OCT 01	0.98	0.110	0.012	32	6.0	2.8	6	50

431248077564601 At State University of New York at Brockport, N.Y.

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY DUSTFALL

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 01-NOV 01	1.8	0.38	0.20	0.11	0.62	<10	0.18	0.75
NOV 02-DEC 04	2.7	0.41	0.52	0.09	1.1	<10	0.38	0.92
DEC 04-JAN 02	2.8	0.46	1.4	0.06	1.9	<10	0.20	0.62
JAN 01-FEB 01	2.0	0.45	2.8	0.12	3.9	1.0	0.49	0.88
FEB 01-MAR 01	3.3	0.53	2.7	0.09	3.1	7.0	0.50	1.0
MAR 01-APR 03	3.5	0.49	0.81	0.10	1.6	5.0	0.29	0.92
APR 01-MAY 02	3.2	0.64	0.52	0.37	1.1	<10	0.15	1.5
MAY 02-JUN 05	3.0	0.51	0.50	0.62	0.85	<10	0.12	0.05
JUL 01-31	0.90	0.11	<0.01	0.02	0.21	<10	0.04	0.33
JUL 31-SEP 03	3.1	0.51	0.12	0.12	0.50	10	0.08	1.1
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
NOV 01-DEC 02	2.8	0.61	0.57	0.07	1.3	<10	0.53	1.5
DEC 01-JAN 01	3.0	0.88	1.8	0.09	2.9	<10	0.60	1.3
JAN 01-31	1.9	0.48	1.9	0.04	1.3	<10	0.52	0.84
JAN 31-FEB 29	3.6	0.88	3.2	0.04	4.4	<10	0.98	1.2
FEB 29-MAR 31	4.8	0.90	4.1	0.08	5.4	<10	0.55	1.4
MAR 31-MAY 05	4.5	0.75	1.2	0.20	1.0	8.0	0.20	1.6
MAY 05-JUN 01	3.4	1.3	0.69	0.88	0.60	5.0	0.38	2.6
JUN 01-JUL 01	2.9	0.42	0.28	0.43	1.1	3.0	0.12	1.8
JUL 01-27	1.9	0.44	0.08	0.11	0.50	10	0.22	1.4
JUL 28-SEP 01	2.7	0.50	0.11	0.16	0.30	<10	0.12	0.76
SEP 01-OCT 01	2.9	0.35	0.15	0.12	0.60	3.0	0.12	0.80

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 01-NOV 01	0.76	0.060	0.008	26	6.4	1.1	8	120
NOV 02-DEC 04	0.90	0.045	0.007	30	6.5	3.2	13	40
DEC 04-JAN 02	0.59	0.025	0.005	32	6.3	1.1	12	40
JAN 01-FEB 01	1.40	0.020	0.002	44	5.9	1.6	20	40
FEB 01-MAR 01	1.40	0.025	0.003	50	6.7	1.1	5	50
MAR 01-APR 03	1.20	0.055	0.005	37	6.5	2.2	24	40
APR 01-MAY 02	1.10	0.130	0.023	40	6.4	1.9	6	50
MAY 02-JUN 05	1.20	0.260	0.080	33	6.1	3.7	8	50
JUL 01-31	0.25	0.030	0.011	11	6.5	0.6	<5	<40
JUL 31-SEP 03	0.72	0.070	0.002	24	6.3	0.6	12	40
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
NOV 01-DEC 02	1.10	0.060	0.004	27	5.8	2.7	11	<40
DEC 01-JAN 01	1.60	0.035	0.004	48	7.2	0.9	21	70
JAN 01-31	1.20	0.035	0.007	36	6.0	2.4	9	50
JAN 31-FEB 29	1.80	0.030	<0.002	58	6.1	2.0	29	80
FEB 29-MAR 31	1.80	0.040	0.002	65	6.6	1.2	31	70
MAR 31-MAY 05	1.70	0.180	0.029	46	6.6	0.6	11	70
MAY 05-JUN 01	1.10	0.430	0.088	31	6.3	5.8	23	40
JUN 01-JUL 01	0.89	0.200	0.050	28	6.5	1.2	13	60
JUL 01-27	0.46	0.095	0.006	21	5.9	3.4	12	<40
JUL 28-SEP 01	0.70	0.065	0.016	23	6.1	1.2	6	<40
SEP 01-OCT 01	0.67	0.055	0.009	23	6.4	1.8	5	40

431248077564601 At State University of New York at Brockport, N.Y.

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY DUSTFALL

WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N)
OCT 01-NOV 02	2.7	0.50	0.28	0.15	0.80	7.0	0.49	1.5
NOV 05-DEC 01	2.7	0.75	0.40	0.10	0.60	9.0	0.85	2.9
DEC 01-JAN 04	2.0	0.50	1.3	0.12	1.6	6.0	0.26	1.2
JAN 04-FEB 01	1.9	0.65	2.7	0.07	5.4	7.0	0.76	1.5
FEB 01-MAR 03	1.6	0.44	2.7	0.10	2.1	5.0	0.34	0.66
MAR 03-APR 01	3.3	0.95	2.5	0.07	3.0	11	0.49	1.1
APR 01-MAY 03	8.6	1.2	0.94	0.46	1.4	14	0.43	<0.01
MAY 03-JUN 01	3.9	0.40	0.32	0.32	0.40	--	<0.01	1.8
JUN 01-29	3.5	0.32	0.24	0.41	0.40	--	0.04	0.95
JUN 29-AUG 05	3.4	0.57	0.73	0.32	0.30	5.0	0.08	0.69
AUG 05-SEP 02	2.6	0.35	0.14	0.12	0.51	--	0.04	0.80
SEP 01-OCT 01	0.0	0.36	0.29	0.09	0.74	3.3	0.08	0.41

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
OCT 01-NOV 02	1.20	0.110	0.004	33	6.3	2.2	5	<40
NOV 05-DEC 01	1.30	0.045	0.004	39	5.5	3.5	6	50
DEC 01-JAN 04	0.73	0.040	0.003	29	5.9	3.2	14	50
JAN 04-FEB 01	1.50	0.030	0.003	44	6.2	3.1	18	50
FEB 01-MAR 03	1.40	0.015	0.006	40	5.3	1.1	21	50
MAR 03-APR 01	1.80	0.040	0.005	53	6.2	1.6	14	<40
APR 01-MAY 03	2.40	0.220	0.010	78	6.6	4.6	25	120
MAY 03-JUN 01	1.10	0.230	0.030	39	6.6	3.3	25	<40
JUN 01-29	0.96	0.170	0.052	32	6.8	2.2	8	100
JUN 29-AUG 05	0.69	0.055	0.018	25	6.8	0.9	5	<40
AUG 05-SEP 02	<0.01	0.120	0.018	30	7.3	0.8	<5	70
SEP 01-OCT 01	0.71	0.050	0.003	23	6.6	1.7	<5	60

431248077564601 At State University of New York at Brockport, N.Y.

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY WETFALL

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)
PERIOD JUNE 1990 TO SEPTEMBER 1990								
JUN 01-30	0.12	<0.01	0.01	0.01	<0.20	<5.0	0.30	0.41
JUL 01-JUL 31	0.32	0.05	0.06	0.03	0.30	6.0	0.31	0.53
AUG 01-31	0.14	0.02	0.02	0.02	0.50	10	<0.01	0.70
AUG 31-OCT 01	0.21	0.04	0.03	0.02	0.40	9.0	0.50	0.52
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 01-NOV 01	0.21	0.04	0.07	0.03	<0.20	<10	0.22	0.41
NOV 01-30	0.26	0.04	0.08	0.03	0.40	<10	0.37	0.96
DEC 04-JAN 02	0.11	0.04	0.10	0.60	0.60	<10	0.14	0.30
JAN 01-FEB 01	0.56	0.08	0.28	0.02	1.2	<1.0	0.16	0.19
FEB 01-MAR 01	0.52	0.12	0.44	0.03	0.50	4.0	0.28	0.45
MAR 01-APR 03	0.25	0.03	0.08	0.04	0.29	2.0	0.21	0.32
APR 01-MAY 02	0.28	0.06	0.07	0.03	0.43	<10	0.24	1.1
MAY 02-JUN 05	0.31	0.06	0.03	0.04	0.41	<10	0.49	<0.04
JUL 01-31	0.31	0.04	<0.01	<0.01	<0.20	<10	0.48	0.78
JUL 31-SEP 03	0.30	0.04	0.16	0.04	0.40	<10	0.41	0.48

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
PERIOD JUNE 1990 TO SEPTEMBER 1990								
JUN 01-30	0.40	<0.005	<0.002	34	4.2	6.0	5	--
JUL 01-JUL 31	0.62	0.010	0.005	42	4.1	6.7	9	<40
AUG 01-31	0.76	<0.005	<0.002	76	3.8	11	<5	<40
AUG 31-OCT 01	0.66	0.005	0.003	38	4.1	5.8	<5	<40
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 01-NOV 01	0.60	<0.005	<0.002	37	4.1	5.9	<5	<40
NOV 01-30	0.60	0.005	0.002	33	4.2	5.8	<5	<40
DEC 04-JAN 02	0.32	0.020	0.018	19	4.4	3.4	<5	<40
JAN 01-FEB 01	0.56	0.005	0.003	19	4.5	3.3	8	<40
FEB 01-MAR 01	0.68	0.005	0.006	33	4.2	5.0	<5	<40
MAR 01-APR 03	0.36	0.005	0.002	19	4.6	3.8	<5	<40
APR 01-MAY 02	0.46	0.010	<0.002	27	4.4	4.5	6	<40
MAY 02-JUN 05	0.77	0.020	<0.002	56	4.0	8.4	6	<40
JUL 01-31	0.82	0.013	<0.002	68	3.8	10	<5	<40
JUL 31-SEP 03	0.37	0.005	<0.002	30	4.3	4.6	<5	20

431248077564601 At State University of New York at Brockport, N.Y.

CHEMICAL QUALITY OF PRECIPITATION - MONTHLY WETFALL

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L as Mg)	SODIUM, DIS-SOLVED (mg/L as Na)	POTAS-SIUM, DIS-SOLVED (mg/L as K)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	SULFATE DIS-SOLVED (mg/L as SO_4)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (mg/L as N)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
NOV 01-DEC 02	0.21	<0.15	0.23	0.07	0.90	<10	0.27	0.37
DEC 01-JAN 01	0.13	0.03	0.06	0.04	0.70	<10	0.11	0.15
JAN 01-31	0.38	0.09	0.35	0.05	<0.20	<10	0.21	0.35
JAN 31-FEB 29	0.34	0.68	0.29	--	1.0	<10	0.43	0.62
FEB 29-MAR 31	0.31	0.06	0.08	0.01	0.30	<10	0.14	0.27
MAR 31-MAY 05	0.33	0.04	0.04	0.04	0.0	5.0	0.55	0.67
MAY 05-JUN 01	0.50	0.20	0.49	0.11	0.60	2.0	0.20	0.50
JUN 01-JUL 01	0.42	0.08	0.18	0.16	1.1	4.0	0.50	0.69
JUL 01-27	0.11	0.02	<0.02	0.01	<0.20	10	0.22	0.34
JUL 28-SEP 01	0.17	0.03	0.01	0.06	0.20	<10	0.31	0.32
SEP 01-OCT 01	0.14	<0.03	0.01	<0.05	0.60	2.0	0.14	0.23
WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993								
OCT 01-NOV 02	0.38	0.05	0.08	0.03	0.50	3.0	0.32	0.49
NOV 05-DEC 01	0.10	0.03	<0.10	<0.10	0.20	2.0	0.16	0.40
DEC 01-JAN 04	0.45	0.12	0.64	0.06	0.60	2.0	0.18	0.41
JAN 04-FEB 01	0.22	0.03	0.30	0.04	1.6	2.0	0.18	0.27
FEB 01-MAR 03	0.07	0.01	1.4	0.01	0.20	<2.0	0.08	0.20
MAR 03-APR 01	0.41	0.10	0.31	<0.02	0.40	3.0	0.15	0.37
APR 01-MAY 03	0.22	0.05	0.06	0.04	0.36	4.0	0.24	<0.01
MAY 03-JUN 01	0.95	0.15	0.18	0.14	1.2	--	<0.01	0.78
JUN 01-29	0.39	0.09	0.09	0.13	0.20	--	0.51	0.60
JUL 01-AUG 05	0.50	0.10	0.44	0.10	0.45	5.0	0.31	0.44
AUG 05-SEP 02	0.22	0.04	<0.05	0.02	0.41	4.0	0.32	0.40
SEP 01-OCT 01	<0.01	0.04	0.12	0.04	0.21	1.8	0.26	0.32

DATE	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N)	PHOS-PHORUS TOTAL (mg/L as P)	PHOS-PHORUS ORTHO, DIS-SOLVED (mg/L as P)	SPE-CIFIC CON-DUCT-ANCE (µS/cm)	PH WATER WHOLE LAB (STAND-ARD UNITS)	ACIDITY (mg/L as $CaCO_3$)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn)
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992								
NOV 01-DEC 02	0.50	0.005	0.002	26	4.4	5.3	6	<40
DEC 01-JAN 01	0.28	<0.005	0.003	14	5.4	1.3	<5	<40
JAN 01-31	0.41	<0.005	0.004	20	4.8	3.3	6	<40
JAN 31-FEB 29	1.00	0.005	<0.002	49	4.1	8.5	5	<40
FEB 29-MAR 31	0.36	0.005	0.003	20	4.6	3.4	11	<40
MAR 31-MAY 05	0.64	0.010	<0.002	36	4.4	5.2	<5	40
MAY 05-JUN 01	0.31	0.005	0.002	17	4.5	4.6	11	<20
JUN 01-JUL 01	0.88	0.010	0.002	45	4.0	7.7	5	50
JUL 01-27	0.53	<0.005	<0.002	48	4.0	6.9	<5	<40
JUL 28-SEP 01	0.44	0.005	<0.002	41	4.1	6.9	<5	<40
SEP 01-OCT 01	0.26	<0.005	<0.002	22	4.4	3.9	<5	<40
WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991								
OCT 01-NOV 02	0.49	0.010	<0.002	27	4.5	4.4	10	<40
NOV 05-DEC 01	0.46	0.005	0.002	22	4.9	3.9	<5	20
DEC 01-JAN 04	0.52	0.015	0.005	19	4.8	4.3	8	<40
JAN 04-FEB 01	0.44	0.005	0.004	21	4.5	4.4	8	<40
FEB 01-MAR 03	0.23	0.005	<0.002	10	5.0	2.2	7	<40
MAR 03-APR 01	0.57	0.010	0.003	27	4.4	4.7	16	<40
APR 01-MAY 03	0.56	0.005	0.003	32	4.2	6.1	<5	<40
MAY 03-JUN 01	0.63	0.026	<0.002	26	4.6	4.7	9	<40
JUN 01-29	0.54	0.010	<0.002	37	4.9	5.7	<5	110
JUL 01-AUG 05	0.57	0.005	<0.002	45	4.1	7.1	<5	<40
AUG 05-SEP 02	0.55	<0.005	<0.002	41	4.2	6.4	<5	<40
SEP 01-OCT 01	0.42	0.010	<0.002	24	4.4	4.2	<5	<40

Precipitation Stations

430315077292801 Near Pittsford, N.Y.

LOCATION.--Lat 43˚03’15", long 77˚29’28", Monroe County, Hydrologic Unit 04140101, at U.S. Geological Survey stream gage on right bank of Irondequoit Creek, 140 ft upstream from bridge on Thornell Road, 0.9 mi south of creek passage under Erie (Barge) Canal and 2.7 mi southeast of Pittsford.

PERIOD OF RECORD.--October 1983 to current year.

EQUIPMENT.--Iowa-type precipitation gage with 8-in diameter receiver funnel mounted on roof of stream gage shelter, and 4-in diameter PVC collector pipe mounted inside of gage shelter. The bottom portion of the receiver funnel is wrapped with heat tape to prevent freezing and to facilitate the rapid melting of snow. A float-driven punched-tape recorder stores 15-min values of water level in the collector pipe. Values recorded are to the nearest 0.01 in.

REMARKS.--Records poor. Because of large amounts of missing or questionable data, no attempt has been made to estimate the missing record

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.00	.00	.00	.00	.01	.24	.27	.00	.00	.31
2	---	.14	.00	.00	.01	.00	.00	.46	.09	.00	.10	.05
3	---	.00	.00	.00	.07	.00	.16	.00	.08	.00	.01	.01
4	---	.00	.00	.00	.00	.21	.15	.00	.00	.00	2.00	.00
5	---	.47	.00	.00	.00	.03	.01	.00	.00	.00	.08	.00
6	---	.01	.00	.00	.01	.00	.01	.02	.00	.00	.00	.00
7	---	.01	.00	.00	.00	.00	.01	1.96	.00	.00	.00	.00
8	---	.05	.00	.00	.01	.00	.00	.03	.00	.00	.00	.00
9	---	.00	.00	.00	.02	.00	.03	.00	.91	.00	.00	.00
10	---	.00	.00	.00	.00	.00	.01	.11	.01	.58	.00	.09
11	---	.00	.07	.00	.00	.00	.00	00	.00	.00	.00	.01
12	---	.00	.10	.00	.00	.00	.00	1.02	.01	.00	.00	.00
13	---	.00	.00	.00	.01	.00	.03	.00	.18	.00	.00	.10
14	---	.01	.04	.01	.00	.00	.00	.38	.13	.03	.00	2.11
15	---	.00	.00	.00	.06	.06	.00	.00	.00	.00	.04	.12
16	---	.01	.00	.00	.00	.00	.00	---	.25	.00	.22	.26
17	---	.02	.00	.00	.00	.00	1.08	---	.27	.01	.00	.52
18	---	.00	.00	.00	.00	.48	.01	---	.08	.00	.00	.00
19	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.77	.00
20	---	.54	.00	.02	.00	.05	.00	.00	.78	.06	.01	.00
21	---	.01	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00
22	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24
23	---	.00	.06	.00	.00	.00	.00	.07	.00	.00	.03	.23
24	---	.00	.19	.00	.00	.02	.00	.00	.00	.00	.00	.04
25	---	.00	.00	.00	.00	.00	.01	.02	.00	.00	.00	.01
26	---	.00	.00	.20	.00	.00	.00	.13	.02	.00	.00	.00
27	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	---	.00	.16	.00	.01	.11	.00	.00	.21	.04	.00	.00
29	.00	.02	.00	.05	---	.00	.07	.00	.00	.00	.08	.00
30	.00	.00	.00	.00	---	.43	.00	.19	.00	.00	.02	.00
31	.01	---	.00	.00	---	.74	---	.41	---	.00	.00	---
TOTAL	---	1.29	0.62	0.28	0.39	2.13	1.59	---	3.29	0.72	3.36	4.10

430315077292801. Near Pittsford, N.Y.-continued

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.22	.00	.02	1.06	.00	.29	---	.00	.09	.00	.00
2	.50	.02	.01	.00	.26	.00	.44	---	.00	.00	.00	.00
3	.03	.22	.00	.00	.00	.00	.24	---	.28	.00	.00	.00
4	.00	.00	.03	.02	.00	.00	2.22	---	.25	.21	.00	.00
5	.00	.00	.00	.00	.27	.01	.16	---	.00	.12	1.97	.65
6	.08	1.04	.18	.00	.30	.00	1.19	---	.02	.05	.16	.00
7	.00	.40	.01	.00	.00	.00	.00	---	.00	.01	.00	.90
8	.00	.01	.00	.00	.00	.00	2.00	---	.34	.00	.01	.00
9	.00	.16	.00	.00	1.19	.05	.00	---	.00	.37	.00	.21
10	.35	.09	.00	.12	.10	.00	.20	---	.00	.01	.00	.00
11	.01	.01	.02	.07	.00	.20	.00	---	.00	.00	.00	.00
12	.01	.01	.00	.01	.00	.13	.00	---	.00	.07	30	.00
13	.02	.00	.01	.00	.03	.00	.00	---	.00	.00	.44	.00
14	.03	.01	.00	.00	.04	.00	.03	---	.00	.01	.00	.00
15	.35	.06	.00	.00	.33	.00	.00	---	.00	.05	.00	.00
16	.00	.47	.03	.05	1.72	.00	.00	---	.00	.00	.01	.00
17	.00	.01	.16	.00	.01	.40	.08	---	.00	.00	.00	.00
18	1.26	.01	.05	.35	.01	.07	.00	---	.27	.00	.00	.00
19	.13	.00	.00	.02	.00	.21	.00	---	.09	.00	.06	.00
20	.73	.45	.00	.00	.00	.08	.18	---	.00	.36	.00	.00
21	.08	.02	.00	.09	.01	.00	.01	---	.13	.00	.00	.00
22	.01	.00	.01	1.03	.48	.00	.00	---	.40	.05	.02	.00
23	.01	.00	.00	.00	1.17	.09	.71	---	.06	.28	.00	.00
24	.00	.00	.02	.04	.14	.01	.00	---	.00	.02	.00	.00
25	.00	.00	.00	.05	.00	.00	---	---	.00	.00	.00	.18
26	.06	.10	.00	.00	.22	.01	---	---	.00	.00	.00	.24
27	.00	.00	.00	.00	.01	.00	---	---	.01	.00	.00	.01
28	.00	.04	.04	.00	.01	.00	---	---	.00	.00	.14	.01
29	.00	.00	.00	.27	---	.00	---	---	.04	.00	.00	.31
30	.00	.07	.05	.49	---	.23	---	---	.25	.00	.00	.42
31	.00	---	1.52	.00	---	.00	---	.00	---	.31	.00	---
TOTAL	3.66	3.42	2.14	2.63	7.36	1.49	---	---	2.14	2.01	3.11	2.93

430315077292801. Near Pittsford, N.Y.-continued

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.00	.00	.03	.03	.03	.17	---	---	---	---	---
2	.00	.00	.00	.00	.00	.49	.02	---	---	---	---	---
3	.00	.00	.52	.09	.00	.28	.00	---	---	---	---	---
4	.69	.00	.29	.00	.00	.90	.00	---	---	---	---	---
5	.04	1.52	.05	.00	.00	.01	.00	---	---	---	---	---
6	.00	.03	.01	.07	.11	.16	.07	---	---	---	---	---
7	.00	.05	.00	2.01	.16	.10	.00	---	---	---	---	---
8	1.05	.02	.00	.00	.00	.00	.26	---	---	---	---	---
9	.67	.18	.00	.01	.00	.00	.38	---	---	---	---	---
10	.18	1.62	.00	.00	.00	.00	.01	---	---	---	---	---
11	1.05	.22	.00	.01	.03	.00	.00	---	---	---	---	---
12	1.11	.32	.00	.20	.02	.00	.00	---	---	---	---	---
13	.70	.06	.18	.08	.00	.00	.00	---	---	---	---	---
14	.00	.00	.00	.33	.20	.00	.21	---	---	---	---	---
15	.00	.00	.04	.02	.00	.06	.48	---	---	---	---	---
16	.01	.07	.40	.30	.01	.00	.00	---	---	---	---	---
17	.00	.07	.03	.07	.00	.00	.00	---	---	---	---	---
18	.51	.01	.66	.00	.10	.16	.00	---	---	---	---	---
19	.04	.00	.01	.01	.08	.03	.07	---	---	---	---	---
20	.00	.00	.00	.00	.01	.00	.46	---	---	---	---	---
21	.01	.00	.09	.00	.00	.00	.97	---	---	---	---	---
22	.24	.29	.07	.04	.00	.08	.51	---	---	---	---	---
23	1.59	.01	.35	.00	.00	.41	.04	---	---	---	---	---
24	.02	.01	.17	.00	.05	.06	.05	---	---	---	---	---
25	.07	.00	.06	.01	.01	.00	---	---	---	---	---	---
26	.00	.00	.00	.00	.00	.00	---	---	---	---	---	---
27	.02	.19	.02	.01	---	.83	---	---	---	---	---	---
28	.18	.00	1.22	.06	.12	.20	---	---	---	---	---	---
29	.04	.00	.14	.00	---	.00	---	---	---	---	---	---
30	.02	.01	2.24	.10	---	.00	---	---	---	---	---	---
31	.00	---	.19	.09	---	.00	---	---	---	---	---	---
TOTAL	8.28	4.68	6.74	3.54	---	3.80	---	---	---	---	---	---

430622077274401 At Fairport, N.Y.

LOCATION.--Lat 43˚06’22", long 77˚27’44", Monroe County, Hydrologic Unit 04140101, at U.S. Geological Survey stream gage on right bank of Thomas Creek, 48 ft upstream from culvert on Foreman Center Road, 0.5 mi northwest of Fairport, and 0.8 mi upstream from the mouth of Thomas Creek.

PERIOD OF RECORD.--October 1983 to current year.

EQUIPMENT.--Iowa-type precipitation gage with 8-in diameter receiver funnel mounted on roof of stream gage shelter, and 4-in diameter PVC collector pipe mounted inside of gage shelter. The bottom portion of the receiver funnel is wrapped with heat tape to prevent freezing and to facilitate the rapid melting of snow. A float-driven punched-tape recorder stores 15-min values of water level in the collector pipe. Values recorded are to the nearest 0.01 in.

REMARKS.--Records poor. Because of large amounts of missing or questionable data, no attempt has been made to estimate the missing record

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	.00	.00	.00	.00	.77	.26	.33	.00	.00	.37
2	---	.27	.00	.00	.00	.00	.03	.47	.10	.00	.11	.04
3	---	.00	.00	.01	.01	.00	.25	.00	.09	.00	.01	.00
4	---	.00	.00	.00	.00	.34	.21	.00	.01	.03	.63	.00
5	---	.34	.00	.07	.14	.26	.01	.01	.02	.00	.25	.00
6	---	.07	.00	.00	.05	.00	.00	.02	.01	.00	.00	.00
7	---	.03	.00	.06	.12	.00	.03	1.04	.00	.00	.00	.00
8	---	.10	.00	.03	.03	.02	.00	.12	.01	.00	.00	.00
9	---	.00	.00	.00	.01	.00	.00	.00	1.03	.00	.00	.00
10	---	.00	.00	.00	.00	.00	.00	.37	.01	.37	.00	.07
11	---	.00	.00	.00	.02	.00	.01	.53	.00	.00	.00	.00
12	---	.00	.07	.00	.01	.00	.01	.11	.09	.00	.00	.00
13	---	.03	.00	.00	.00	.00	.08	.00	.45	.00	.00	.00
14	---	.00	.28	.03	.05	.00	.00	.47	.26	.00	.00	.34
15	---	.00	.07	.00	.13	.09	.06	.02	.01	.00	.01	.83
16	---	.03	.02	.00	.00	.01	.00	.11	.28	.00	.20	.19
17	---	.06	.00	.00	.00	.04	.22	.00	.62	.00	.01	.34
18	---	.00	.01	.00	.03	.39	.00	.00	1.08	.00	.00	.01
19	---	.00	.00	.00	.00	.18	.00	.00	.00	.00	.47	.00
20	---	.59	.00	.09	.00	.00	.00	1.03	1.06	.21	.01	.00
21	---	.04	.00	.00	.39	.17	.00	.00	.01	.00	.00	.00
22	---	.00	.00	.01	.00	.00	.00	.00	.00	.00	.06	.00
23	---	.00	.10	.00	.00	.00	.00	.19	.00	.00	.00	.32
24	---	.00	.23	.00	.00	.13	.01	.03	.00	.00	.01	.01
25	---	.00	.00	.00	.00	.01	.06	.03	.00	.00	.00	.07
26	---	.00	.00	.27	.00	.00	.00	.11	.00	.00	.00	---
27	.00	.02	.01	.01	.06	.00	.00	.00	.00	.00	.00	---
28	.04	.04	.31	.00	.00	.21	.00	.00	.28	.02	.00	---
29	.00	.03	.03	.06	---	.00	.09	.00	.00	.00	.06	---
30	.01	.00	.00	.00	---	.70	.00	.55	.00	.00	.00	.00
31	.00	---	.00	.00	---	.31	---	.38	---	.00	.00	---
TOTAL	---	1.65	1.13	0.64	1.05	2.86	1.84	5.85	5.75	0.63	1.83	---

430622077274401 At Fairport, N.Y. -- continued

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.04	---	---	---	---	---	---	---
2	.42	.00	.00	.00	.19	---	---	---	---	---	---	---
3	.00	.51	.02	.00	.00	---	---	---	---	---	---	---
4	.00	.00	.03	.00	.00	---	---	---	---	---	---	---
5	.00	.01	.05	.00	.00	---	---	---	---	---	---	---
6	.13	.05	.10	.00	.22	---	---	---	---	---	---	---
7	.02	.35	.00	.01	.00	---	---	---	---	---	---	---
8	.00	.01	.00	.00	.00	---	---	---	---	---	---	---
9	.02	.15	.00	.01	.13	---	---	---	---	---	---	---
10	.15	.10	.00	.16	.06	---	---	---	---	---	---	---
11	.01	.04	.00	.06	.00	---	---	---	---	---	---	---
12	.00	.02	.00	.00	.00	---	---	---	---	---	---	---
13	.00	.00	.00	.00	.02	---	---	---	---	---	---	---
14	.23	.04	.00	.00	.06	---	---	---	---	---	---	---
15	.01	.07	.00	.01	.01	---	---	---	---	---	---	---
16	.16	.36	.00	.06	.33	---	---	---	---	---	---	---
17	.62	.00	.00	.03	.00	---	---	---	---	---	---	---
18	.02	.00	.00	.23	.00	---	---	---	---	---	---	---
19	.08	.00	.00	.00	.00	---	---	---	---	---	---	---
20	.50	.54	.00	.00	.00	---	---	---	---	---	---	---
21	.08	.01	.00	.00	---	---	---	---	---	---	---	---
22	.00	.00	.00	.02	---	---	---	---	---	---	---	---
23	.00	.00	.00	.01	---	---	---	---	---	---	---	---
24	.00	.01	.00	.06	---	---	---	---	---	---	---	---
25	.00	.00	.00	.03	---	---	---	---	---	---	---	---
26	.00	.12	.00	.01	---	---	---	---	---	---	---	---
27	.00	.01	.00	.00	---	---	---	---	---	---	---	---
28	.00	.02	.00	.00	---	---	---	---	---	---	---	---
29	.00	.00	.00	.01	---	---	---	---	---	---	---	---
30	.00	.03	.00	.25	---	---	---	---	---	---	---	---
31	.22	---	.00	.27	---	---	---	---	---	---	---	---
TOTAL	2.67	2.45	0.20	1.23	---	---	---	---	---	---	---	---

430850077304801 At Blossom Road, Rochester, N.Y.

LOCATION.--Lat 43˚08’50", long 77˚30’48", Monroe County, Hydrologic Unit 04140101, at U.S. Geological Survey stream gage on right bank of Irondequoit Creek, 120 ft downstream from bridge on Blossom Road, 1.6 mi east of Rochester, 2.5 mi downstream from Allen Creek, and 3.6 mi upstream from Irondequoit Bay.

PERIOD OF RECORD.--October 1983 to current year.

EQUIPMENT.--Iowa-type precipitation gage with 8-in diameter receiver funnel mounted on roof of stream gage shelter, and 4-in diameter PVC collector pipe mounted inside of gage shelter. The bottom portion of the receiver funnel is wrapped with heat tape to prevent freezing and to facilitate the rapid melting of snow. A float-driven punched-tape recorder stores 15-min values of water level in the collector pipe. Values recorded are to the nearest 0.01 in.

REMARKS.--Records poor. Because of large amounts of missing or questionable data, no attempt has been made to estimate the missing record

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	.00	.08	.01	---
2	---	---	---	---	---	---	---	.00	.00	.00	.00	---
3	---	---	---	---	---	---	---	.00	.22	.00	.00	---
4	---	---	---	---	---	---	---	.31	.25	.30	.00	---
5	---	---	---	---	---	---	---	.50	.00	.01	1.43	---
6	---	---	---	---	---	---	---	.17	.00	.00	.07	---
7	---	---	---	---	---	---	---	.08	.00	.00	.00	---
8	---	---	---	---	---	---	---	.01	.27	.00	.00	---
9	---	---	---	---	---	---	---	.00	.00	.32	.00	---
10	---	---	---	---	---	---	---	.14	.00	.00	.00	---
11	---	---	---	---	---	---	---	.01	.00	.00	.00	---
12	---	---	---	---	---	---	---	.08	.00	.02	.64	---
13	---	---	---	---	---	---	---	1.18	.00	.00	.59	---
14	---	---	---	---	---	---	---	.01	.00	.00	.03	---
15	---	---	---	---	---	---	---	.00	.00	.18	.00	---
16	---	---	---	---	---	---	---	.84	.00	.00	.00	---
17	---	---	---	---	---	---	---	.31	.00	.00	.00	---
18	---	---	---	---	---	---	---	.21	.45	.00	.00	---
19	---	---	---	---	---	---	---	.02	.01	.00	.10	---
20	---	---	---	---	---	---	---	.58	.00	.34	.00	.00
21	---	---	---	---	---	---	---	.03	.02	.00	.00	.03
22	---	---	---	---	---	---	---	.01	.50	.07	.00	.11
23	---	---	---	---	---	---	---	.00	.12	.46	.00	.00
24	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	---	.00	.00	.00	.00	.14
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.17
27	---	---	---	---	---	---	---	.03	.06	.00	.00	.00
28	---	---	---	---	---	---	---	.00	.00	.00	.07	.00
29	---	---	---	---	---	---	---	.71	.02	.05	---	.26
30	---	---	---	---	---	---	---	.00	.17	.00	---	.37
31	---	---	---	---	---	---	---	.00	---	.42	---	---
TOTAL	---	---	---	---	---	---	---	5.23	2.09	2.25	---	---

430850077304801 At Blossom Road, Rochester, N.Y. -- continued

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.03	.18	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.76	.00	.15	.00	.00	.00	.00
3	.00	.00	.63	.01	.00	.60	.00	.00	.00	.00	.08	.00
4	.58	.00	.28	.01	.00	1.49	.00	.00	.00	.01	.00	.09
5	.12	.48	.00	.03	.01	.01	.00	.00	.00	.10	.00	.00
6	.00	.06	.01	.00	.09	.27	.09	.26	.00	.10	.00	.00
7	.00	.10	.00	.00	.10	.02	.00	.02	.00	.00	.00	.00
8	.05	.03	.00	.01	.00	.01	.40	.02	.00	.00	.00	.00
9	.51	.13	.00	.00	.00	.00	.19	.03	.00	.00	.01	.00
10	.26	.48	.00	.00	.00	.00	.00	.05	.00	.00	.01	.16
11	.85	.30	.00	.09	.00	.00	.00	.00	.04	.00	.01	.02
12	.13	.01	.00	.39	.00	.00	.00	.00	.02	.01	.02	.00
13	.76	.00	.08	.00	.01	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.15	.00	.13	.00	.00	.00	.56	.00
15	.00	.00	.02	.00	.00	.11	.31	.00	.00	.00	.00	.55
16	.00	.02	.23	.33	.02	.00	.00	.00	.00	.00	.05	.00
17	.00	.05	.01	.01	.00	.00	.00	.00	.00	.00	.11	.00
18	.51	.00	.59	.02	.07	.22	.00	.00	.00	.00	.01	.05
19	.03	.01	.01	.01	.11	.00	.09	.00	.00	.00	.00	.16
20	.00	.00	.00	.00	.01	.00	.31	.02	.00	.00	.24	.19
21	.00	.00	.05	.00	.00	.01	1.83	.00	.00	.00	.01	.01
22	.25	.37	.10	.01	.00	.15	.55	.00	.00	.00	.00	.00
23	.47	.00	.52	.00	.00	.71	.00	.38	.00	.00	.00	.07
24	.00	.00	.23	.00	.02	.09	.01	.00	.00	.00	.00	.15
25	.09	.00	.01	.00	.00	.01	.00	.00	.00	.00	.00	.93
26	.01	.01	.00	.00	.01	.00	.00	.00	.00	.00	.00	.06
27	.00	.12	.00	.01	.00	.59	.00	.00	.00	.00	.00	.00
28	.11	.00	.06	.06	.01	.14	.00	.00	.00	.00	.00	.00
29	.01	.00	.12	.00	---	.00	.00	.00	.03	.00	.00	.00
30	.00	.00	.89	.12	---	.00	.06	.01	.01	.00	.00	.00
31	.00	---	.03	.01	---	.00	---	.00	---	.00	.30	---
TOTAL	4.74	2.17	3.87	1.12	0.61	5.22	4.15	0.94	0.10	0.22	1.41	2.44

430850077304801 At Blossom Road, Rochester, N.Y. -- continued

RAINFALL ACCUMULATED - DAILY SUM VALUES (INCHES)

WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	.00	.00	.00	.00	.02	.08	.07	.38	.00	.12	.00
2	.02	.00	.02	.00	.00	.00	.00	.62	.00	.00	.00	.00
3	.03	.00	.00	.00	.00	.00	.00	.00	.00	.30	1.01	.52
4	.07	.00	.01	.09	.00	.00	.00	.01	.00	.03	.14	.00
5	.16	.00	.00	.05	.00	.00	.00	.00	.18	.11	.00	.00
6	.02	.00	.09	.00	.00	.00	.00	.00	.15	.01	.00	.00
7	.00	.09	.00	.00	.05	.34	.01	.00	.17	.00	.00	.02
8	.00	.02	.00	.00	.03	.00	.00	.00	.00	.36	.43	.00
9	.00	.00	.08	.04	.04	.07	.02	.07	.00	e.17	.23	.00
10	.47	.17	.00	.00	.06	.03	.01	.02	.00	e.06	.11	.00
11	.00	.54	.00	.01	.00	.08	.03	.00	.00	e.00	.02	.00
12	.15	.04	.05	.01	.05	.09	.00	.00	.00	e.55	.00	.00
13	.07	.00	.01	.02	.08	.00	.00	.00	.00	e.15	.23	.00
14	.01	.01	.03	.16	.01	.00	.00	.00	.00	e.80	.00	.00
15	.33	.21	.03	.00	.15	.00	.00	.00	.00	e1.20	.02	.00
16	.01	.01	.06	.01	.00	.00	.08	.00	.00	.00	.19	.00
17	.00	.00	.01	.02	.00	.00	.64	.19	.00	.06	.01	.00
18	.00	.00	.01	.00	.07	.00	.12	.14	.00	.00	.00	.04
19	.00	.01	.00	.01	.01	.00	.00	.00	.27	.00	.10	.00
20	.00	.13	.00	.35	.01	.00	.00	.00	.00	.04	.00	.00
21	.00	.03	.03	.00	.06	.00	.35	.00	.00	.14	.00	.50
22	.00	.00	.00	.00	.07	.03	.08	.00	.02	.00	.00	.78
23	.00	.00	.00	.28	.08	.04	.01	.00	.00	.53	.00	.00
24	.00	.17	.01	.00	.06	.00	.48	.18	.42	.00	.00	.00
25	.00	.01	.01	.01	.00	.00	.04	.00	.00	.00	.34	.00
26	.00	.01	.00	.00	.00	.15	.05	.33	.00	.16	.00	.41
27	.04	.00	.00	.00	.01	.62	.00	.12	.21	.00	1.02	.28
28	.01	.29	.00	.00	.13	.00	.00	.01	.00	.00	.72	.00
29	.00	.26	.73	.00	.01	.00	.00	.00	.01	.20	.01	.00
30	.00	.00	.01	.00	---	.01	.08	.33	.00	.00	.02	.00
31	.00	---	.00	.00	---	.00	---	.32	---	.67	.01	---
TOTAL	1.63	2.00	1.19	1.06	0.98	1.48	2.08	2.41	1.81	5.54	4.73	2.55