# 01302050 ALLEY CREEK NEAR OAKLAND GARDENS, NY

Long Island Basin
Northern Long Island Subbasin

LOCATION.--Lat 40°45′21″, long 73°44′47″ referenced to North American Datum of 1927, Queens County, NY, Hydrologic Unit 02030201, on right bank just upstream from Cross Island Parkway entrance ramp, at upstream side of culvert in Alley Pond Park, about 4.0 mi northeast of Oakland Gardens.

DRAINAGE AREA.--0.68 $mi^2$, revised.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1993 to September 2006, August 2007 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.26 ft above NGVD of 1929.

REMARKS.--Records fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 354 $ft^3/s$, Oct. 19, 1996, gage height, 5.09 ft, from rating curve extended above 60 $ft^3/s$; maximum gage height, 6.17 ft, Oct. 19, 1996, backwater from high tide; minimum discharge, 0.66 $ft^3/s$, part or all of many days 1995-97, Mar. 27, 2003, June 17-19, 21-24, 2004, all result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 $ft^3/s$, Sept. 6, gage height 1.49 ft; maximum gage height, 3.35 ft, Aug. 14, backwater from high tide; minimum discharge, 2.0 $ft^3/s$, Apr. 10, gage height, 0.29 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**
**DAILY MEAN VALUES**
[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.7 | 3.3 | 3.4 | 3.4 | e5.4 | 3.7 | 2.7 | 3.5 | 3.6 | 3.6 | 3.3 | 2.6 |
| 2 | 2.7 | 3.3 | 3.4 | 3.4 | 4.0 | 3.4 | 3.0 | e4.0 | 3.7 | 3.7 | 4.5 | 2.5 |
| 3 | 2.7 | 3.0 | 4.3 | 3.4 | 3.7 | 3.4 | 2.8 | e5.0 | 3.6 | 3.6 | 3.4 | 2.7 |
| 4 | 2.7 | 2.8 | 3.4 | e3.0 | 3.6 | 3.4 | 4.3 | e3.8 | 5.5 | 3.7 | 3.4 | 2.8 |
| 5 | 2.7 | 2.8 | 3.4 | e2.5 | 3.6 | 3.5 | 3.5 | e2.7 | 3.7 | 3.8 | 3.4 | 2.8 |
| 6 | 2.7 | 3.1 | 3.4 | e2.5 | 3.3 | 3.6 | 4.9 | e3.7 | 3.7 | 3.7 | 3.4 | e4.9 |
| 7 | 2.7 | 3.3 | 3.4 | e2.4 | 2.8 | 5.8 | e2.7 | e3.7 | 3.4 | 3.6 | 3.4 | 3.3 |
| 8 | 2.7 | 3.3 | 3.4 | 2.4 | 2.5 | 4.8 | 4.6 | e3.7 | 3.4 | 3.6 | 3.4 | 2.8 |
| 9 | 3.6 | 3.3 | 3.6 | 2.4 | 2.5 | 3.8 | 3.5 | e4.8 | 3.4 | 4.2 | 3.4 | 4.0 |
| 10 | e3.3 | 3.1 | 3.3 | 2.4 | 2.4 | 3.7 | 2.7 | 4.3 | 3.4 | 3.8 | 3.3 | 2.7 |
| 11 | e3.3 | 2.8 | 3.0 | 3.6 | 2.7 | 3.3 | 2.4 | 4.0 | 3.4 | 3.6 | 3.3 | 2.7 |
| 12 | e3.4 | 2.8 | 3.0 | 3.5 | 2.7 | 3.4 | e2.7 | e4.1 | 3.4 | 3.6 | 3.3 | 3.3 |
| 13 | 3.6 | 2.8 | 4.2 | 3.3 | e6.6 | 3.4 | 2.8 | 3.4 | 3.4 | 3.6 | 3.3 | 2.8 |
| 14 | 3.6 | 2.4 | 3.5 | e3.4 | 4.4 | 3.4 | 2.8 | 3.4 | 6.0 | 4.2 | e5.9 | 2.7 |
| 15 | 3.6 | 2.7 | 3.4 | 3.4 | 3.6 | 3.1 | 2.8 | 3.4 | 3.9 | 3.7 | 4.3 | 2.8 |
| 16 | 3.6 | 2.8 | e4.8 | 3.4 | 3.3 | 3.1 | 2.8 | e4.5 | 3.6 | 3.7 | 3.1 | 2.8 |
| 17 | 3.6 | 2.8 | 3.6 | 3.4 | 3.3 | 3.1 | 2.8 | 4.3 | 3.6 | 3.7 | 2.8 | 2.8 |
| 18 | 3.6 | 2.8 | 3.6 | 5.0 | 3.5 | 3.1 | 2.8 | 3.8 | 3.6 | 3.7 | 2.8 | 2.7 |
| 19 | e4.3 | 2.8 | 3.6 | 3.0 | 3.7 | 4.3 | 2.8 | 3.6 | 3.7 | 3.7 | 2.8 | 2.8 |
| 20 | 3.8 | 2.8 | 3.6 | 3.0 | 3.7 | 3.9 | 2.8 | 4.1 | 3.7 | 3.7 | 2.8 | 2.8 |
| 21 | 3.8 | 2.6 | e2.8 | 3.0 | 3.7 | 3.4 | 2.8 | 3.7 | 3.9 | 3.7 | 2.8 | 2.8 |
| 22 | 3.8 | e2.5 | e2.7 | 3.0 | 3.8 | 3.3 | 2.8 | 3.6 | 3.4 | 3.7 | 2.8 | 2.8 |
| 23 | 3.8 | 2.5 | e3.3 | 3.0 | 3.7 | 3.2 | 2.8 | 3.6 | 3.4 | 3.8 | 2.8 | 2.8 |
| 24 | 3.7 | 2.5 | 3.6 | 3.0 | 3.7 | 3.1 | 2.8 | 3.6 | 3.3 | e11 | 2.8 | 2.8 |
| 25 | e3.3 | 2.5 | 2.5 | 3.0 | 3.1 | 3.1 | 2.8 | 3.6 | 3.3 | e5.1 | 2.8 | 2.8 |
| 26 | e2.5 | 5.4 | 2.5 | 3.0 | 3.1 | 3.0 | 2.8 | 3.6 | 3.3 | e4.1 | 2.8 | e6.8 |
| 27 | e3.6 | 3.6 | 3.4 | 3.0 | 3.7 | 2.9 | 2.8 | 3.8 | 3.3 | e10 | 2.8 | 3.1 |
| 28 | e3.4 | 3.4 | 2.8 | 3.0 | 3.6 | 2.8 | 4.3 | 3.6 | 3.6 | e4.4 | 2.8 | 2.8 |
| 29 | 3.3 | 3.4 | e3.4 | 3.0 | 3.6 | 2.8 | 4.0 | 3.6 | 3.7 | 3.4 | 2.8 | 3.0 |
| 30 | 3.3 | 3.4 | 3.6 | 3.0 | --- | 2.7 | 3.8 | 3.6 | 3.6 | 3.4 | 4.4 | 2.8 |
| 31 | 3.3 | --- | 3.4 | 3.0 | --- | 2.6 | --- | 3.6 | --- | 3.4 | 2.8 | --- |
| Total | 102.7 | 90.6 | 105.3 | 95.8 | 103.3 | 106.1 | 93.9 | 117.7 | 110.5 | 130.5 | 101.7 | 91.8 |
| Mean | 3.31 | 3.02 | 3.40 | 3.09 | 3.56 | 3.42 | 3.13 | 3.80 | 3.68 | 4.21 | 3.28 | 3.06 |
| Max | 4.3 | 5.4 | 4.8 | 5.0 | 6.6 | 5.8 | 4.9 | 5.0 | 6.0 | 11 | 5.9 | 6.8 |
| Min | 2.5 | 2.4 | 2.5 | 2.4 | 2.4 | 2.6 | 2.4 | 2.7 | 3.3 | 3.4 | 2.8 | 2.5 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2008, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 1.75 | 1.61 | 1.81 | 1.84 | 1.74 | 1.92 | 1.84 | 1.82 | 1.76 | 1.75 | 1.72 | 1.79 |
| Max | 4.02 | 3.02 | 3.40 | 3.14 | 3.56 | 3.42 | 3.13 | 3.80 | 3.68 | 4.21 | 3.28 | 3.06 |
| (WY) | (2006) | (2008) | (2008) | (2006) | (2008) | (2008) | (2008) | (2008) | (2008) | (2008) | (2008) | (2008) |
| Min | 0.93 | 0.96 | 1.02 | 1.18 | 0.93 | 1.07 | 1.04 | 0.98 | 0.94 | 0.93 | 0.95 | 1.10 |
| (WY) | (2002) | (2002) | (1996) | (1997) | (1996) | (1995) | (1995) | (1995) | (1995) | (1993) | (1995) | (1995) |

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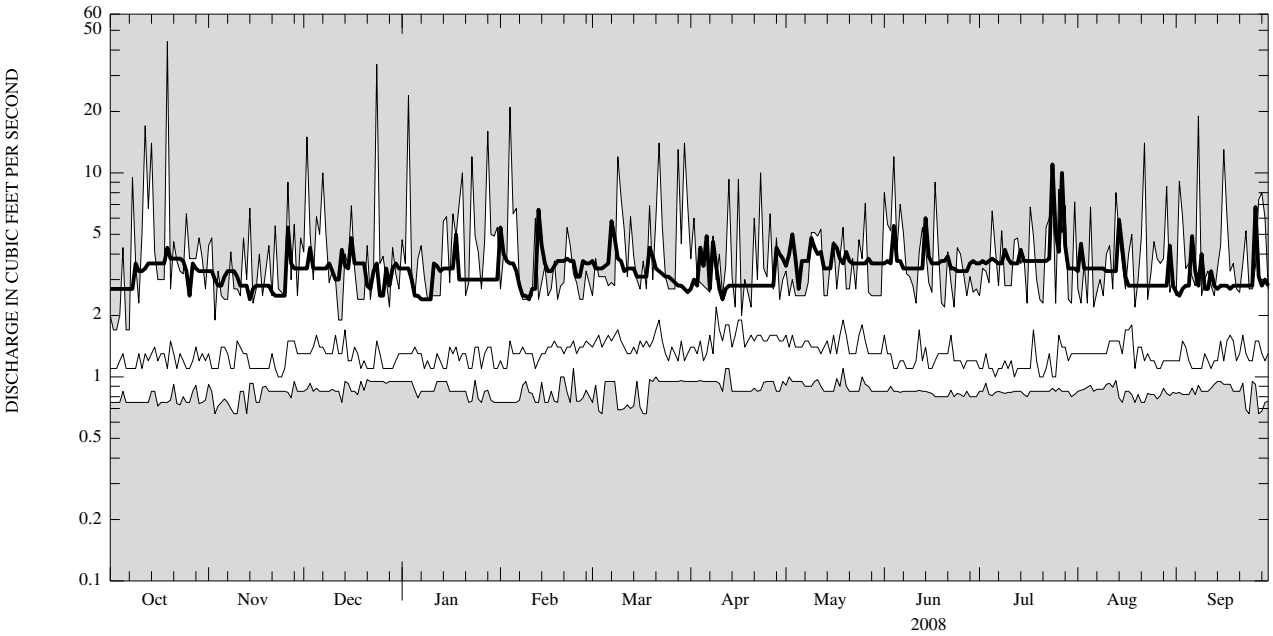
**SUMMARY STATISTICS**

| | Water Year 2008 | | Water Years 1993 - 2008 | |
|---|---|---|---|---|
| **Annual total** | 1,249.9 | | | |
| **Annual mean** | 3.42 | | 1.79 | |
| **Highest annual mean** | | | 3.42 | 2008 |
| **Lowest annual mean** | | | 1.19 | 2002 |
| **Highest daily mean** | 11 | Jul 24 | 44 | Oct 19, 1996 |
| **Lowest daily mean** | 2.4 | Nov 14 | 0.66 | Sep 24, 1995 |
| **Annual seven-day minimum** | 2.5 | Jan 4 | 0.73 | Sep 27, 1995 |
| **10 percent exceeds** | 4.1 | | 3.1 | |
| **50 percent exceeds** | 3.4 | | 1.3 | |
| **90 percent exceeds** | 2.7 | | 0.93 | |




CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.