

PHILADELPHIA COUNTY

395342075102101. Local number, PH 12.

LOCATION.--Lat 39°53'42", long 75°10'21", Hydrologic Unit 02040202, at Barracks and East Fourth Streets, Philadelphia.
Owner: U.S. Naval Base.

AQUIFER.--Middle Sand Unit of Potomac-Raritan-Magothy aquifer system of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 101 ft, cased to 93 ft, screened from 93-101 ft.

INSTRUMENTATION.--Data collection platform with 30-minute recording interval. Satellite telemetry at station.

DATUM.--Elevation of land-surface datum is 8.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.3 ft above land-surface datum. Prior to May 27, 1998, top of casing, 1.8 ft above land-surface datum.

REMARKS.--In addition to the daily maximum water level table shown below, daily minimum and mean water levels, since October 1994, are also available from the USGS Pennsylvania Water Science Center Office. Mean daily fluctuation caused by tidal loading, 0.20 ft.

PERIOD OF RECORD.--January 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Prior to October 2000, the extremes were based on extremes of the daily maximum depth below land-surface datum. Since that date, the extremes are based on the instantaneous depth below land-surface datum.

Highest water level, 10.65 ft below land-surface datum, Dec. 17, 18, 1996; lowest, 39.60 ft below land-surface datum, July 20, 1955.

EXTREMES FOR CURRENT YEAR.--Highest water level, 12.65 ft below land-surface datum, Sept. 29; lowest, 16.05 ft below land-surface datum, May 30.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
MAXIMUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 15.95 | 14.49 | 14.72 | 13.85 | 15.30 | 14.59 | 13.86 | 14.91 | 15.76 | 13.78 | 13.64 | 13.64 |
| 2 | 15.78 | 14.53 | 14.96 | 13.76 | 15.34 | 14.54 | 14.10 | 14.65 | 15.86 | 13.65 | 13.54 | 13.52 |
| 3 | 15.90 | 14.53 | 15.11 | 13.52 | 15.07 | 14.77 | 14.09 | 14.55 | 16.00 | 13.72 | 13.46 | 13.48 |
| 4 | 15.55 | 14.41 | 14.94 | 13.55 | 14.96 | 14.76 | 14.30 | 14.63 | 15.99 | 13.72 | 13.29 | 13.51 |
| 5 | 15.63 | 14.29 | 14.78 | 13.50 | 15.14 | 14.76 | 14.74 | 14.59 | 15.69 | 13.64 | 13.32 | 13.70 |
| 6 | 15.69 | 14.26 | 14.52 | 13.95 | 14.91 | 14.52 | 14.78 | 14.59 | 15.16 | 13.69 | 13.37 | 13.59 |
| 7 | 15.70 | 14.29 | 14.84 | 14.24 | 14.25 | 14.66 | 14.61 | 14.60 | 14.92 | 13.74 | 13.45 | 13.37 |
| 8 | 15.59 | 14.78 | 15.03 | 14.32 | 14.89 | 14.62 | 14.38 | 14.79 | 14.81 | 13.66 | 13.56 | 13.35 |
| 9 | 15.55 | 14.93 | 15.07 | 14.20 | 14.88 | 14.68 | 14.53 | 14.61 | 14.55 | 13.82 | 13.58 | 13.21 |
| 10 | 15.57 | 14.86 | 14.92 | 14.24 | 14.62 | 14.67 | 14.61 | 14.39 | 14.25 | 13.91 | 13.51 | 13.59 |
| 11 | 15.49 | 14.70 | 14.48 | 14.32 | 14.70 | 14.28 | 14.71 | 14.58 | 14.18 | 13.96 | 13.38 | 13.69 |
| 12 | 15.29 | 14.42 | 14.99 | 14.18 | 14.72 | 14.09 | 14.77 | 14.73 | 14.16 | 13.93 | 13.43 | 13.60 |
| 13 | 15.33 | 14.72 | 15.22 | 14.18 | 14.54 | 14.75 | 14.54 | 14.89 | 14.17 | 13.53 | 13.42 | 13.57 |
| 14 | 15.33 | 15.16 | 15.10 | 14.34 | 14.51 | 14.81 | 14.19 | 14.93 | 13.93 | 13.37 | 13.55 | 13.66 |
| 15 | 15.33 | 15.34 | 14.80 | 14.30 | 14.66 | 14.53 | 14.63 | 14.76 | 13.92 | 13.32 | 13.51 | 13.62 |
| 16 | 15.55 | 15.31 | 14.90 | 14.78 | 14.85 | 14.63 | 14.82 | 15.01 | 13.97 | 13.49 | 13.47 | 13.45 |
| 17 | 15.62 | 15.10 | 14.68 | 14.90 | 14.90 | 14.25 | 14.80 | 15.16 | 13.88 | 13.61 | 13.36 | 13.40 |
| 18 | 15.50 | 15.10 | 14.38 | 14.60 | 14.59 | 14.18 | 14.83 | 15.05 | 13.75 | 13.61 | 13.29 | 13.34 |
| 19 | 15.31 | 14.62 | 14.50 | 14.55 | 14.31 | 14.36 | 14.79 | 15.16 | 13.74 | 13.60 | 13.28 | 13.40 |
| 20 | 15.46 | 14.54 | 14.54 | 14.87 | 14.38 | 14.31 | 14.79 | 15.28 | 13.85 | 13.74 | 13.32 | 13.33 |
| 21 | 15.03 | 14.58 | 14.60 | 15.03 | 14.24 | 13.96 | 14.79 | 15.25 | 13.78 | 13.75 | 13.29 | 13.24 |
| 22 | 14.97 | 14.68 | 14.25 | 14.82 | 14.67 | 14.37 | 14.73 | 15.27 | 13.66 | 13.74 | 13.44 | 13.25 |
| 23 | 15.26 | 14.72 | 14.15 | 14.82 | 14.73 | 14.43 | 14.80 | 15.28 | 13.71 | 13.75 | 13.32 | 13.31 |
| 24 | 15.56 | 14.55 | 13.88 | 14.66 | 14.55 | 14.41 | 14.92 | 15.29 | 13.73 | 13.97 | 13.44 | 13.32 |
| 25 | 15.61 | 14.68 | 13.70 | 14.79 | 14.59 | 14.41 | 14.93 | 15.47 | 13.72 | 13.97 | 13.50 | 13.25 |
| 26 | 15.37 | 14.75 | 13.76 | 14.59 | 14.63 | 14.34 | 14.69 | 15.49 | 13.59 | 13.86 | 13.49 | 13.30 |
| 27 | 14.91 | 14.68 | 13.88 | 14.30 | 14.59 | 14.16 | 14.37 | 15.54 | 13.77 | 13.73 | 13.49 | 13.33 |
| 28 | 14.70 | 14.46 | 13.86 | 14.36 | 14.60 | 14.05 | 14.82 | 15.57 | 13.78 | 13.60 | 13.44 | 13.20 |
| 29 | 14.42 | 14.56 | 13.64 | 14.55 | 14.64 | 14.01 | 14.92 | 15.97 | 13.81 | 13.70 | 13.48 | 12.94 |
| 30 | 14.57 | 14.65 | 13.66 | 14.66 | --- | 13.88 | 14.93 | 16.05 | 13.83 | 13.70 | 13.49 | 12.93 |
| 31 | 14.55 | --- | 13.80 | 15.07 | --- | 13.93 | --- | 15.81 | --- | 13.66 | 13.60 | --- |
| MEAN | 15.36 | 14.69 | 14.51 | 14.38 | 14.72 | 14.41 | 14.63 | 15.06 | 14.33 | 13.71 | 13.44 | 13.40 |
| MAX | 15.95 | 15.34 | 15.22 | 15.07 | 15.34 | 14.81 | 14.93 | 16.05 | 16.00 | 13.97 | 13.64 | 13.70 |
| MIN | 14.42 | 14.26 | 13.64 | 13.50 | 14.24 | 13.88 | 13.86 | 14.39 | 13.59 | 13.32 | 13.28 | 12.93 |

