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# 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*

U.S. GEOLOGICAL SURVEY
Open-File Report 97-587

Prepared in cooperation with the
Monroe County Department of Health

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## Part 1. Water-Resources Data

By DONALD A. SHERWOOD

Prepared in cooperation with the
Monroe County Department of Health

U.S. GEOLOGICAL SURVEY
OPEN-FILE REPORT REPORT 97-587

Ithaca, New York
1997

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

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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<br>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) groundwater 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

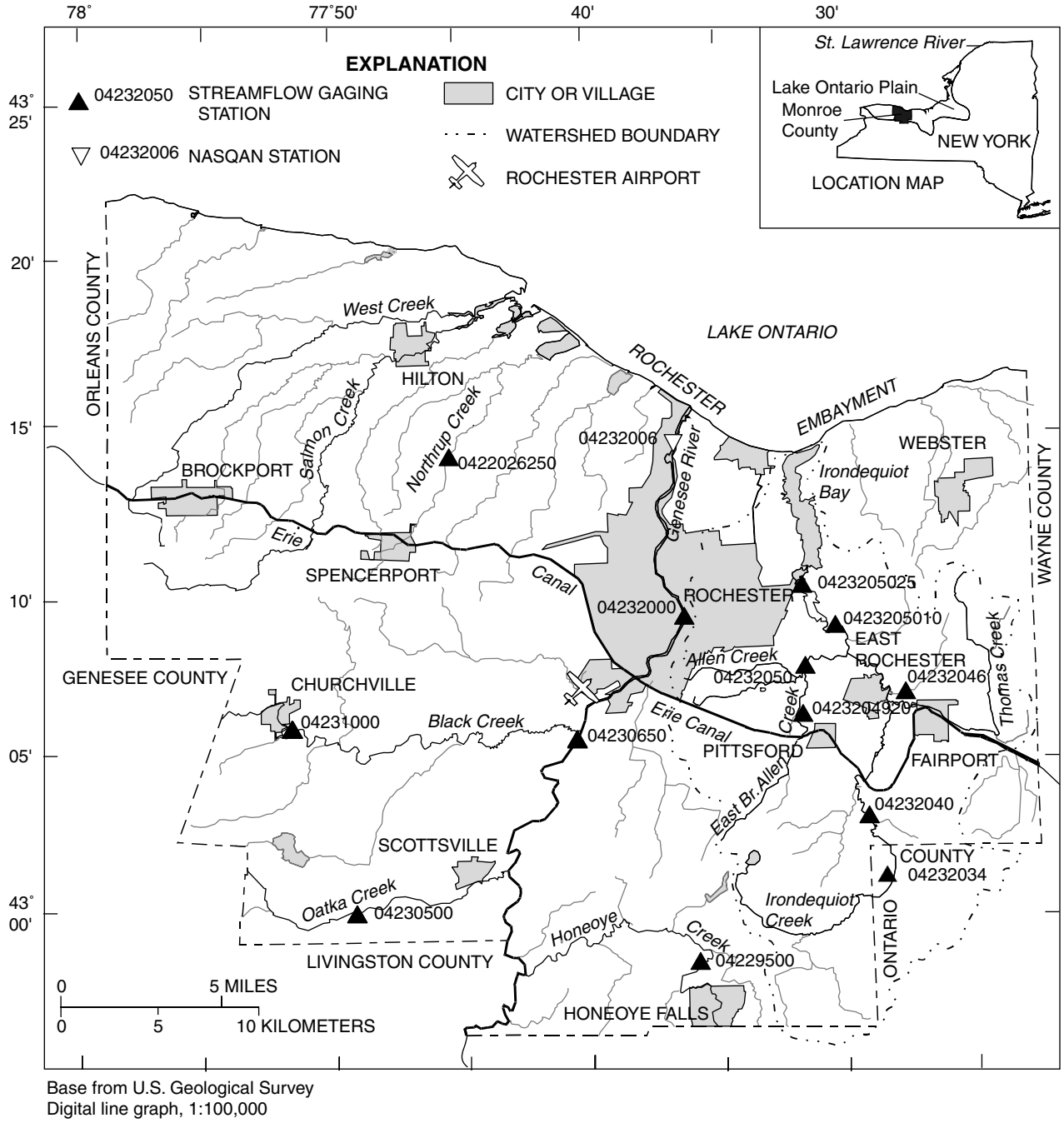
Monroe County, in the Lake Ontario Plain region of western New York (fig. 1), has a total area of about 673 $mi^2$ (Heffner and Goodman, 1973). Rochester, the county seat and largest city, is in the northern part of the county.

### 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



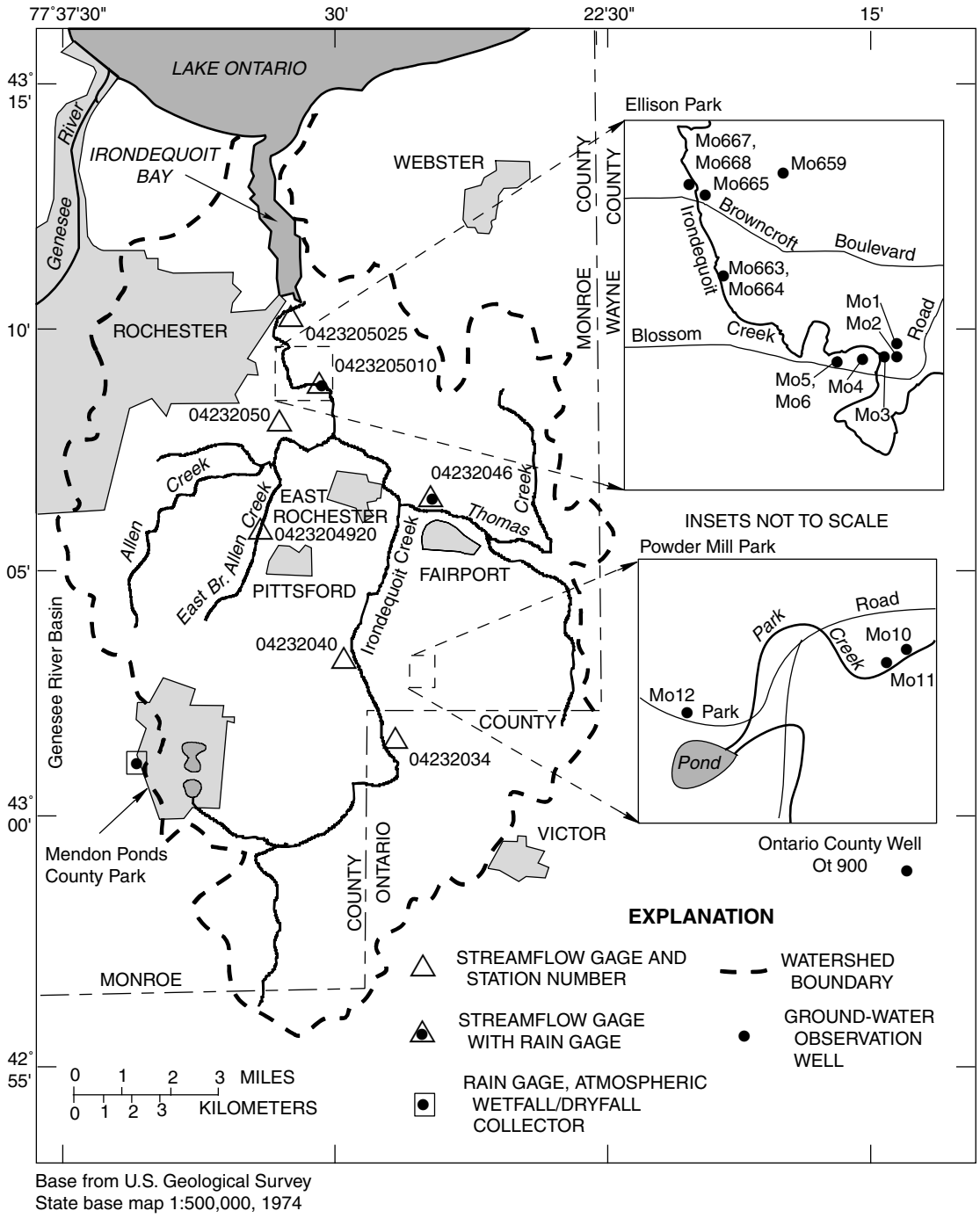

Base from U.S. Geological Survey
Digital line graph, 1:100,000

**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.




Base from U.S. Geological Survey
State base map 1:500,000, 1974

**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.

**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 | | |

### 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).

*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).

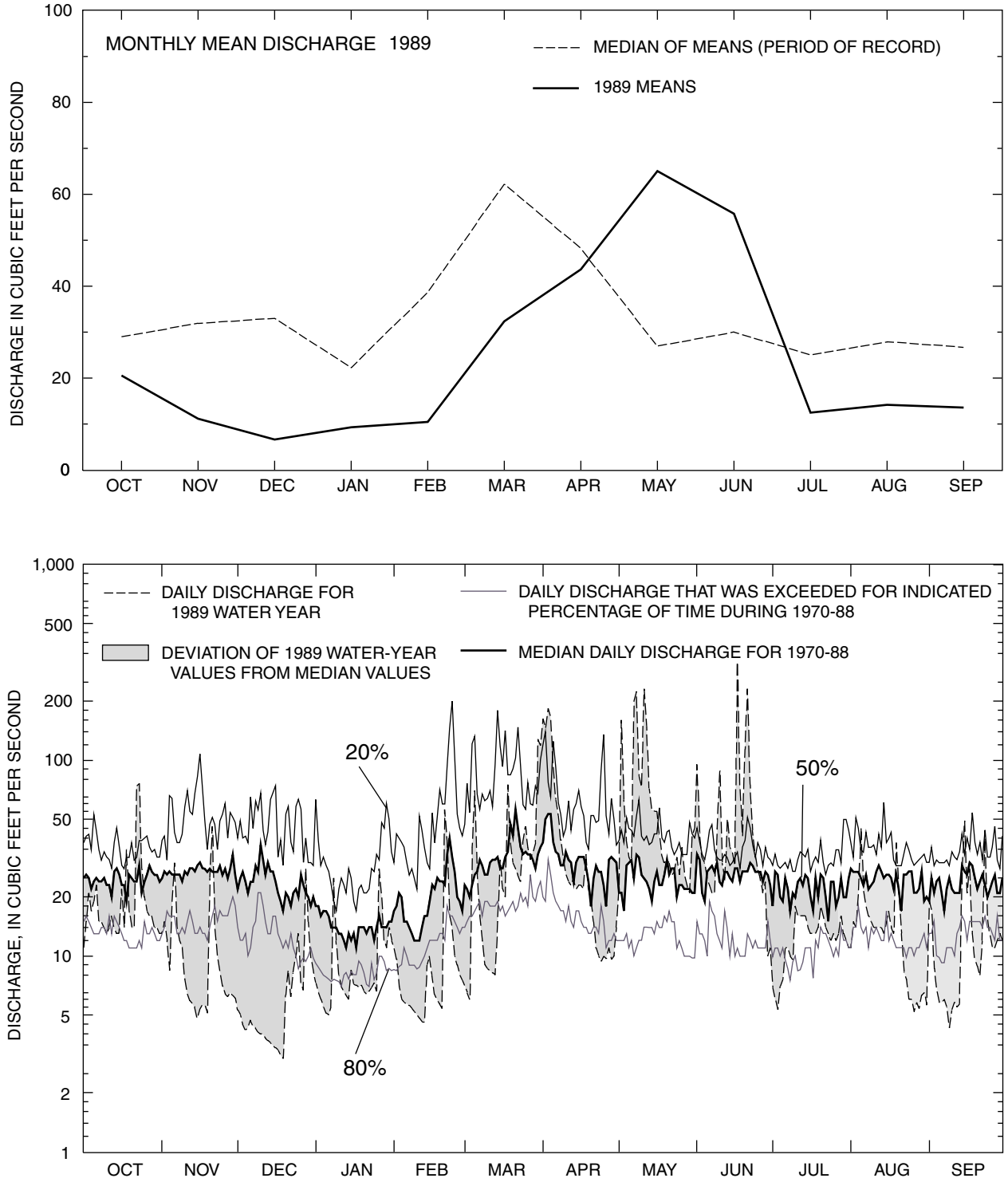



**Figure 3A.** Hydrographs for Allen Creek near Rochester, water year 1989: above monthly mean discharge during water year 1989 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water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

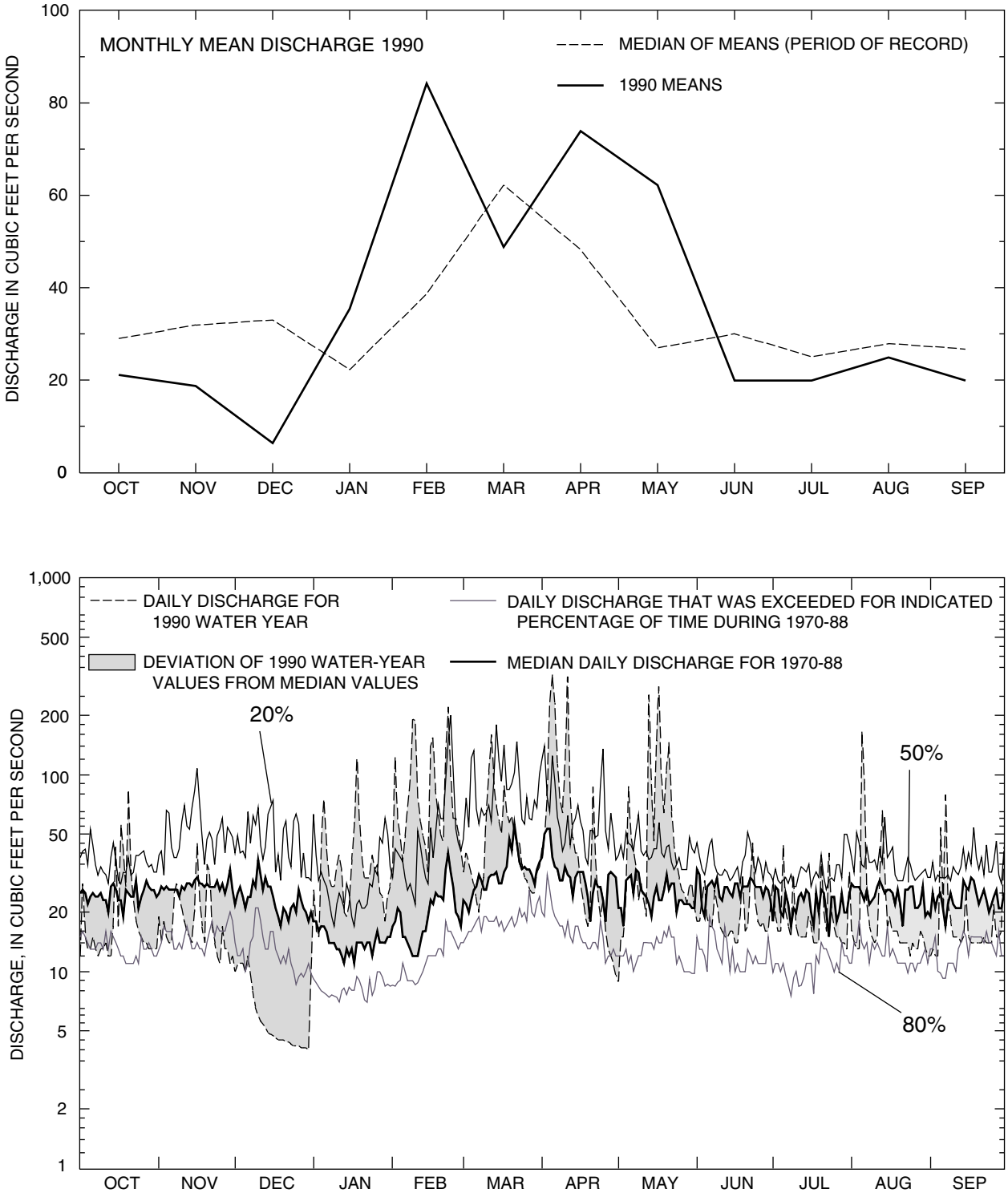



**Figure 3B**. Hydrographs for Allen Creek near Rochester, water year 1990: above monthly mean discharge during water year 1989 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water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

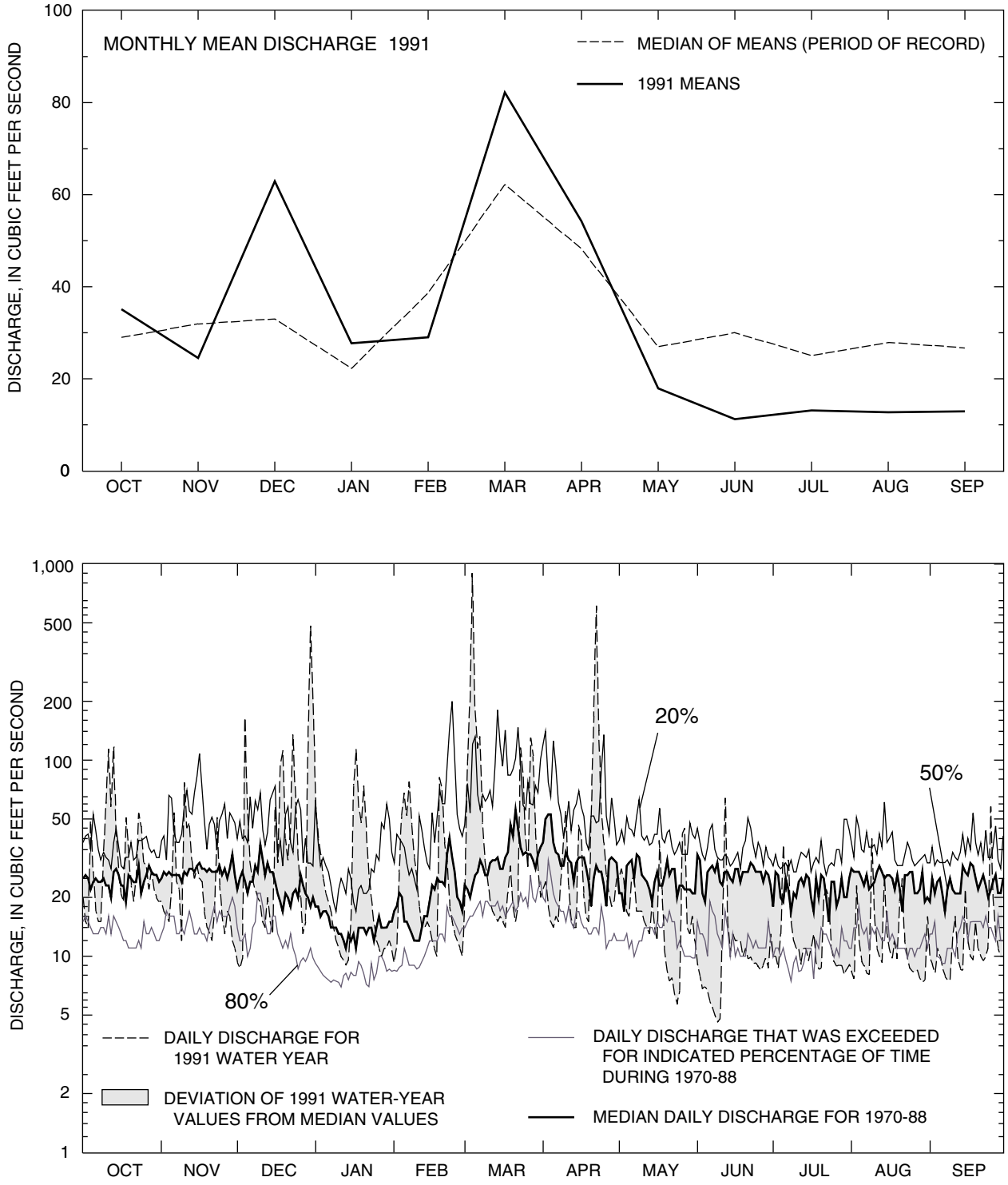



**Figure 3C.** Hydrographs for Allen Creek near Rochester, water year 1991: above monthly mean discharge during water year 1991 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water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

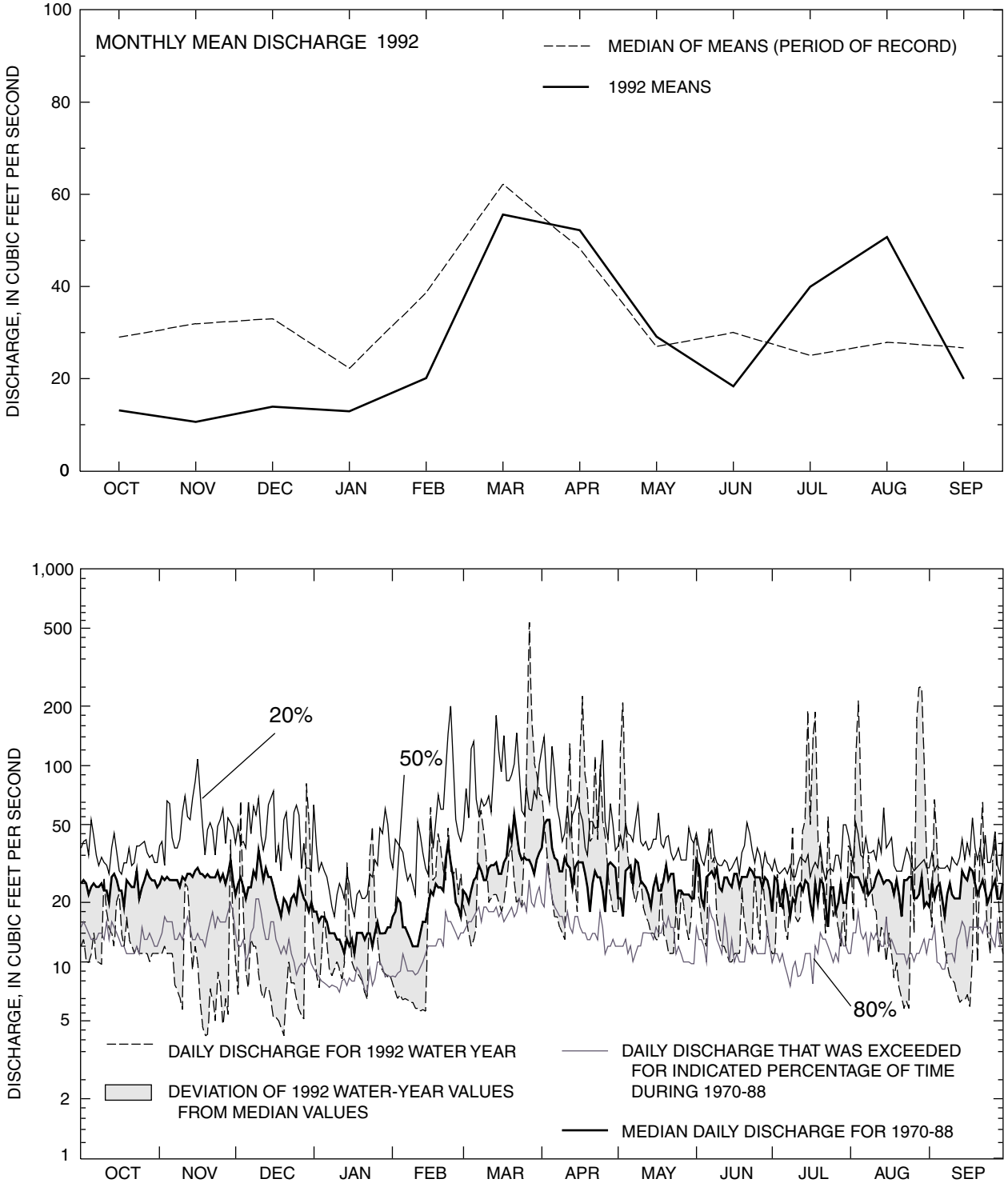



**Figure 3D.** Hydrographs for Allen Creek near Rochester, water year 1992: above monthly mean discharge during water year 1992 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80-percent discharges for 1970-88 period of record and daily discharges during water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

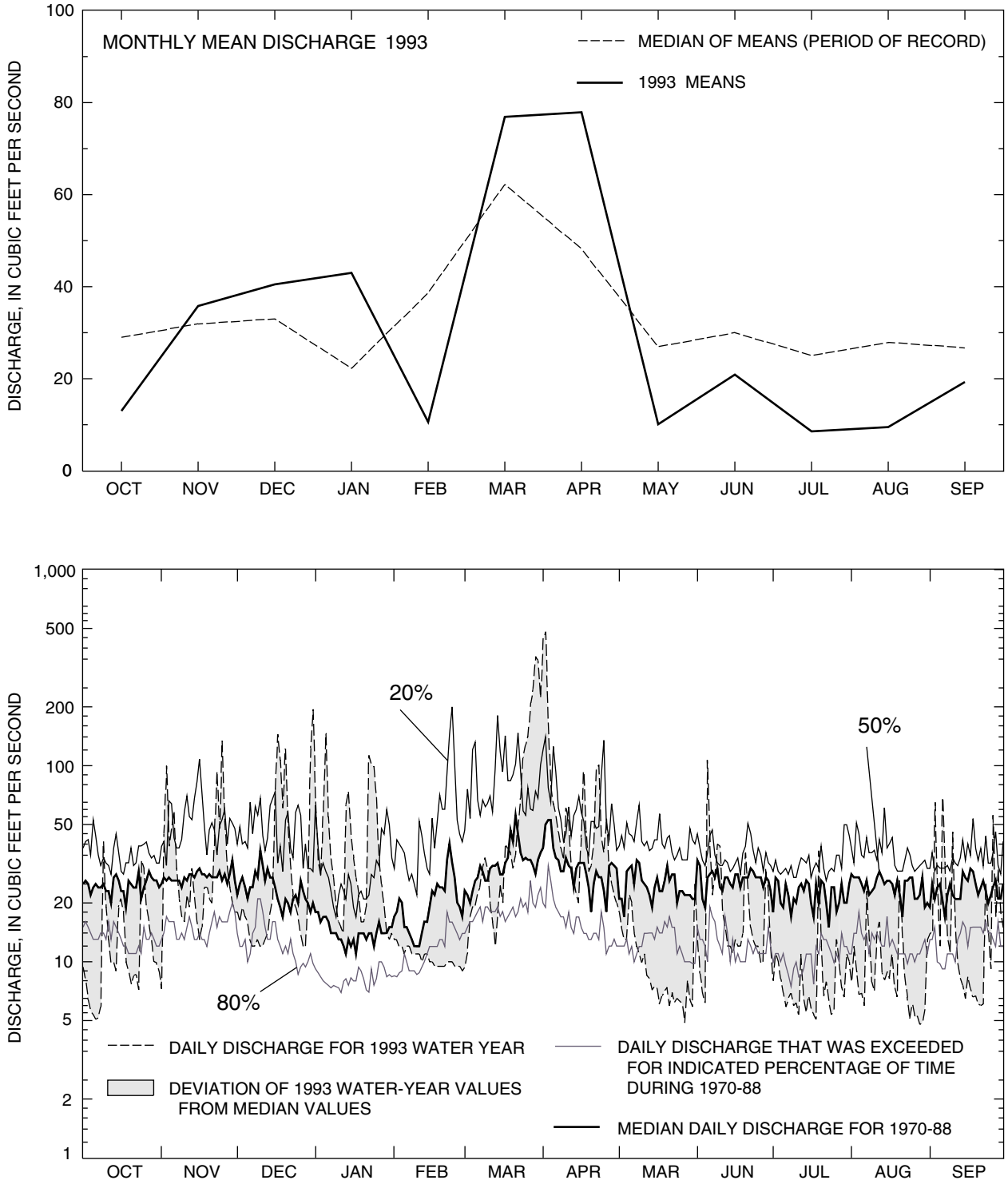



**Figure 3E**. Hydrographs for Allen Creek near Rochester, water year 1993: above monthly mean discharge during water year 1993 with median of monthly mean discharges for period of record, Below, median, 20-percent, and 80 percent discharges for 1970-88 period of record and daily discharges during water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

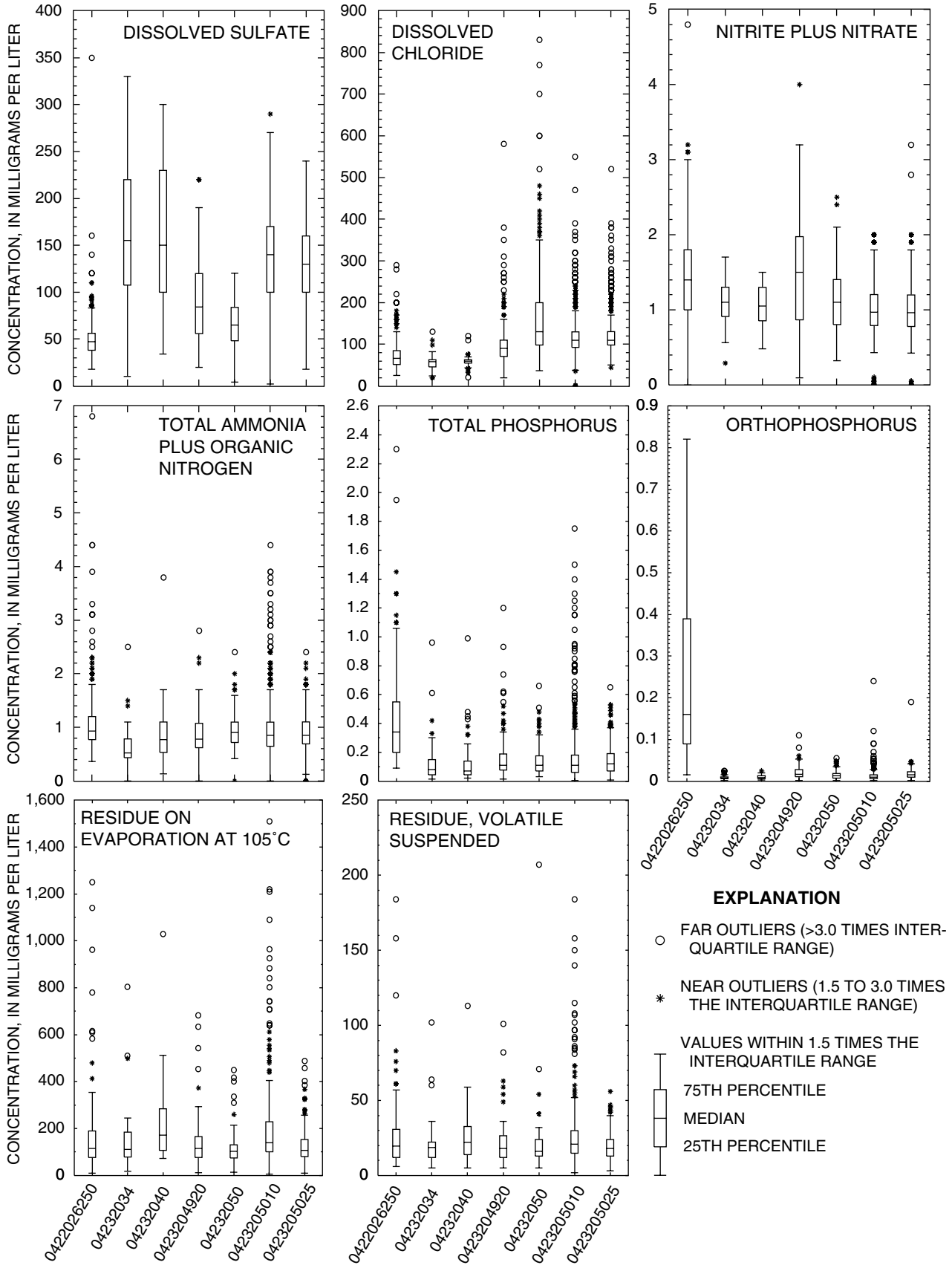



**Figure 4.** Concentrations of eight constituents in samples from Northrup Creek at North Greece, and at six sites in the Irondequoit Creek basin, 1989-93. (Locations are shown in fig. 1.)

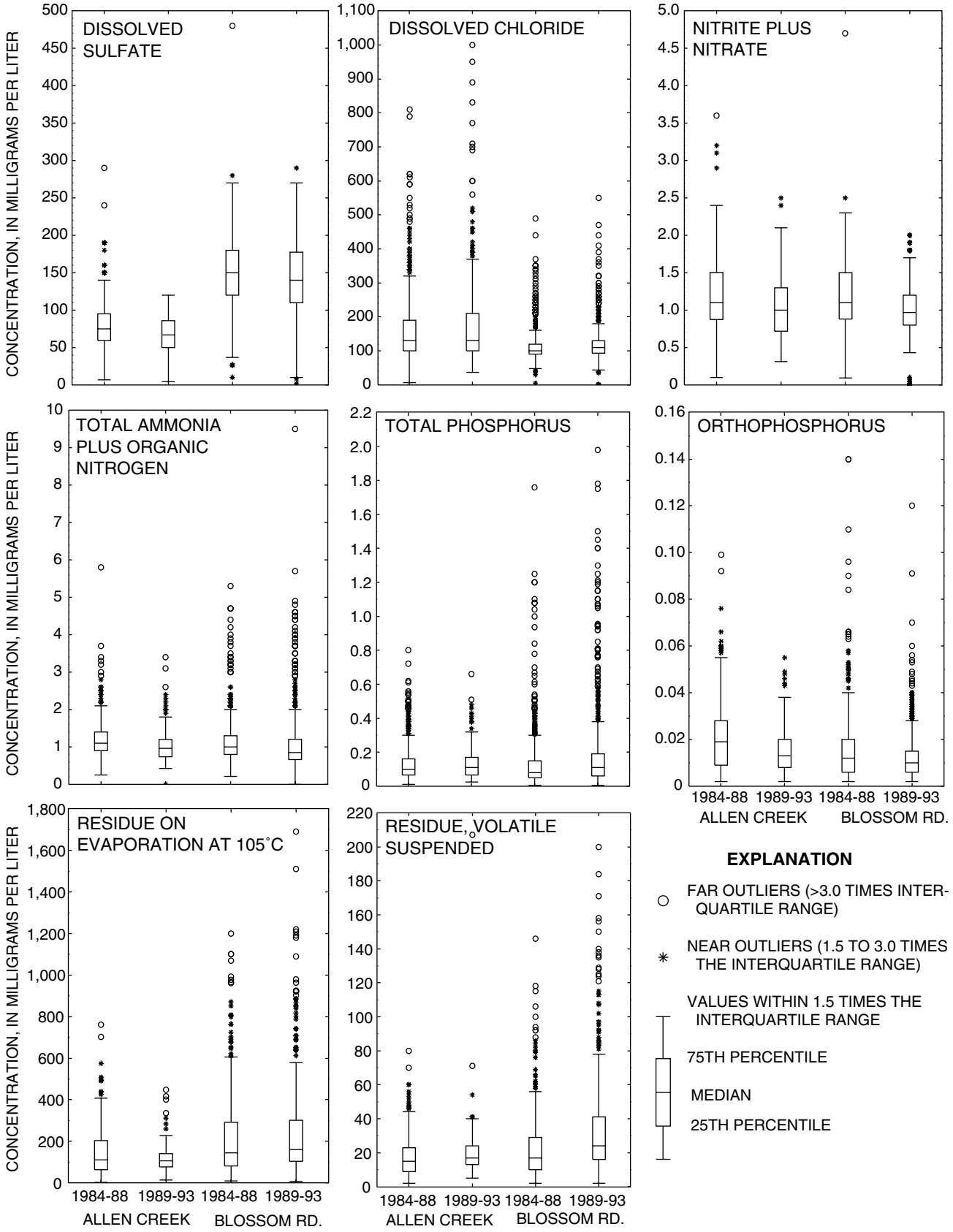



**Figure 5.** Concentrations of eight constituents in samples from Allen Creek near Rochester (04232050) and Irondequoit Creek at Blossom road (0423205010), water years 1984-88 and 1989-93.

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.

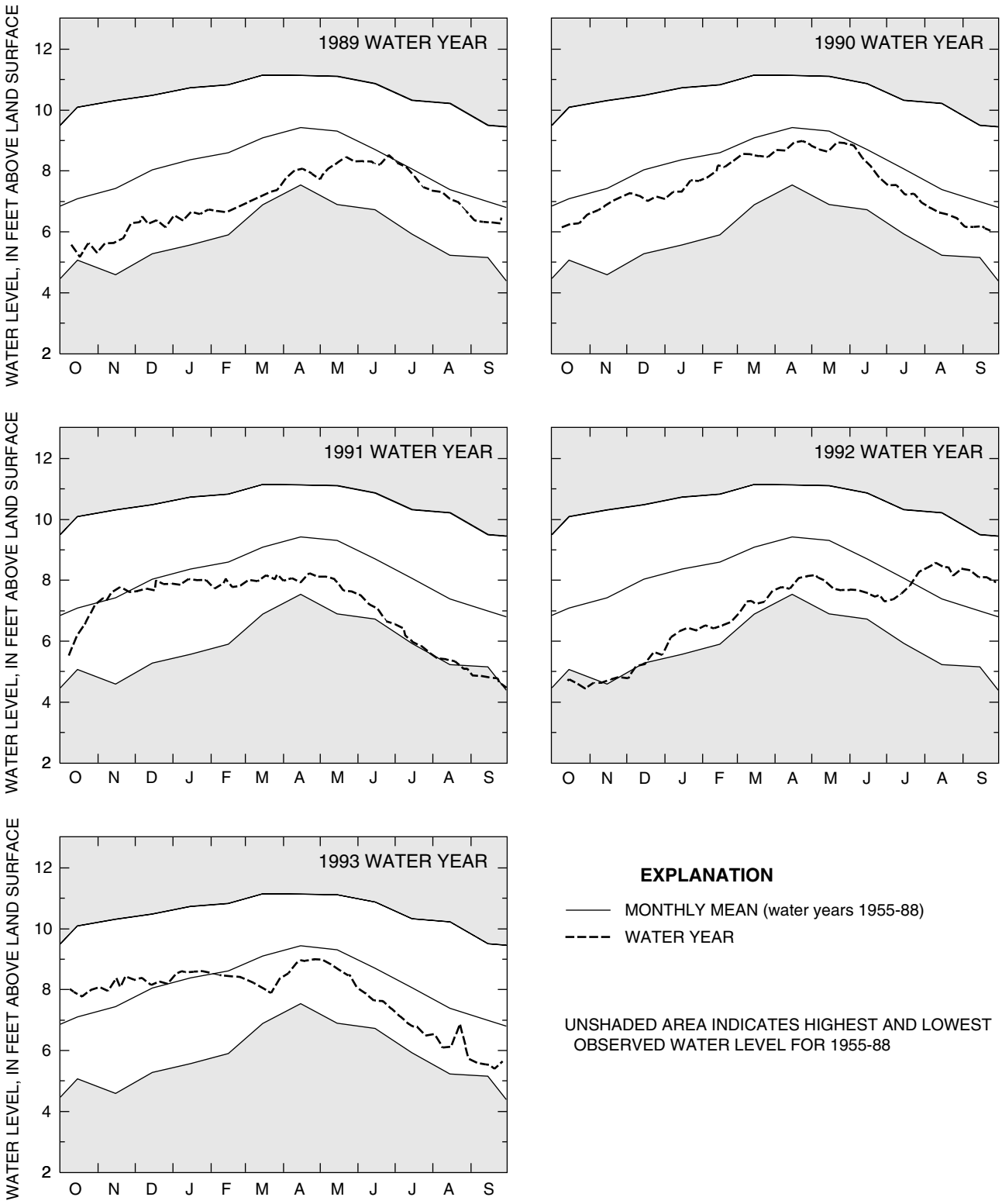



**Figure 6.** Observed water levels for water years 1989-93 at well Ot 900 in northern Ontario County with monthly mean, maximum, and minimum water level throughout period of record, 1955-88. (Location is shown on fig. 2.)

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-

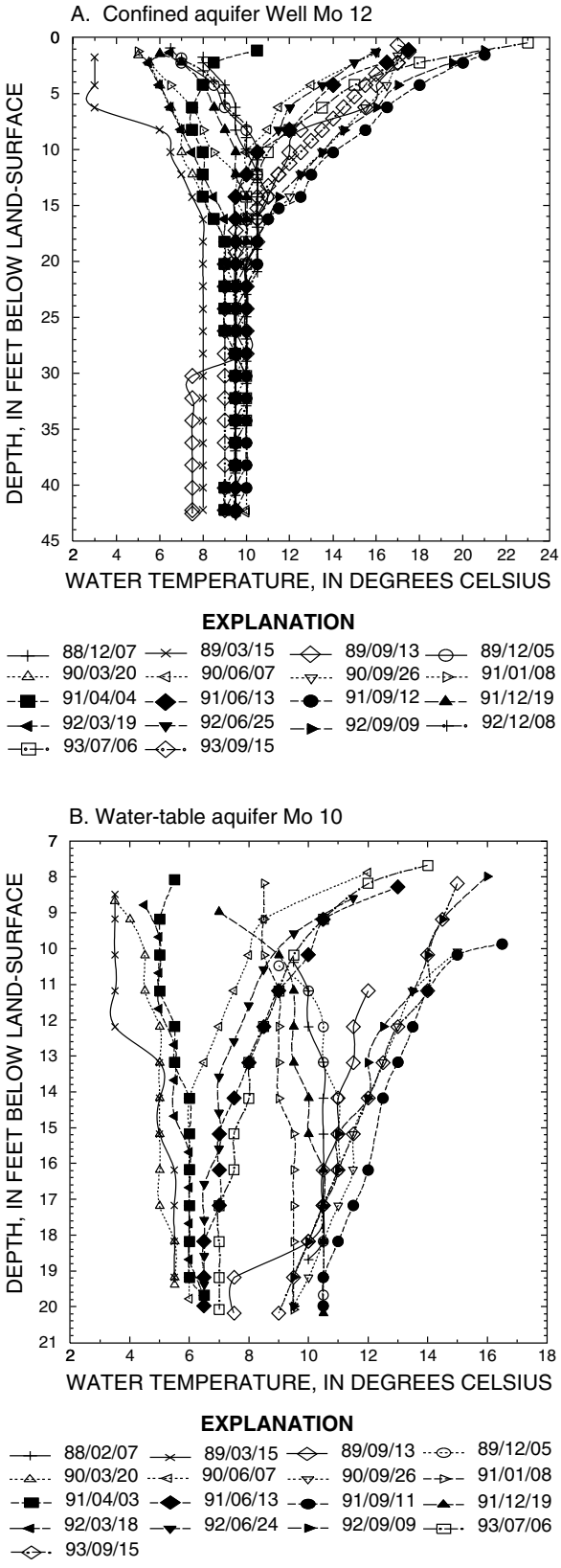



**Figure 7.** Water-temperature profiles from a well screened in (A) a confined aquifer, and (B) a shallow water-table aquifer, in Powder Mill Park, 1989-93. Note differing scales. (Locations are shown in fig. 2, tables and graphs are given in the ground-water tables (p. 116-190).

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-

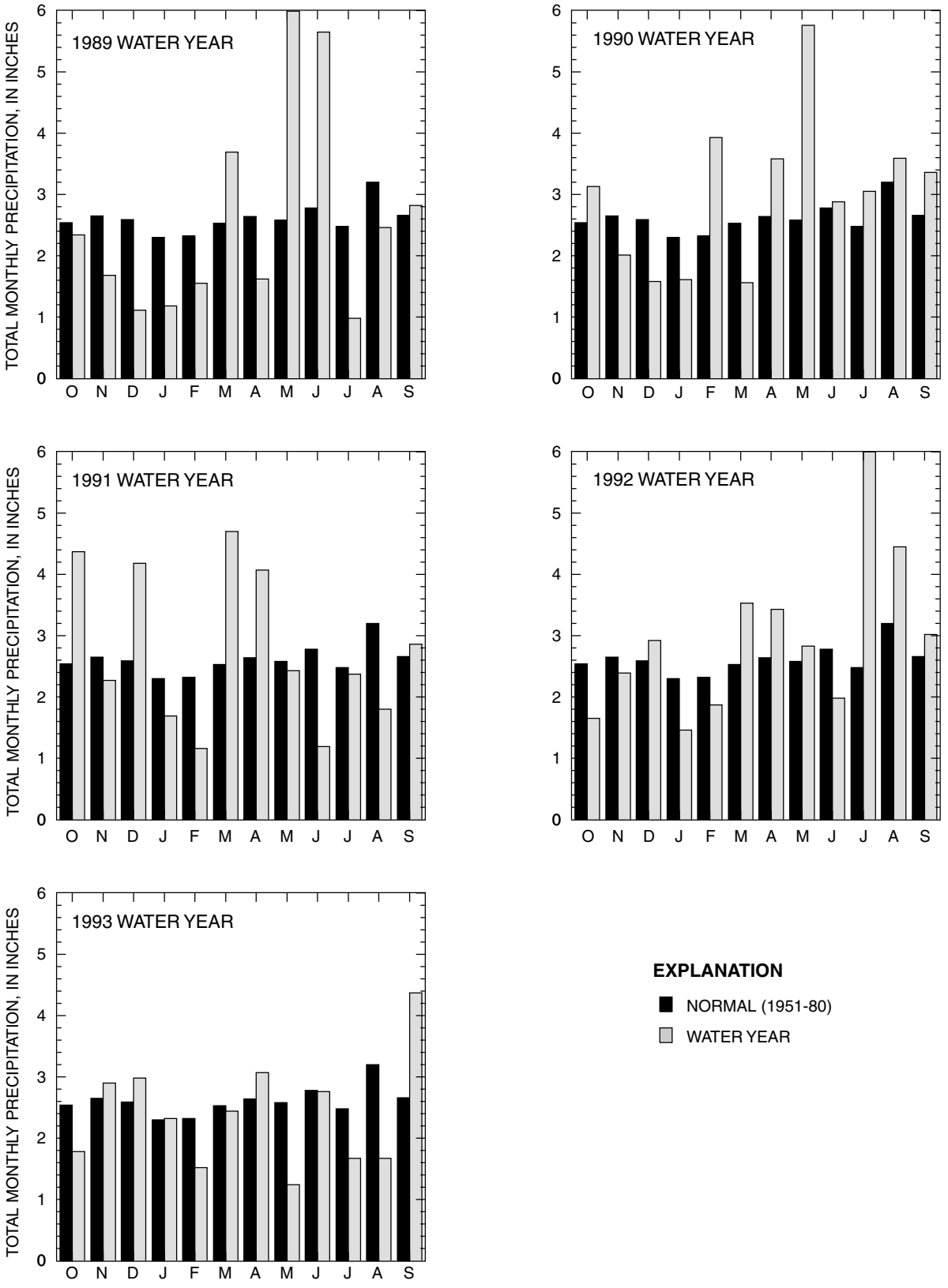



**Figure 8.** Monthly precipitation at Rochester airport, October 1989 through September 1993 and normal monthly precipitation based on average for 1951-80. (Data from National Oceanic and Atmospheric Administration, Climatological Data Annual Summary, New York series.)

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.

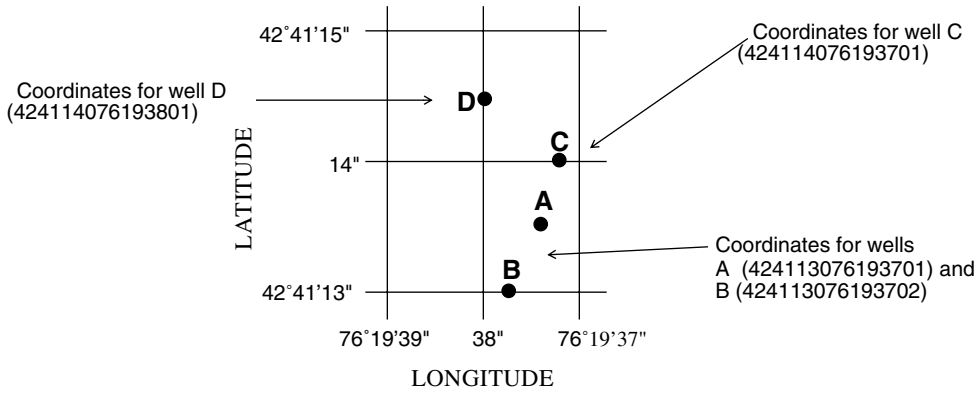



**Figure 9.** Latitude and longitude system for well numbering.

#### 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 | Mean values | | | Test | | | Number | |
| Site | Date | Consti-tuent | of pairs (n) | Hand | Auto | Mean diff. | statistic (*t*) | Mean bias | Standardd eviation | of pairs (n) | Test 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.]



### Miscellaneous and Partial-Record Stations



### Ground-Water Stations

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



### Precipitation Stations

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

### 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.

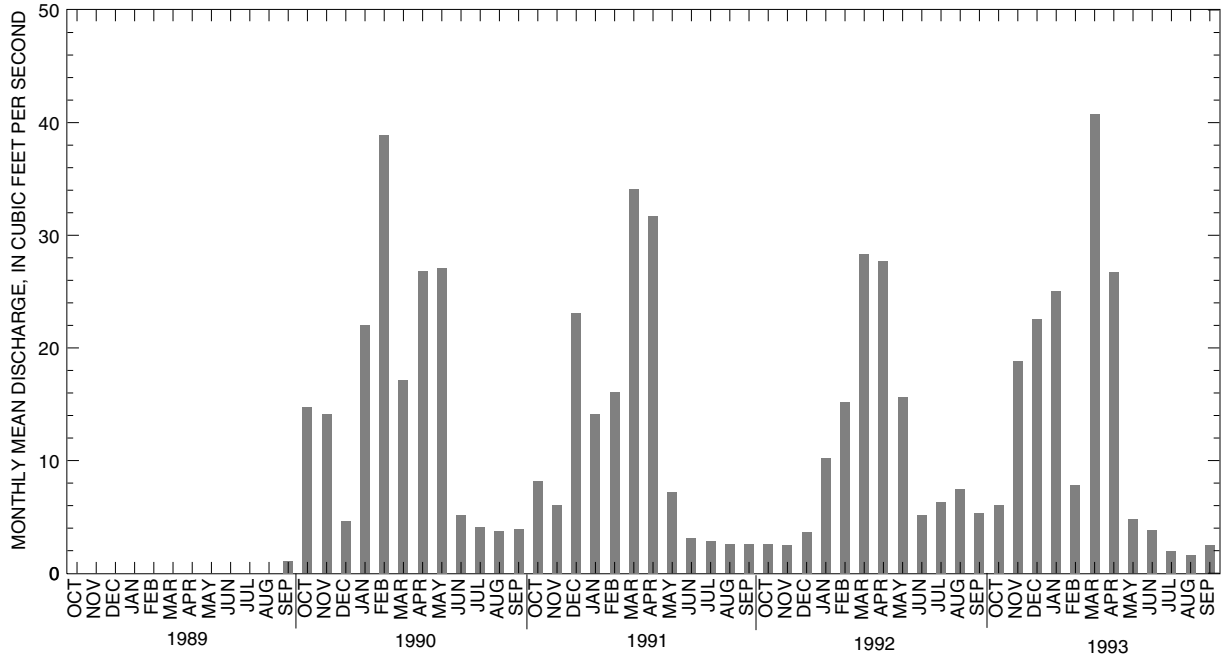
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1989-93, BY WATER YEAR

| | 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 | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | SPECIFIC CONDUCTANCE (µs/cm) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) | RESIDUE VOLATILE, SUSPENDED (mg/L) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (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.

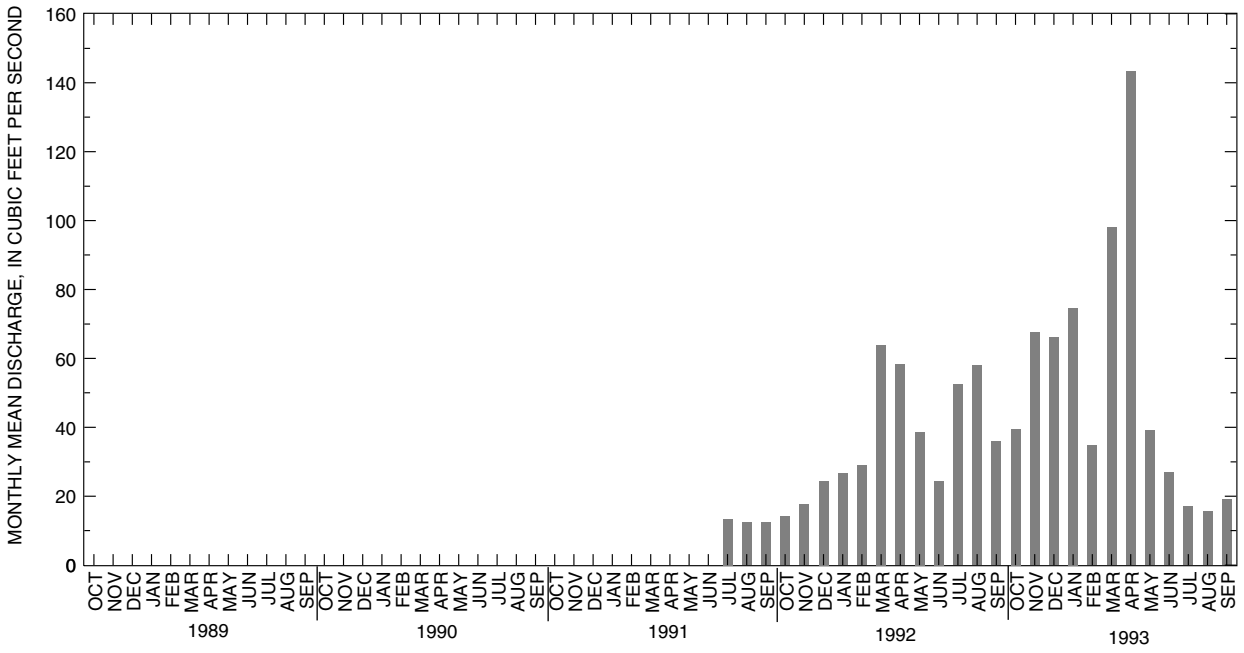
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1991-93, BY WATER YEAR

| | 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.

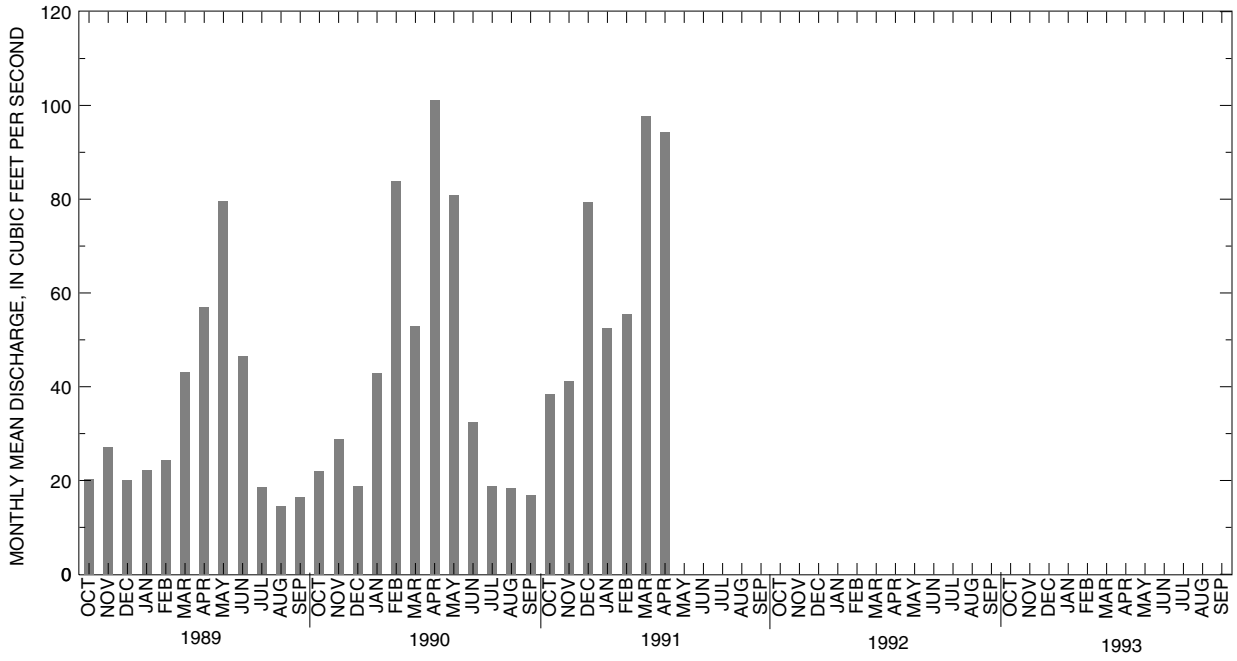
EXTREMES FOR PERIOD March 1980 to May 1991.--Maximum discharge, 640 $ft^3/s$, revised, Mar. 12, 1962, gage height, 8.6 ft, at site then in use; minimum discharge measured, 8.10 $ft^3/s$, Sept. 17, 1964; minimum gage height at present site, 2.98 ft, Sept. 12, 1983.

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-<br>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-<br>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.

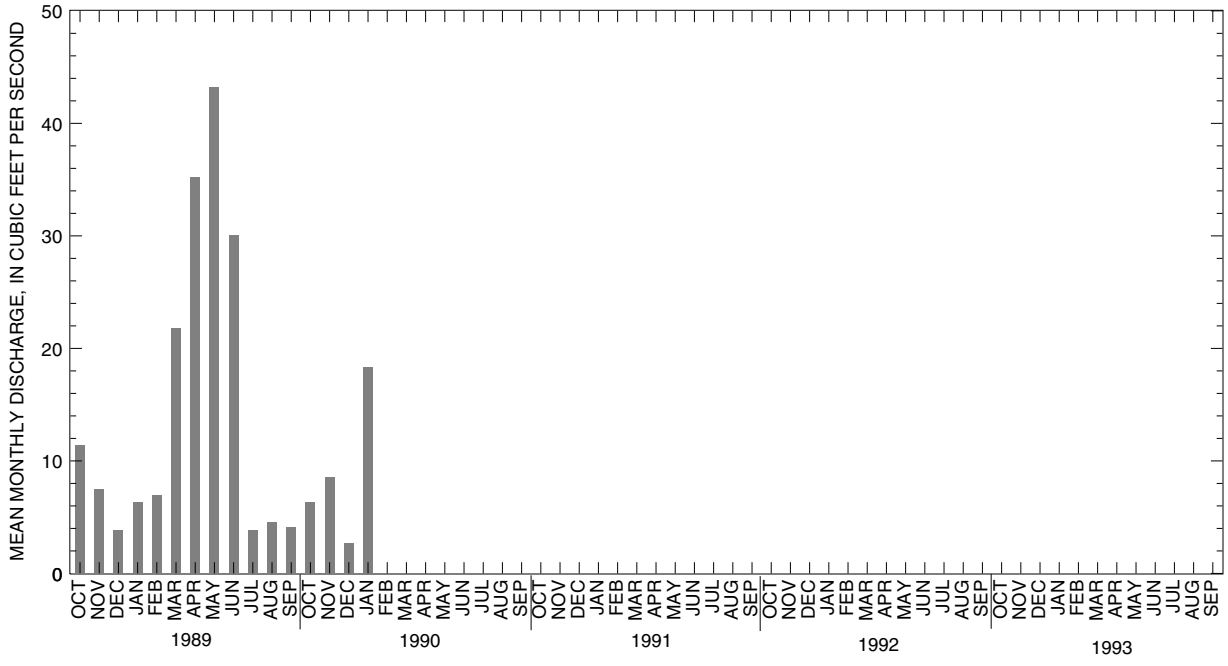
EXTREMES FOR PERIOD March 1980 to February 1990.--Maximum discharge, 232 $ft^3/s$, Feb. 15, 1984, gage height, 2.71 ft; maximum gage height, 3.62 ft, Jan. 12, 1982 (ice jam); minimum discharge, 1.2 $ft^3/s$, Sept. 12, 1989; minimum gage height, 1.22 ft, June 7, 8, 13, 1981.

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 | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (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

**WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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.

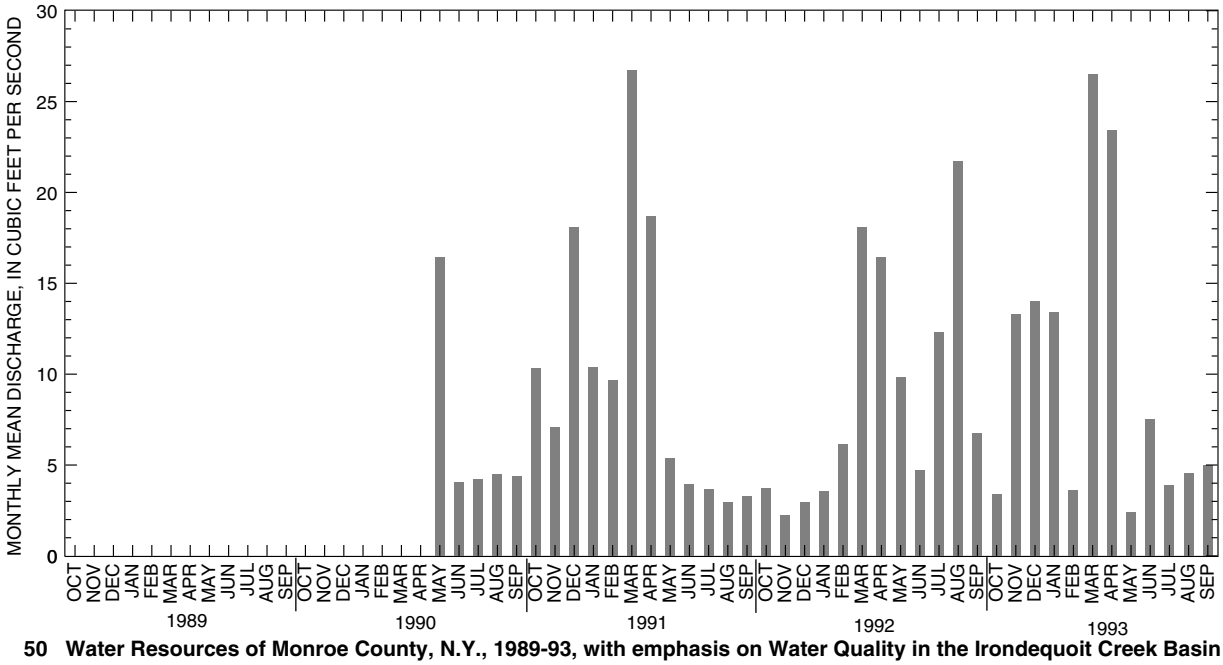
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1990 -93, BY WATER YEAR

| | 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 |

# Surface-Water Stations

## A. Discharge and water quality

### 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

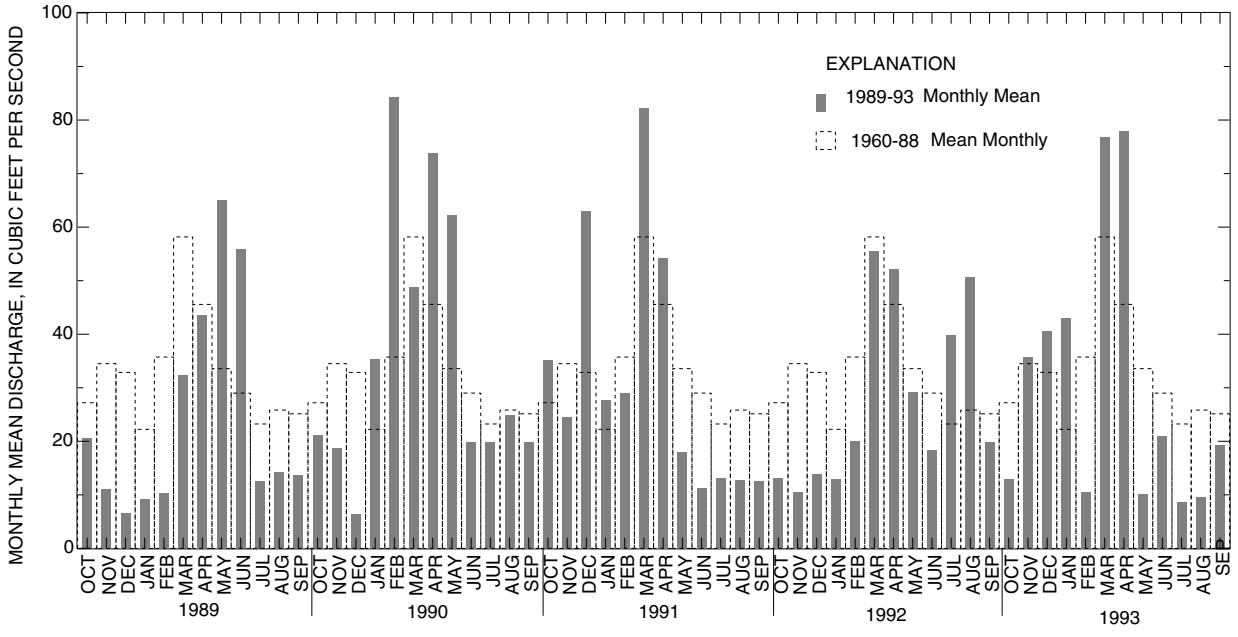
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1960-93, BY WATER YEAR

| | 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

**WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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.

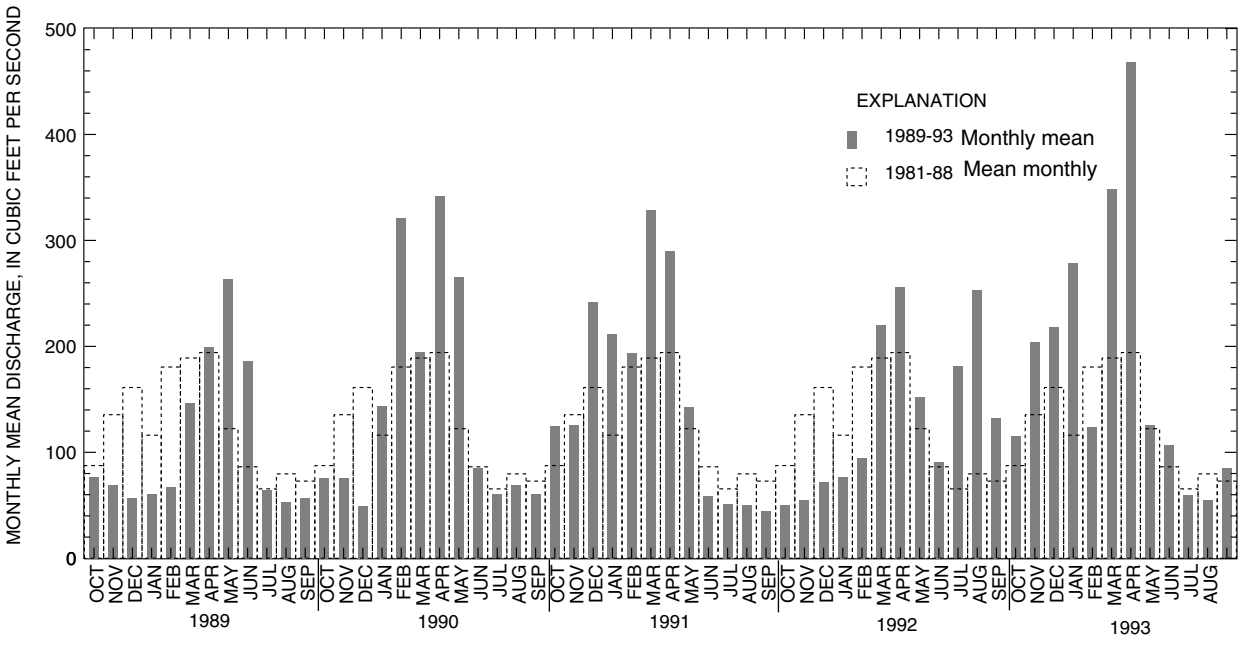
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1981-93, BY WATER YEAR

| | 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 | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) | RESIDUE VOLATILE, SUSPENDED (mg/L) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (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 | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) | RESIDUE VOLATILE, SUSPENDED (mg/L) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (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

**WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued**

| DATE | TIME | ENDING TIME | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) | RESIDUE VOLATILE, SUSPENDED (mg/L) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (mg/L as $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) | RESIDUE VOLATILE, SUSPENDED (mg/L) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (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 |

### 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** | | | | | | | | | | | | | |
| 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.

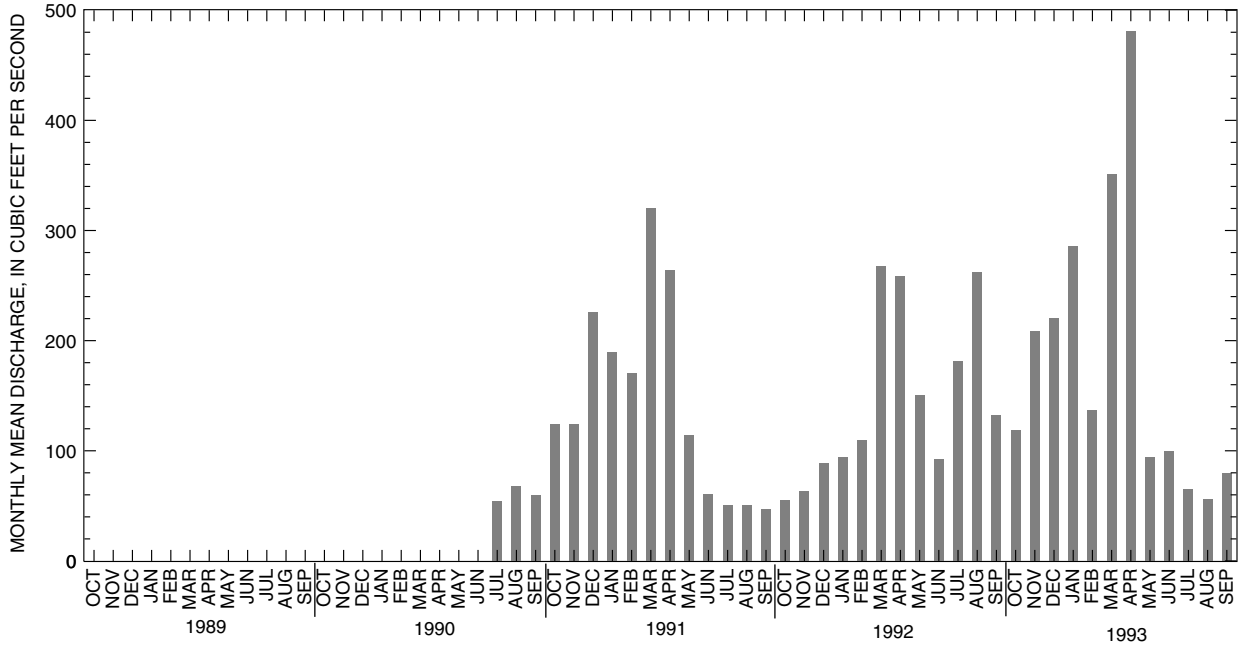
STATISTICS OF MONTHLY MEAN DISCHARGE (in cubic feet per second) FOR WATER YEARS 1990-93, BY WATER YEAR

| | 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 |

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

2. WATER-QUALITY RECORDS

**WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

### 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 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 |

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

2. WATER-QUALITY RECORDS

**WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

### 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 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 |

### 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** | | | | | | | | | | | | | |
| 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

**WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | DISCHARGE, IN CUBIC FEET PER SECOND | TURBIDITY (NTU) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (mg/L) | RESIDUE VOLATILE, SUSPENDED (mg/L) | 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) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (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

**WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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

**WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993-continued**

| 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 $SO_4$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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.

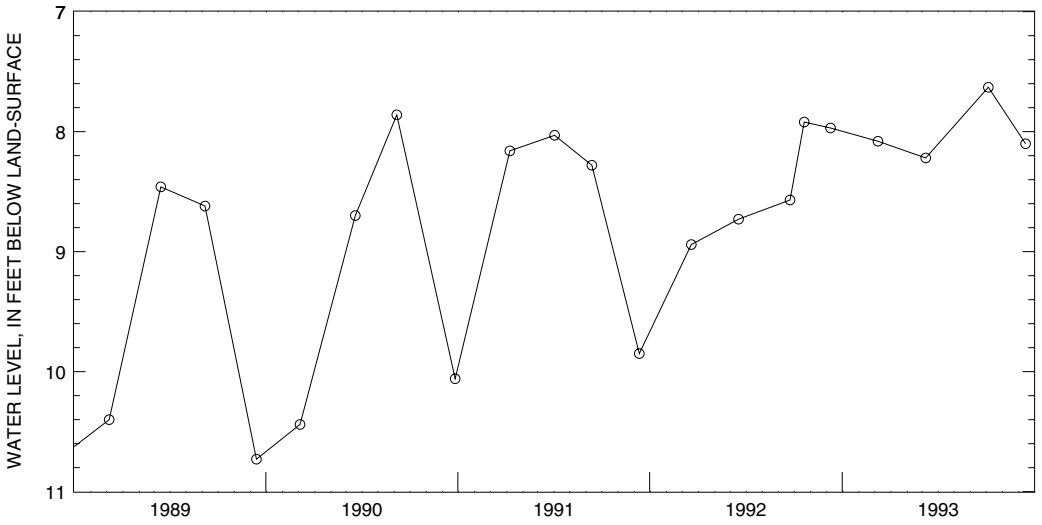
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

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 |

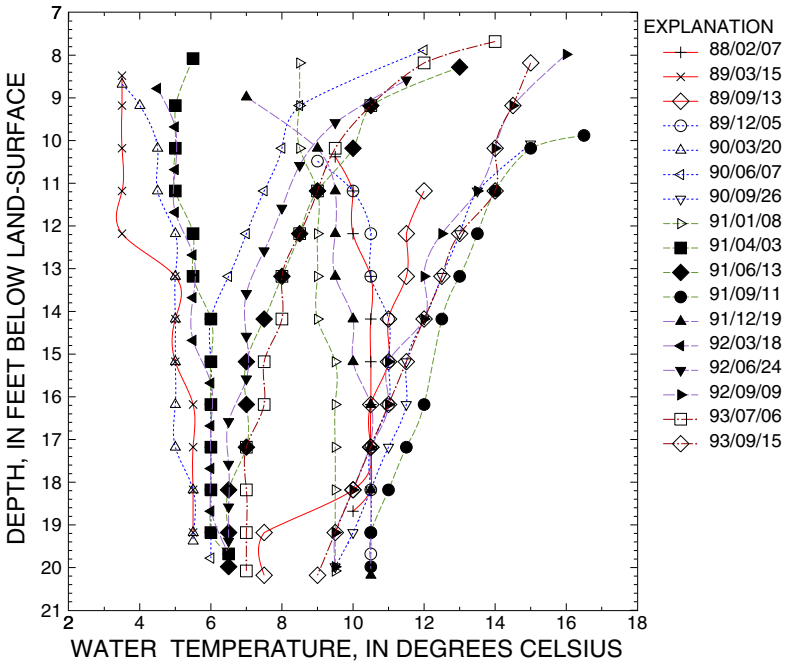
| DATE | NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) | NITROGEN, $NO_2+NO_3$ TOTAL (mg/L as N) | PHOSPHORUS TOTAL (mg/L as P) | PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) | CARBON, ORGANIC TOTAL (mg/L as C) | HARDNESS TOTAL (mg/L as $CaCO_3$) | CALCIUM TOTAL RECOVERABLE (mg/L as Ca) | CALCIUM DISSOLVED (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

| | 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 8 | Apr 3 | Jun 13 | Sep 11 | Dec 19 | Mar 18 | Jun 24 | Sep 9 | 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.

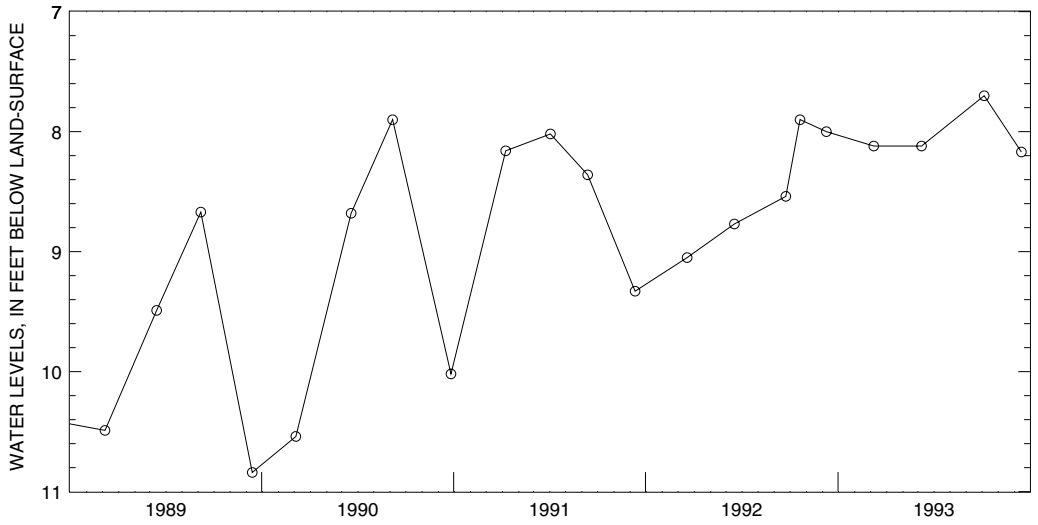
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

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 |

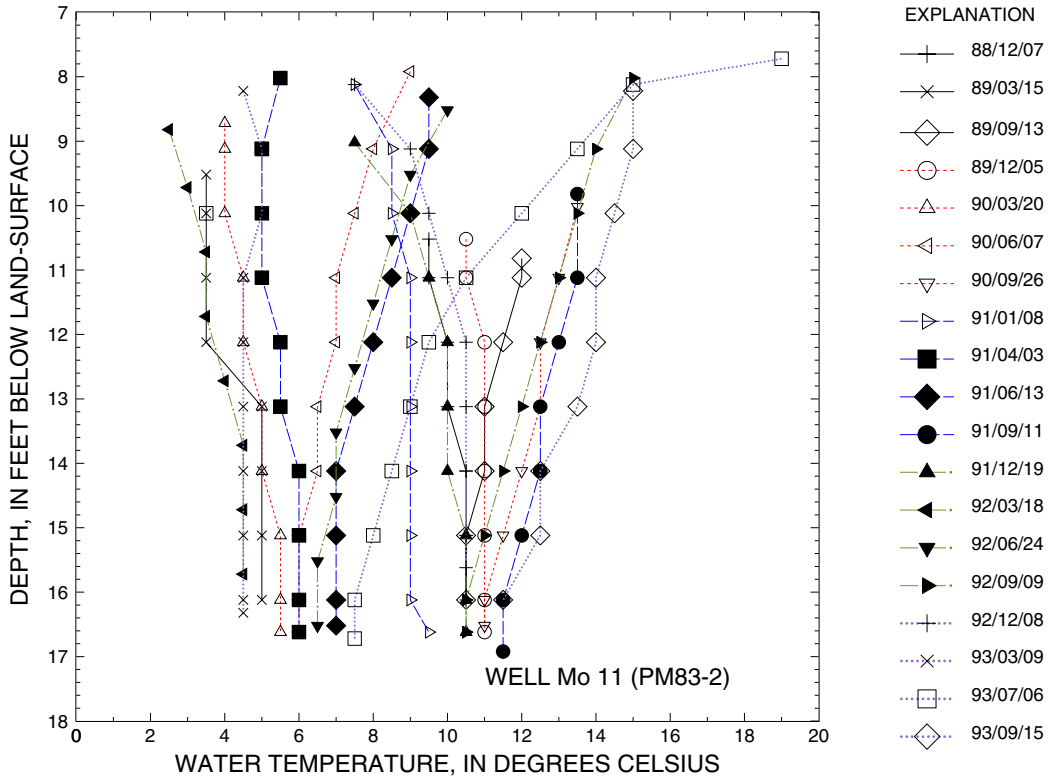
## GROUND-WATER TEMPERATURE PROFILES

### Powder Mill Park

**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.

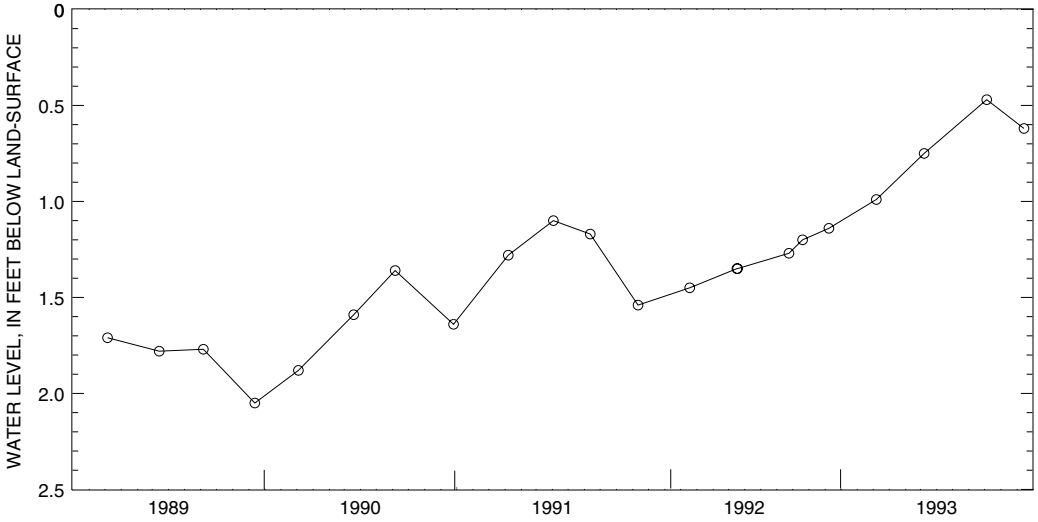
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

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

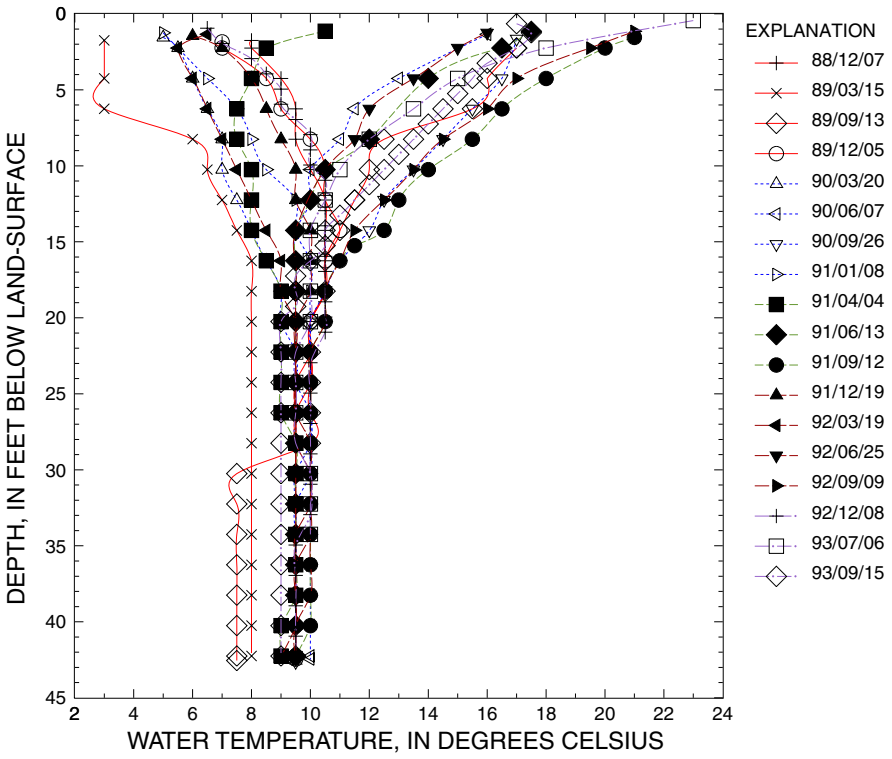
### Powder Mill Park

**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**



## GROUND-WATER LEVELS

### Ellison park

**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.

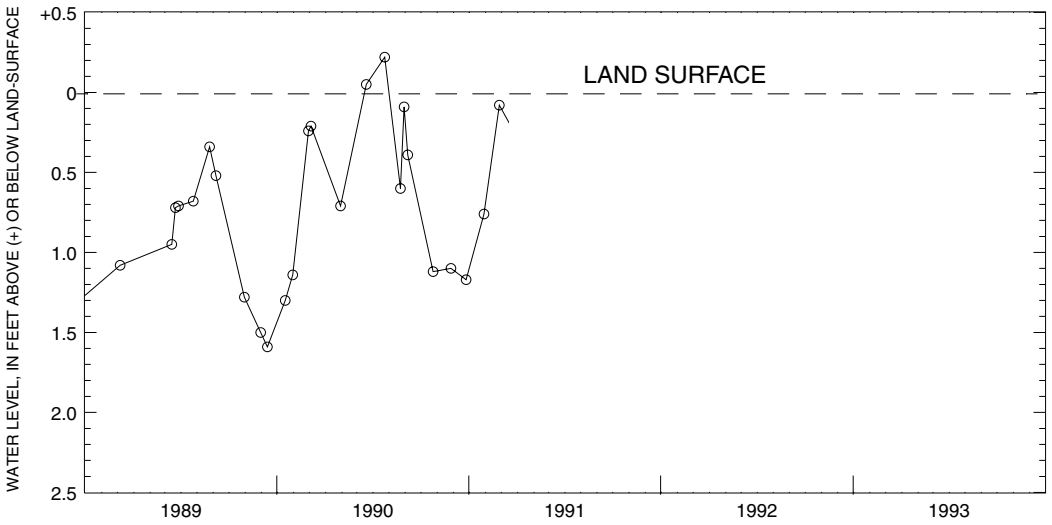
REMARKS.--Water level may be affected by stage of Irondequoit Creek. This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly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

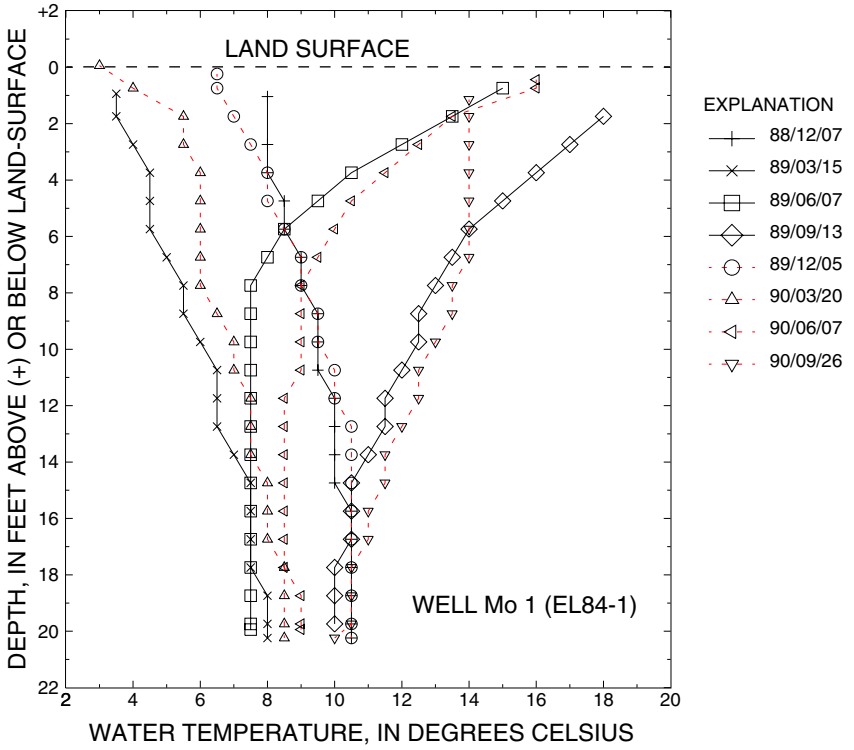
| DATE | NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) | NITROGEN, $NO_2+NO_3$ TOTAL (mg/L as N) | PHOSPHORUS TOTAL (mg/L as P) | PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) | CARBON, ORGANIC TOTAL (mg/L as C) | HARDNESS TOTAL (mg/L as $CaCO_3$) | CALCIUM TOTAL RECOVERABLE (mg/L as Ca) | CALCIUM DISSOLVED (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.

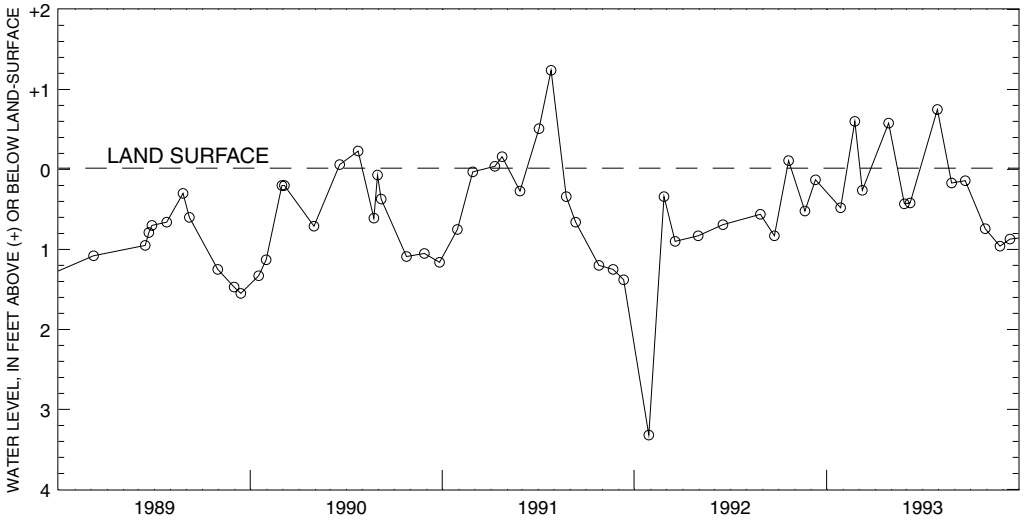
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

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 | 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 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 | 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 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, 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 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 |

## GROUND-WATER TEMPERATURE PROFILES

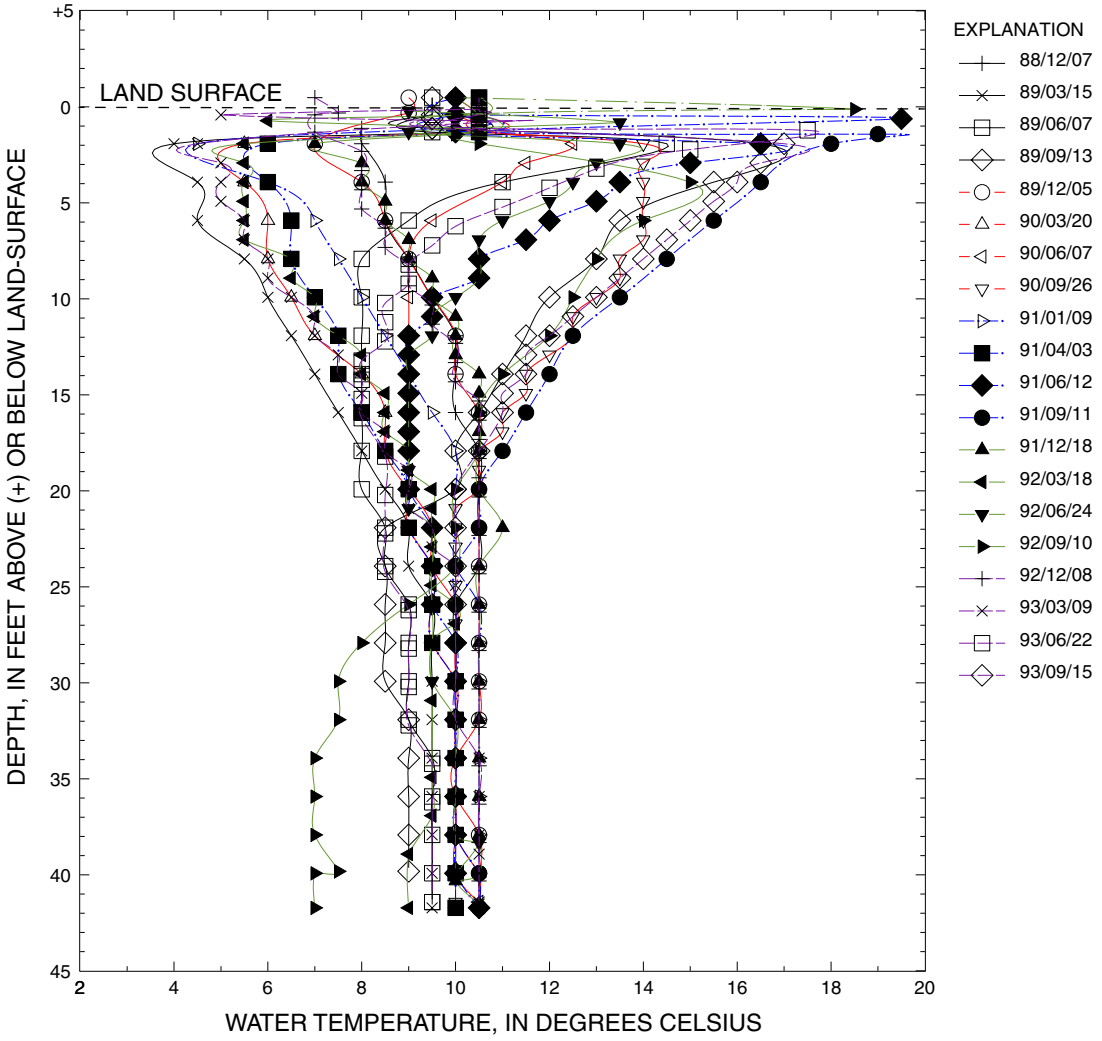
### Ellison park

**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.

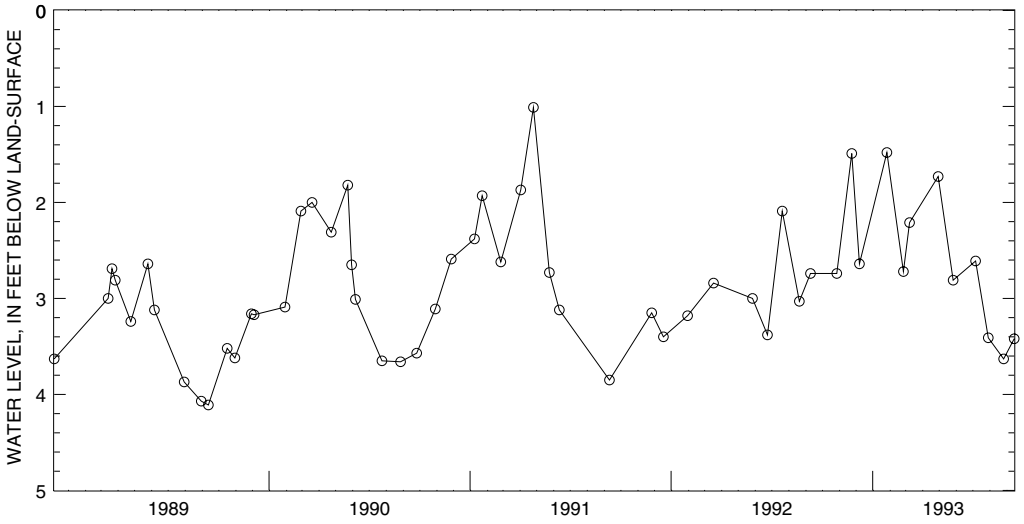
REMARKS.--Water level affected by stage of Irondequoit Creek. This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly 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 | 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 | -- | 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 | 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 | 0.37 | 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, DISSOLVED (mg/L as Na) | POTASSIUM, DISSOLVED (mg/L as K) | CHLORIDE, DISSOLVED (mg/L as Cl) | SULFATE DISSOLVED (µg/L as $SO_4$) | IRON, TOTAL RECOVERABLE (mg/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 | 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 |

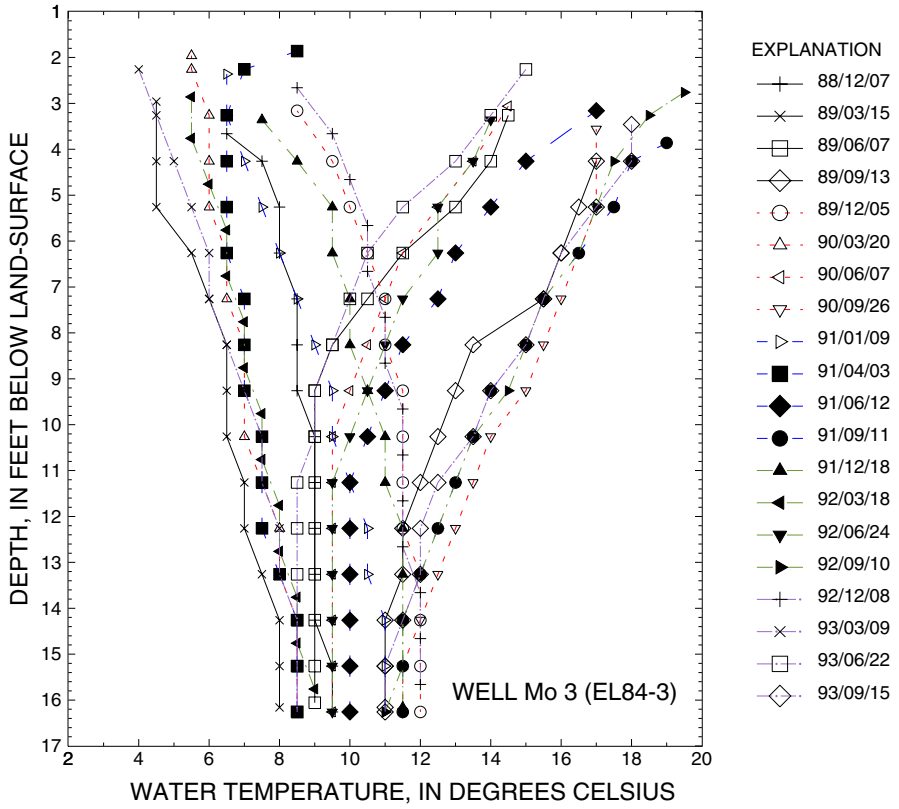
## GROUND-WATER TEMPREATURES

### Ellison park

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

WATER TEMPERATURE, IN DEGREES CELSIUS

| 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 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.

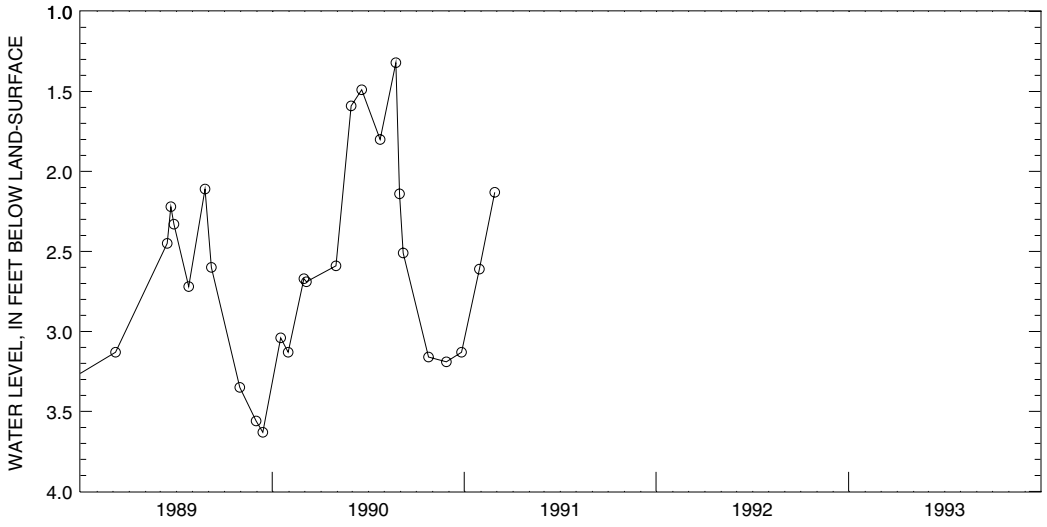
REMARKS.--Water level affected by stage of Irondequoit Creek. This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly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

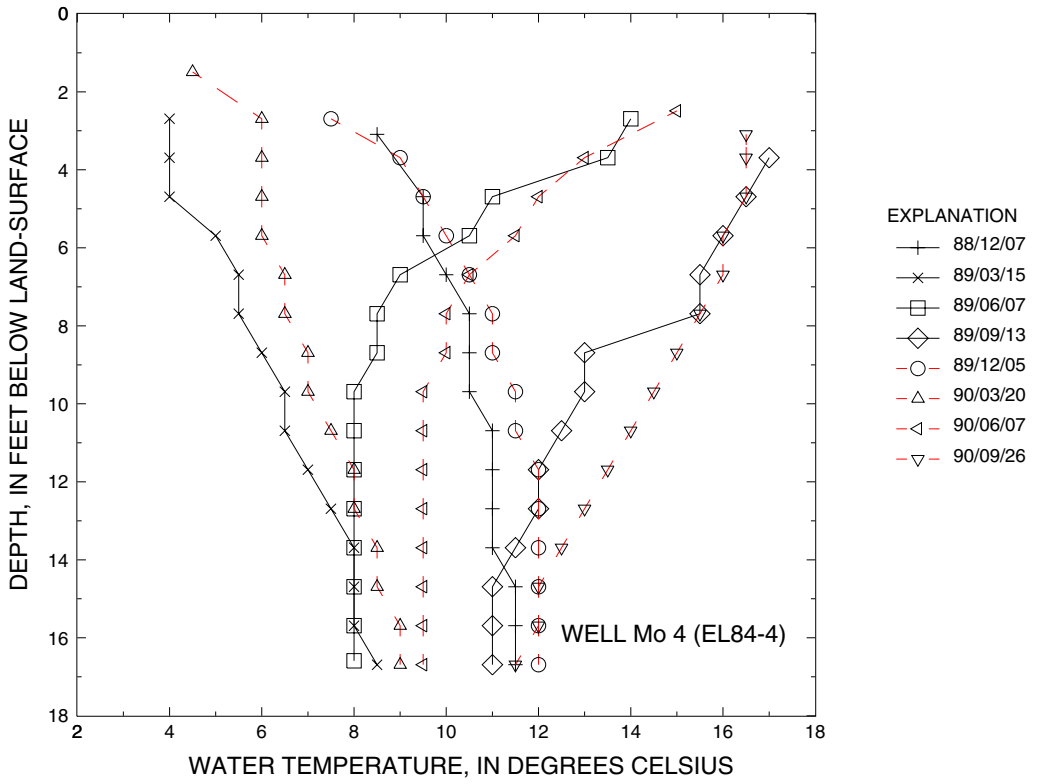
## GROUND-WATER TEMPERATURE PROFILES

### Ellison park

**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.

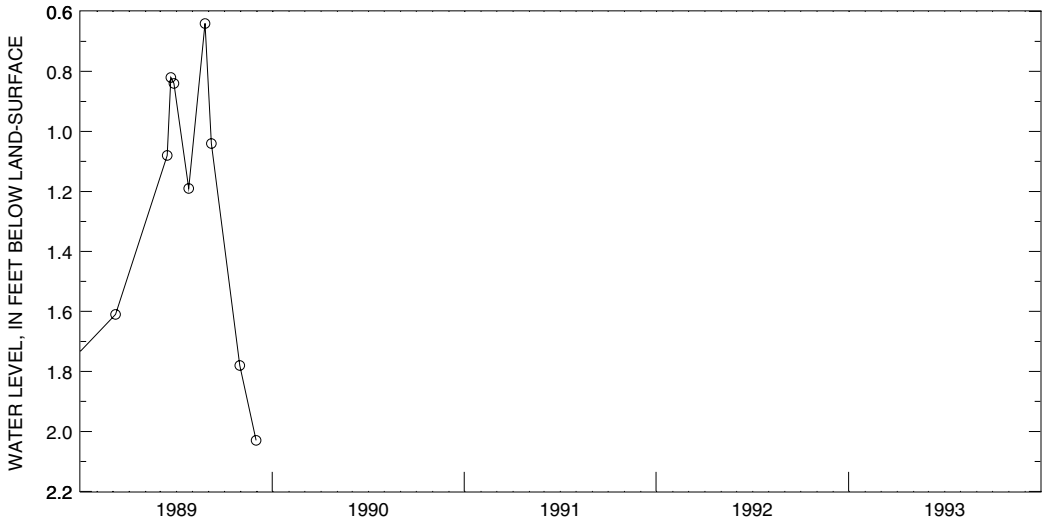
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

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 |

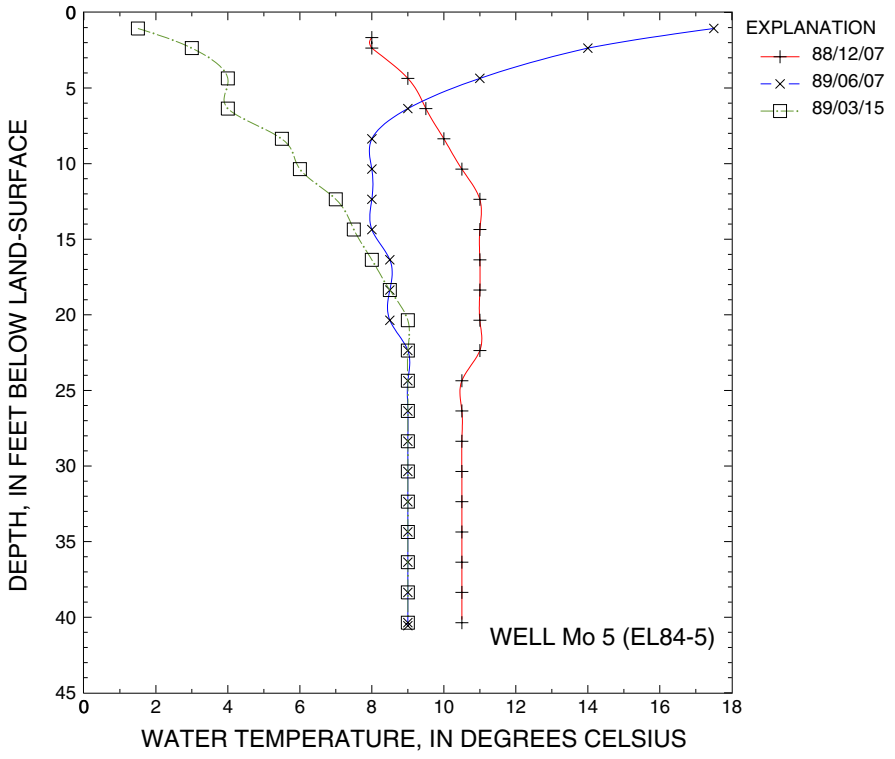
| DATE | NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) | NITROGEN, $NO_2$+$NO_3$ TOTAL (mg/L as N) | PHOSPHORUS TOTAL (mg/L as P) | PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) | CARBON, ORGANIC TOTAL (mg/L as C) | HARDNESS TOTAL (mg/L as $CaCO_3$) | CALCIUM TOTAL RECOVERABLE (mg/L as Ca) | CALCIUM DISSOLVED (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.

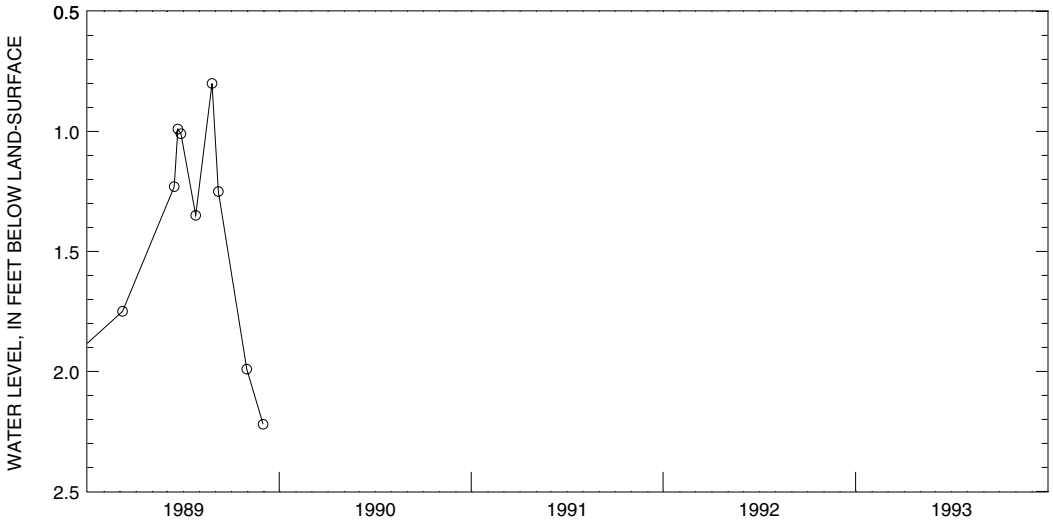
REMARKS.--This well is also a water-quality observation well. Water levels are monitored monthly and water samples taken quarterly by the Monroe County Environmental Health Laboratory. Water-temperature profiles are also taken by MCEHL on a quarterly basis.

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 |

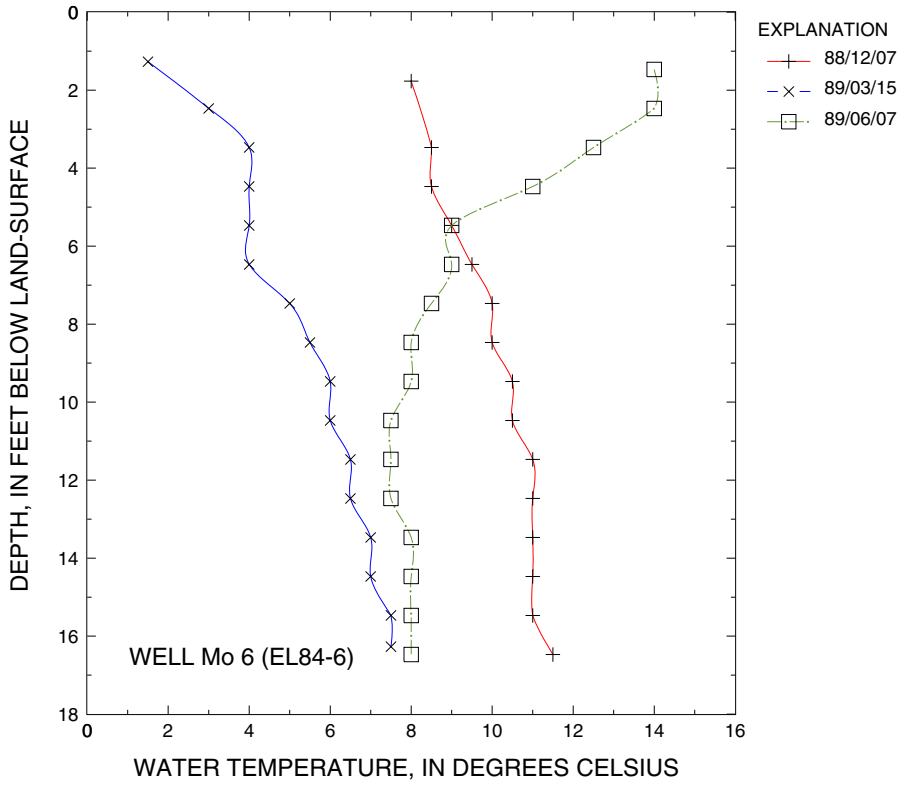
| DATE | NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) | NITROGEN, $NO_2+NO_3$ TOTAL (mg/L as N) | PHOSPHORUS TOTAL (mg/L as P) | PHOSPHORUS ORTHO, DISSOLVED (mg/L as P) | CARBON, ORGANIC TOTAL (mg/L as C) | HARDNESS TOTAL (mg/L as $CaCO_3$) | CALCIUM TOTAL RECOVERABLE (mg/L as Ca) | CALCIUM DISSOLVED (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.

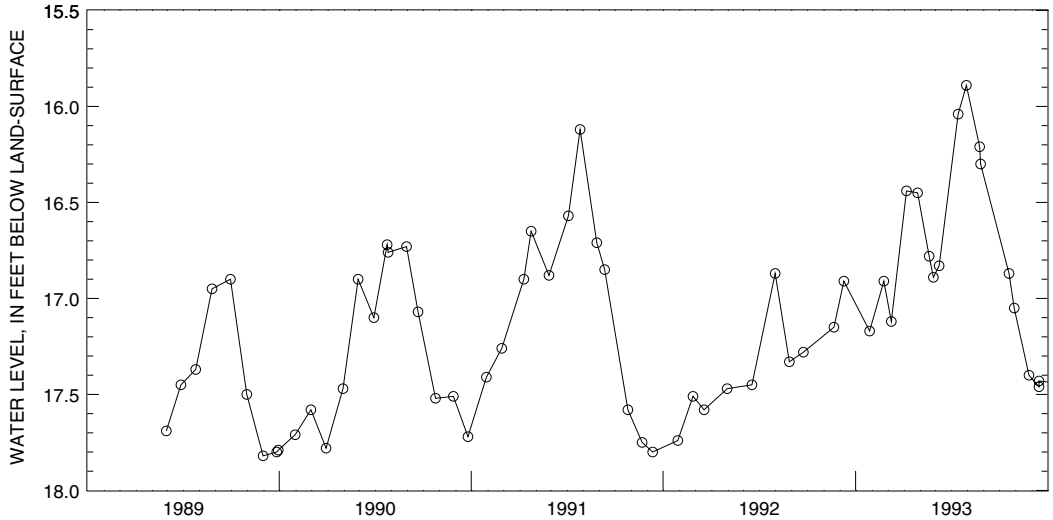
REMARKS.--Well also sampled for water-quality.

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 | | |



**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 |

## GROUND-WATER TEMPERATURE PROFILES

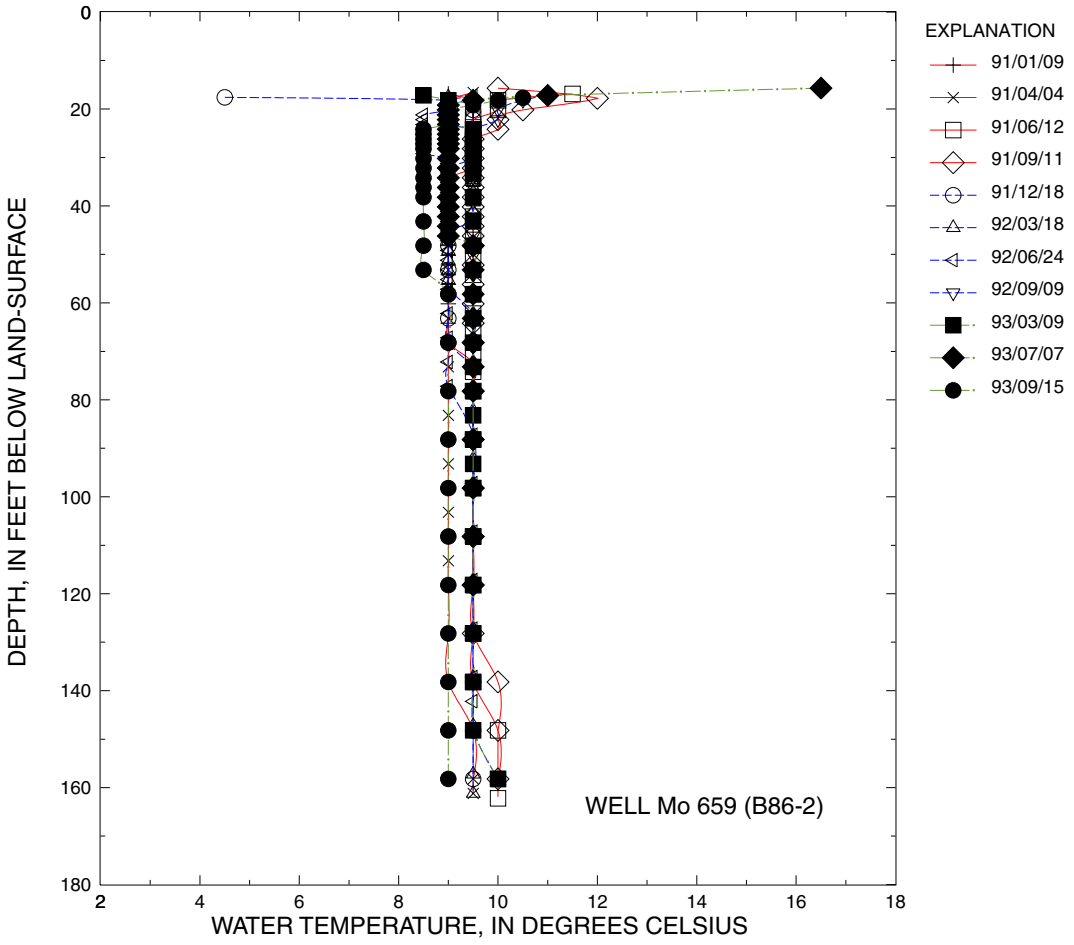
### Ellison park

**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.

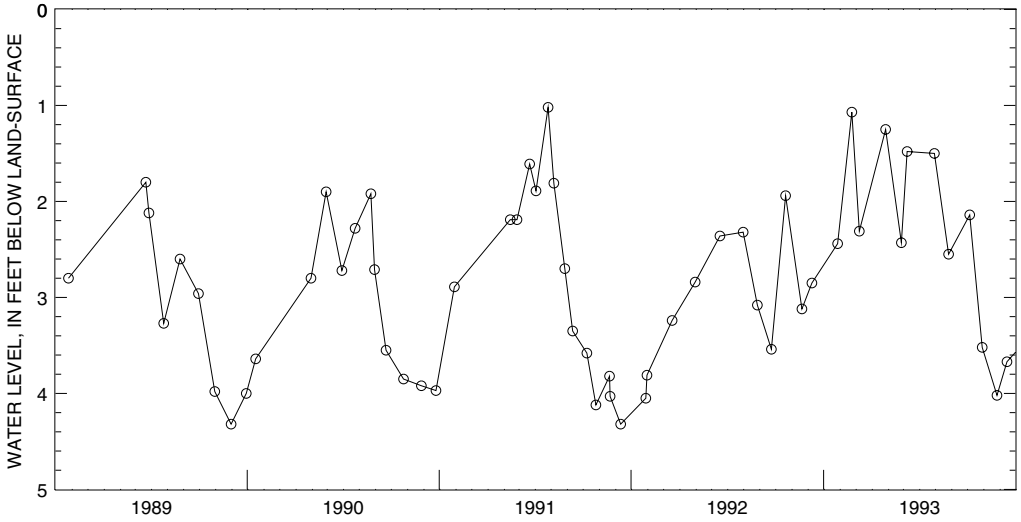
REMARKS.--Well also sampled for water quality.

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 |

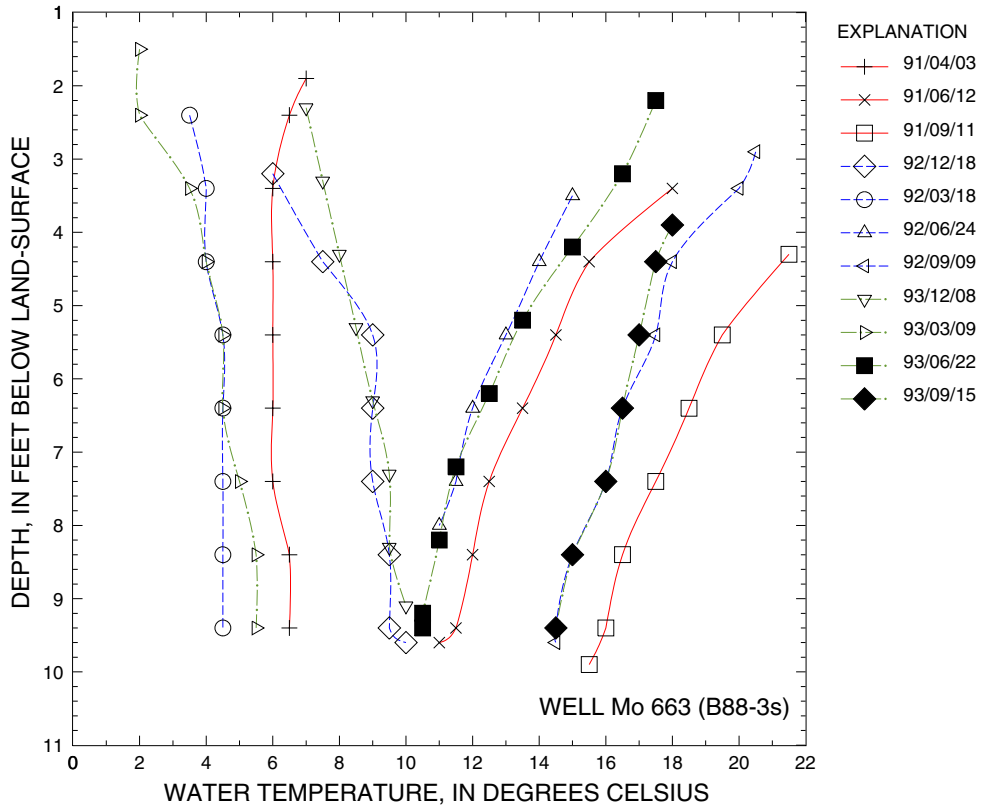
## GROUND-WATER TEMPERATURE PROFILES

### Ellison park

**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.

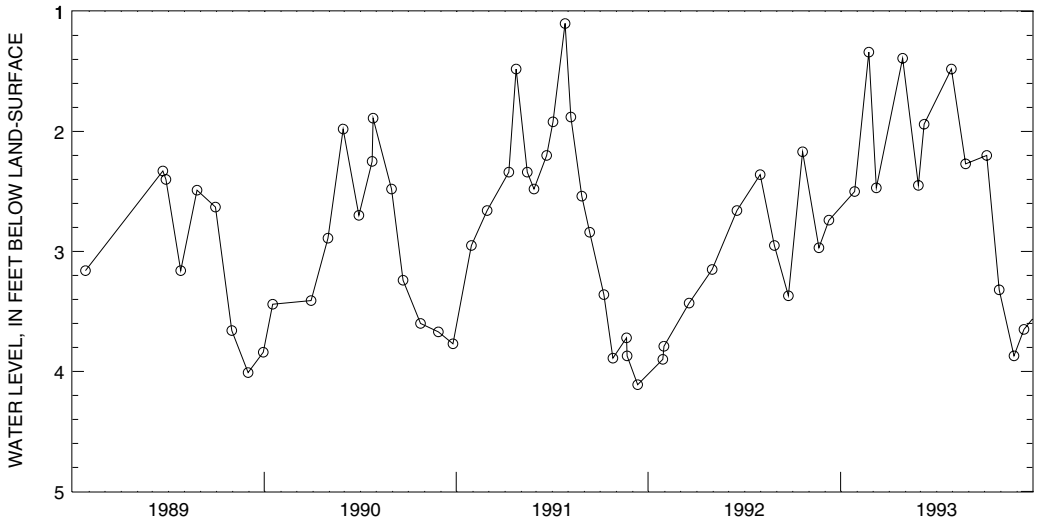
REMARKS.--Well also sampled for water quality.

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 |

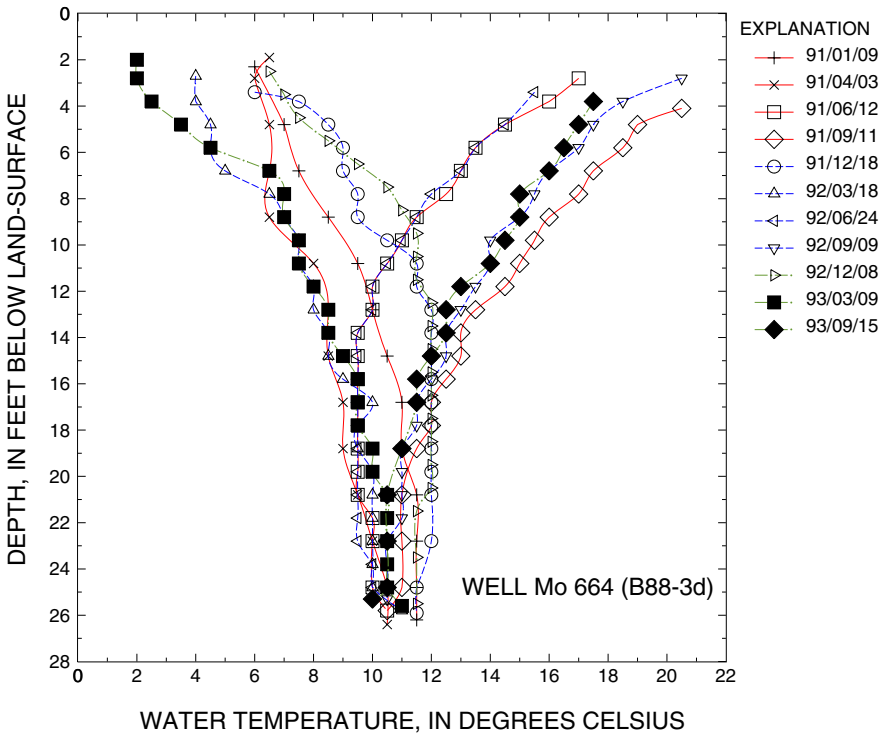
## GROUND-WATER TEMPERATURE PROFILES

### 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.

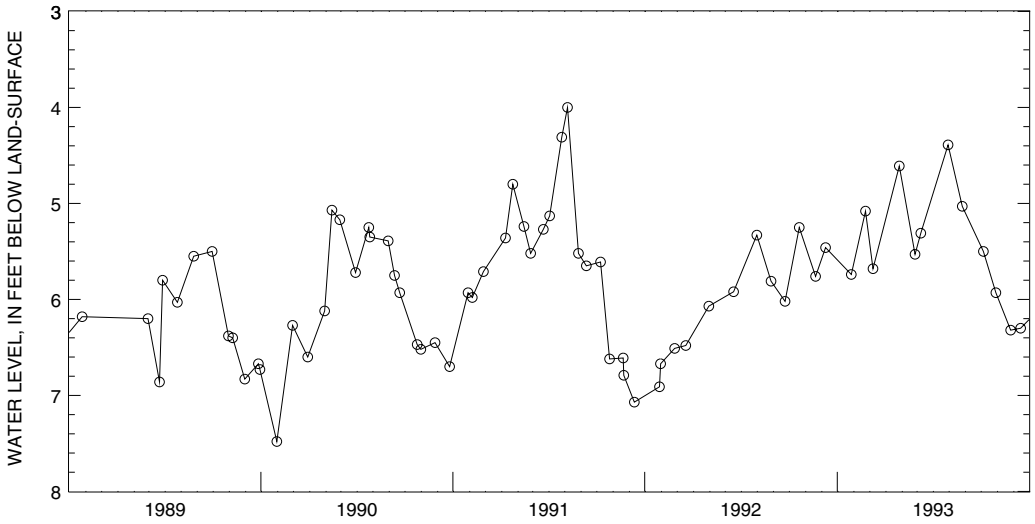
REMARKS.--Well also sampled for water-quality.

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 |



## GROUND-WATER QUALITY

### Ellison park

**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 |

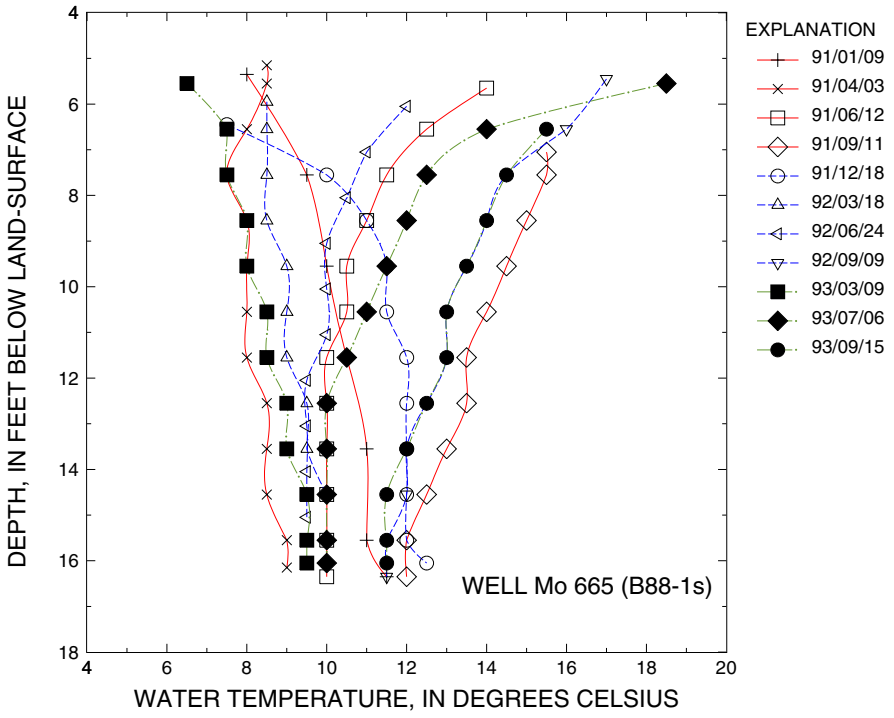
## GROUND-WATER TEMPERATURE PROFILES

### 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.

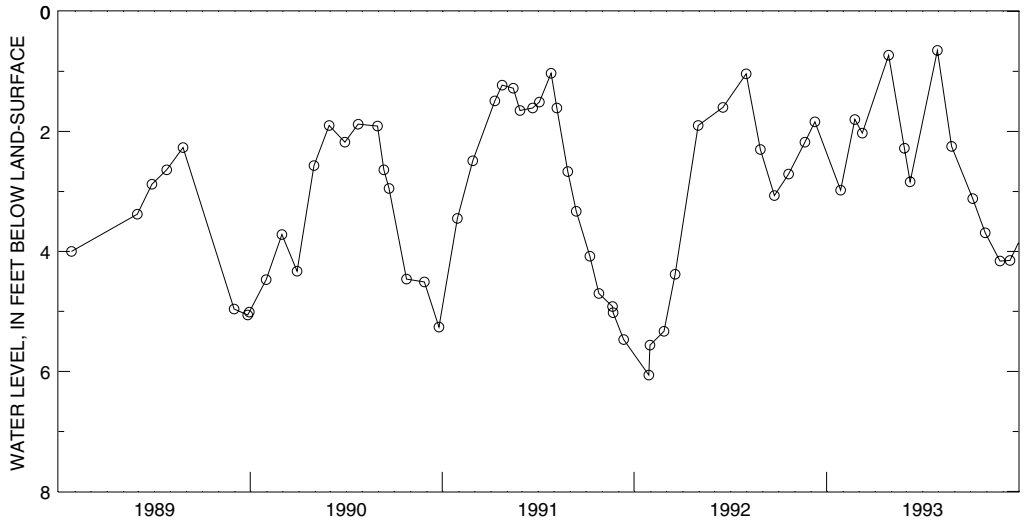
REMARKS.--Well also sampled for water-quality.

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 |

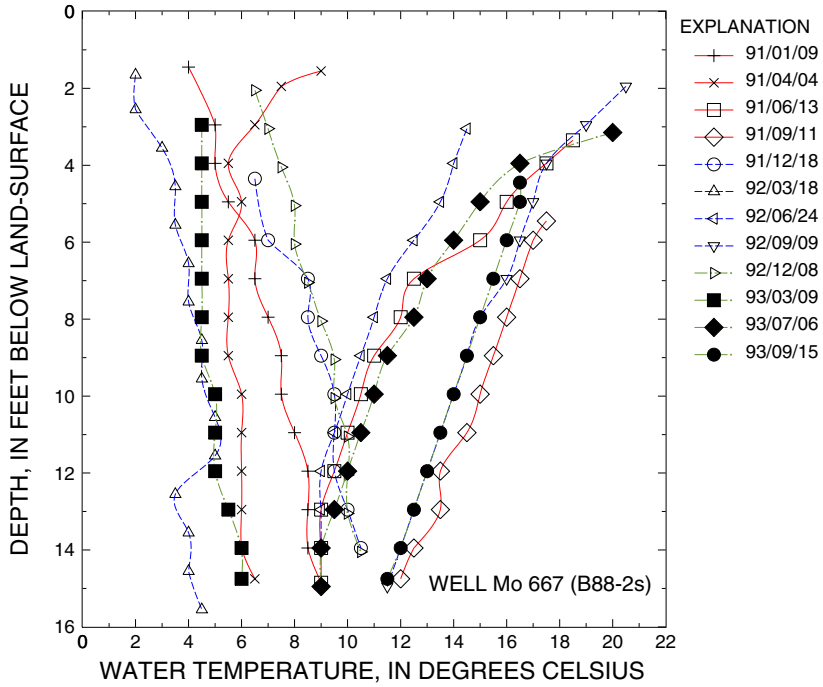
## GROUND-WATER TEMPERATURE PROFILES

### 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.

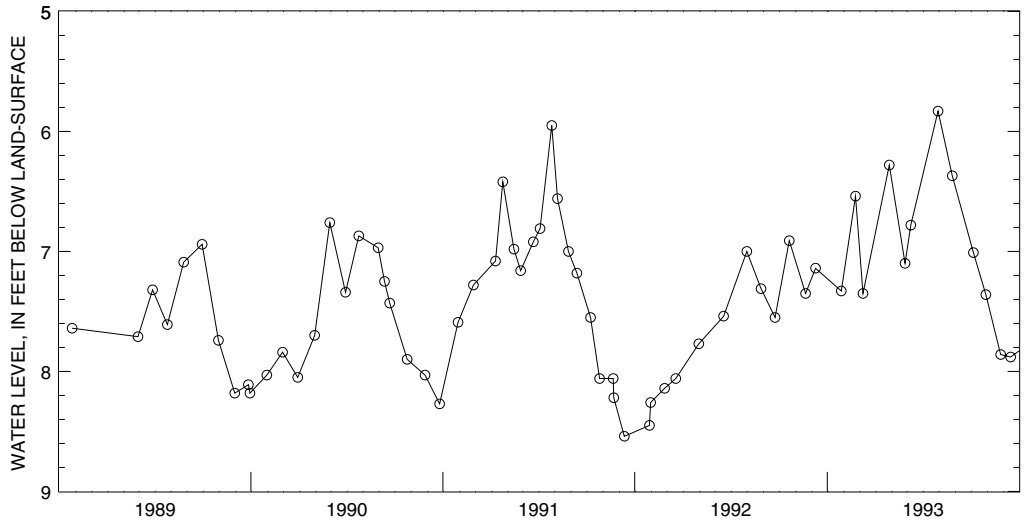
REMARKS.--Well also sampled for water quality.

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 |

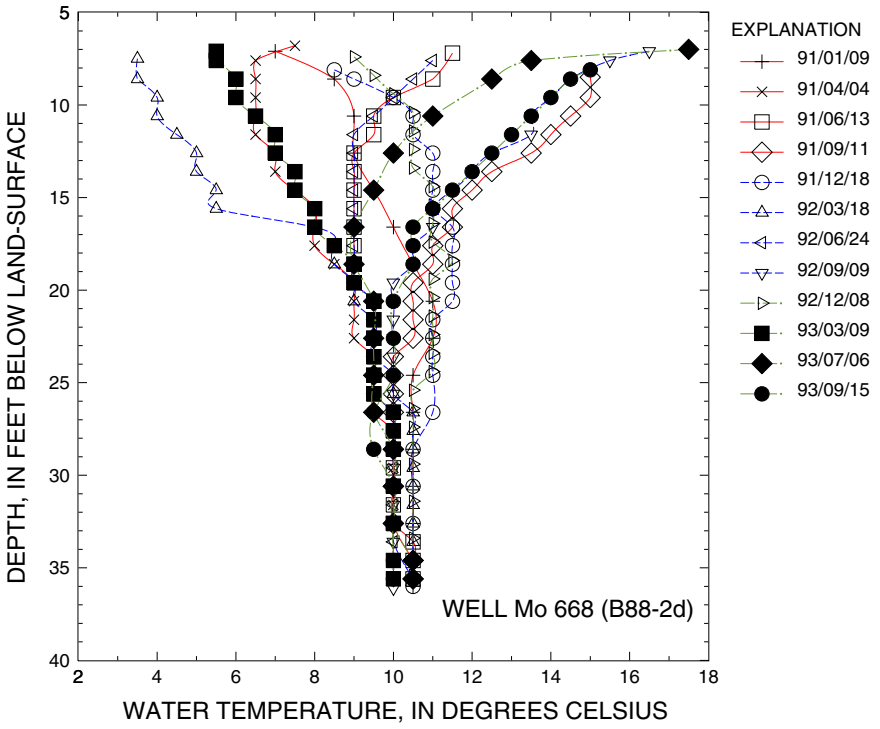
## GROUND-WATER TEMPERATURE PROFILES

### 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 | -- |

e estimated

## 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 |

## 430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

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 |

## 430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

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 |

## 430117077350101. At Mendon Ponds, Rochester, N.Y. -- continued

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 |

## 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 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 |