

Water-Data Report 2013

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA

Lower Susquehanna Basin
Lower Susquehanna-Swatara Subbasin

LOCATION.--Lat 40°15'17", long 76°53'11" referenced to North American Datum of 1927, Dauphin County, PA, Hydrologic Unit 02050305, on east bank of City Island, 60 ft downstream from Market Street bridge in Harrisburg, 3,670 ft upstream from sanitary dam, and 1.7 mi upstream from Paxton Creek.

DRAINAGE AREA.--24,100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1890 to current year.

REVISED RECORDS.--WSP 711: 1929. WSP 1502: 1891-1923, 1926(M), 1928. WSP 1702: 1953 (total runoff in inches), 1958 (1957 calendar year mean discharge).

GAGE.--Water-stage recorder. Concrete control since Aug 29, 1916. Datum of gage is 290.01 ft above National Geodetic Vertical Datum of 1929. Prior to Oct 1, 1928, nonrecording gage at Walnut Street Bridge 600 ft upstream, and Oct 1, 1928, to Aug 31, 1975, water-stage recorder at site 3,170 ft downstream, all gages at same datum. Satellite and landline telemetry at station.

COOPERATION.--Funding for the operation of this station is provided by Exelon Generation, the Pennsylvania Department of Environmental Protection, and the U. S. Geological Survey through the Cooperative Water Program and the National Streamflow Information Program.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by 15 flood-control reservoirs which have a combined capacity of 1,571,000 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known during period 1786 to 1890, 26.8 ft at Walnut Street bridge, Jun 2, 1889, discharge, 654,000 ft³/s.

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|---------|---------|-----------|-----------|-----------|-----------|-----------|---------|---------|-----------|---------|---------|
| 1 | 11,800 | 108,000 | 11,900 | 37,100 | 158,000 | 34,900 | 32,200 | 32,100 | 28,200 | 64,100 | 13,700 | 8,960 |
| 2 | 11,800 | 93,800 | 11,600 | 34,500 | 188,000 | 35,800 | 34,700 | 29,300 | 30,700 | 65,200 | 13,800 | 9,950 |
| 3 | 12,100 | 70,600 | 11,300 | 32,700 | 136,000 | 36,800 | 38,600 | 27,300 | 32,600 | 85,300 | 12,700 | 9,400 |
| 4 | 12,100 | 53,200 | 11,100 | 30,800 | 99,400 | 34,600 | 45,100 | 25,800 | 26,500 | 98,400 | 12,000 | 9,860 |
| 5 | 12,000 | 43,200 | 10,900 | 28,400 | 80,200 | 31,000 | 45,100 | 23,500 | 21,600 | 79,900 | 10,900 | 10,200 |
| 6 | 11,400 | 37,000 | 10,800 | 27,600 | 64,700 | 28,300 | 40,800 | 21,500 | 18,600 | 65,200 | 10,200 | 18,300 |
| 7 | 11,000 | 32,700 | 11,100 | 26,200 | 56,100 | 26,300 | 37,000 | 19,900 | 17,800 | 53,100 | 10,100 | 20,600 |
| 8 | 10,200 | 28,200 | 11,600 | 25,800 | 49,200 | 25,000 | 34,600 | 19,300 | 17,100 | 43,100 | 10,100 | 16,800 |
| 9 | 9,610 | 25,000 | 13,600 | 25,600 | 43,100 | 23,300 | 32,800 | 26,900 | 16,300 | 36,800 | 9,620 | 13,100 |
| 10 | 8,940 | 22,500 | 16,300 | 24,900 | 38,700 | 21,900 | 31,600 | 29,800 | 17,000 | 34,900 | 9,360 | 10,900 |
| 11 | 8,440 | 20,500 | 19,900 | 24,400 | 35,200 | 21,500 | 32,100 | 33,100 | 25,700 | 34,000 | 10,300 | 9,260 |
| 12 | 8,130 | 18,700 | 26,900 | 25,700 | 33,300 | 22,400 | 37,900 | 38,500 | 30,100 | 33,800 | 29,900 | 8,910 |
| 13 | 7,770 | 18,400 | 34,500 | 31,100 | 32,900 | 30,400 | 70,900 | 46,000 | 27,400 | 33,400 | 31,900 | 8,650 |
| 14 | 7,550 | 18,900 | 40,400 | 42,500 | 31,700 | 76,400 | 92,100 | 43,800 | 32,900 | 31,000 | 24,200 | 9,100 |
| 15 | 7,310 | 19,300 | 37,300 | 75,500 | 31,000 | 99,000 | 91,500 | 38,300 | 49,600 | 26,400 | 20,400 | 11,100 |
| 16 | 7,130 | 19,300 | 32,900 | 108,000 | 30,700 | 87,700 | 78,600 | 34,400 | 52,200 | 22,100 | 17,600 | 14,500 |
| 17 | 7,120 | 20,400 | 29,400 | 100,000 | 30,000 | 71,700 | 67,200 | 30,900 | 54,200 | 19,100 | 15,900 | 14,300 |
| 18 | 7,040 | 20,500 | 27,800 | 83,500 | 28,500 | 59,800 | 59,300 | 27,600 | 48,500 | 16,700 | 16,200 | 12,500 |
| 19 | 7,450 | 19,200 | 33,600 | 67,800 | 26,700 | 53,500 | 57,000 | 24,700 | 38,700 | 15,100 | 13,900 | 11,100 |
| 20 | 7,660 | 17,700 | 59,300 | 58,300 | 24,900 | 48,800 | 58,100 | 22,100 | 31,200 | 13,700 | 11,900 | 9,870 |
| 21 | 10,200 | 16,600 | 88,600 | 52,900 | e23,000 | 46,200 | 61,700 | 20,200 | 26,300 | 12,600 | 10,600 | 8,970 |
| 22 | 12,900 | 15,600 | 124,000 | e46,000 | e22,000 | 43,400 | 62,900 | 18,700 | 22,700 | 12,300 | 10,400 | 8,570 |
| 23 | 12,600 | 15,100 | 130,000 | e39,000 | 21,000 | 40,100 | 58,900 | 17,800 | 19,800 | 12,200 | 9,110 | 8,060 |
| 24 | 13,300 | 14,400 | 108,000 | e32,000 | 19,500 | 37,300 | 53,000 | 18,600 | 17,200 | 12,100 | 8,720 | 8,020 |
| 25 | 14,300 | 13,900 | 82,500 | e25,000 | 19,000 | 35,200 | 47,900 | 18,300 | 15,600 | 11,800 | 8,150 | 8,470 |
| 26 | 13,600 | 13,500 | 66,100 | e22,000 | 18,600 | 33,900 | 44,700 | 18,500 | 15,300 | 12,400 | 7,520 | 8,630 |
| 27 | 13,700 | 13,300 | 58,200 | e22,000 | 20,500 | 33,000 | 41,300 | 21,300 | 14,800 | 24,300 | 7,210 | 9,560 |
| 28 | 14,600 | 13,000 | 53,200 | e21,500 | 31,000 | 32,400 | 38,500 | 21,700 | 22,600 | 20,100 | 7,080 | 8,730 |
| 29 | 15,600 | 12,700 | 48,000 | e23,500 | --- | 31,800 | 35,900 | 20,200 | 37,200 | 16,800 | 7,110 | 7,750 |
| 30 | 52,200 | 12,300 | 43,100 | e26,500 | --- | 31,300 | 33,400 | 23,500 | 55,700 | 15,000 | 7,060 | 7,130 |
| 31 | 98,800 | --- | 39,700 | 51,600 | --- | 31,300 | --- | 27,100 | --- | 13,800 | 6,870 | --- |
| Total | 458,350 | 847,500 | 1,303,600 | 1,272,400 | 1,392,900 | 1,265,000 | 1,495,400 | 820,700 | 864,100 | 1,034,700 | 394,510 | 321,250 |
| Mean | 14,790 | 28,250 | 42,050 | 41,050 | 49,750 | 40,810 | 49,850 | 26,470 | 28,800 | 33,380 | 12,730 | 10,710 |
| Max | 98,800 | 108,000 | 130,000 | 108,000 | 188,000 | 99,000 | 92,100 | 46,000 | 55,700 | 98,400 | 31,900 | 20,600 |
| Min | 7,040 | 12,300 | 10,800 | 21,500 | 18,600 | 21,500 | 31,600 | 17,800 | 14,800 | 11,800 | 6,870 | 7,130 |
| Cfsm | 0.61 | 1.17 | 1.74 | 1.70 | 2.06 | 1.69 | 2.07 | 1.10 | 1.20 | 1.38 | 0.53 | 0.44 |
| In. | 0.71 | 1.31 | 2.01 | 1.96 | 2.15 | 1.95 | 2.31 | 1.27 | 1.33 | 1.60 | 0.61 | 0.50 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2013, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| Mean | 18,240 | 27,240 | 36,020 | 38,030 | 40,540 | 73,910 | 71,410 | 44,550 | 26,400 | 15,450 | 11,970 | 13,340 |
| Max | 75,150 | 83,540 | 98,870 | 103,100 | 153,500 | 216,100 | 217,000 | 103,900 | 166,800 | 71,450 | 44,960 | 122,200 |
| (WY) | (1977) | (1927) | (1997) | (1996) | (1891) | (1936) | (1993) | (1894) | (1972) | (1902) | (1994) | (2011) |
| Min | 2,356 | 2,303 | 3,835 | 3,876 | 9,122 | 26,080 | 20,380 | 12,750 | 6,226 | 3,315 | 2,878 | 2,066 |
| (WY) | (1931) | (1931) | (1931) | (1931) | (1931) | (2006) | (1946) | (1941) | (1999) | (1965) | (1930) | (1964) |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

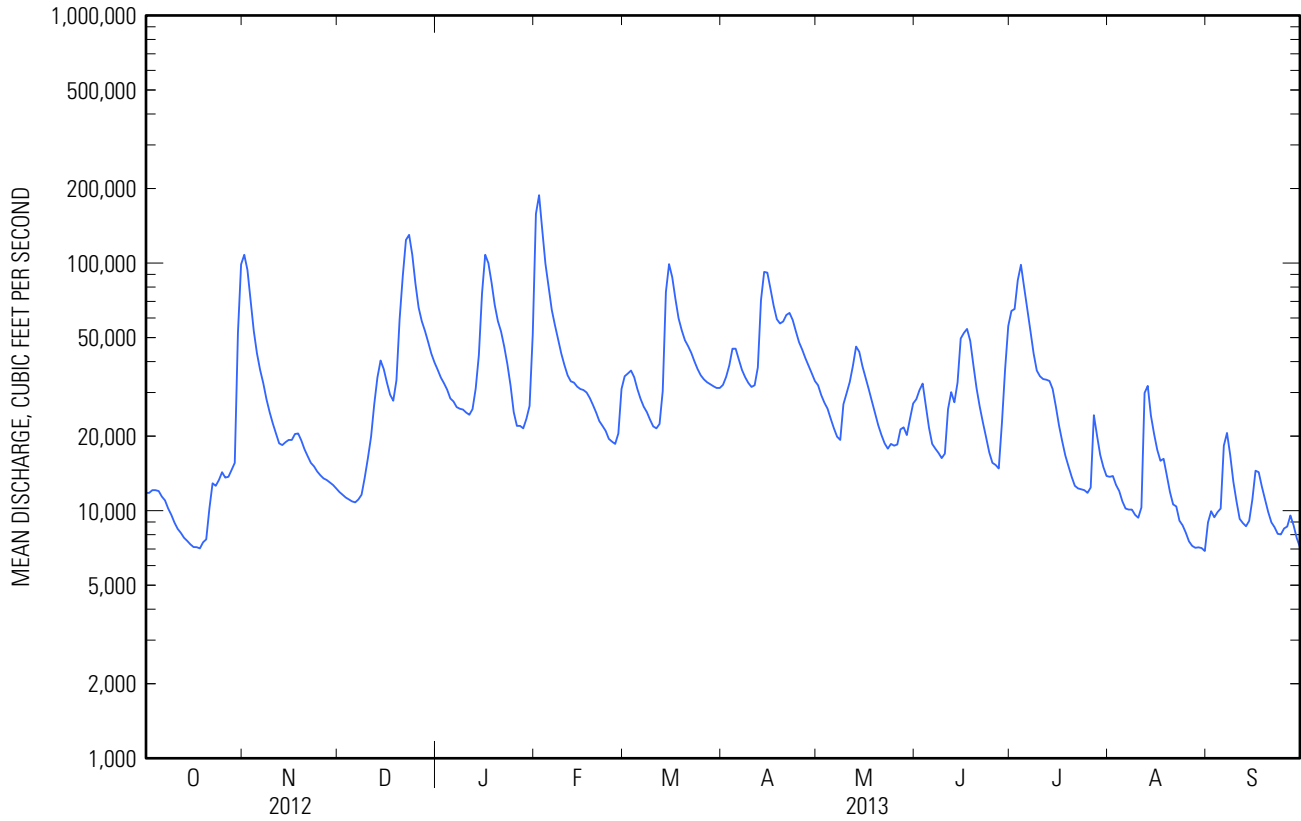
SUMMARY STATISTICS

| | Calendar Year 2012 | | Water Year 2013 | | Water Years 1891 - 2013 | |
|---------------------------------|--------------------|--------|-----------------|--------|--|--------------|
| Annual total | 10,283,320 | | 11,470,410 | | | |
| Annual mean | 28,100 | | 31,430 | | 34,720 | |
| Highest annual mean | | | | | 61,120 | 2011 |
| Lowest annual mean | | | | | 16,940 | 1965 |
| Highest daily mean | 130,000 | Dec 23 | 188,000 | Feb 2 | 954,000 | Jun 24, 1972 |
| Lowest daily mean | 5,650 | Sep 1 | 6,870 | Aug 31 | ^a 1,700 ^b Nov 29, 1930 | |
| Annual seven-day minimum | 5,940 | Jul 13 | 7,290 | Aug 25 | 1,790 | Sep 17, 1964 |
| Maximum peak flow | | | 200,000 | Feb 2 | 1,020,000 | Jun 24, 1972 |
| Maximum peak stage | | | 12.74 | Feb 2 | ^c 32.57Jun 24, 1972 | |
| Instantaneous low flow | | | 6,660 | Aug 31 | ^a 1,600 ^b Nov 29, 1930 | |
| Annual runoff (cfsm) | 1.17 | | 1.30 | | 1.44 | |
| Annual runoff (inches) | 15.87 | | 17.71 | | 19.57 | |
| 10 percent exceeds | 57,800 | | 63,400 | | 79,400 | |
| 50 percent exceeds | 21,800 | | 24,900 | | 20,800 | |
| 90 percent exceeds | 7,110 | | 9,500 | | 5,500 | |

^a Result of freezeup.

^b Minimum daily discharge since construction of sanitary dam and not affected by freezeup is 1,700 ft³/s, Sep 18, 1964.

^c From floodmark.



01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944 to 1953, 1956 to 1995, 2008, 2009, 2013.

PERIOD OF DAILY RECORD.—

ON EASTERN BANK OF CITY ISLAND:

WATER TEMPERATURE: October 1945 to August 1979; May 2008 to September 2011 (seasonal), October 2011 to current year.

SPECIFIC CONDUCTANCE: May 1974 to August 1979; May 2008 to September 2011 (seasonal), October 2011 to current year.

DISSOLVED OXYGEN: May 1974 to August 1979; May 2008 to September 2011 (seasonal), October 2011 to current year.

pH: May 1974 to June 1979; May 2008 to September 2011 (seasonal), October 2011 to current year.

IN EASTERN CHANNEL AT WALNUT STREET BRIDGE:

WATER TEMPERATURE: July 2013 to current year (seasonal).

SPECIFIC CONDUCTANCE: July 2013 to current year (seasonal).

DISSOLVED OXYGEN: July 2013 to current year (seasonal).

pH: July 2013 to current year (seasonal).

INSTRUMENTATION.--Water-quality monitor interfaced with a data collection platform with 30-minute recording interval.

REMARKS.—

ON EASTERN BANK OF CITY ISLAND: Water temperature, pH, and dissolved oxygen records rated good. Specific conductance records rated fair, except those for the period January 10 to May 1, which are poor. Daily values tables for data collected at the City Island location appear on pages 12-23 of this report.

IN EASTERN CHANNEL AT WALNUT STREET BRIDGE: Water temperature, Specific conductance, pH, and dissolved oxygen records rated good. Daily values tables for data collected at the Walnut Street Bridge location appear on pages 24-35 of this report.

Analyses for pH, water temperature, specific conductance, and dissolved oxygen were performed on site. Inorganic sample analyses were performed at the Pennsylvania Department of Environmental Protection laboratory in Harrisburg, Pa. Occasionally, values for filtered parameters may exceed values for the corresponding unfiltered parameter. These results are within the limits of analytical precision and methods.

COOPERATION.--Continuous daily water quality records were collected by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection.

EXTREMES FOR PERIOD OF DAILY RECORD.—

ON EASTERN BANK OF CITY ISLAND:

SPECIFIC CONDUCTANCE: Maximum, 517 microsiemens/cm, Mar 4, 1978; minimum, 77 microsiemens/cm, Sep 27, 1975. Higher maximum values were published, but are considered unreliable.

pH: Maximum, 10.4, Aug 27, 1975; minimum, 6.1, May 17, 1978.

WATER TEMPERATURE: Maximum, 35.0°C, Jul 22, 2011; minimum, freezing point on many days during Jan and Feb, 1977.

DISSOLVED OXYGEN: Maximum, 15.2 mg/L, Jan 23, 24, 1976; minimum 3.2 mg/L, Jul 8, 2011.

EXTREMES FOR CURRENT YEAR.--

ON EASTERN BANK OF CITY ISLAND:

SPECIFIC CONDUCTANCE: Maximum, 317 microsiemens/cm, Sept. 4; minimum, 106 microsiemens/cm, Dec. 22.

WATER TEMPERATURE: Maximum, 32.7°C, July 18; minimum, 0.0°C, on several days.

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

| Date | Sample start time | Discharge, instantaneous, ft ³ /s (00061) | Dissolved oxygen, water, unfiltered, mg/L (00300) | pH, water, unfiltered, field, standard units (00400) | pH, water, unfiltered, laboratory, standard units (00403) | Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095) | Specific conductance, water, unfiltered, µS/cm at 25°C (00095) | Temperature, water, °C (00010) | Dissolved solids dried at 180°C, water, filtered, mg/L (70300) | Hardness, water, mg/L as CaCO ₃ (00900) |
|------------|-------------------|--|---|--|---|--|--|--------------------------------|--|--|
| 10-25-2012 | 1600 | 14,300 | 9.7 | 8.5 | 8.1 | 261 | 250 | 15.9 | 164 | 93 |
| 11-29-2012 | 1230 | 12,700 | 12.8 | 9.2 | 7.9 | 247 | 252 | 3.5 | 160 | 90 |
| 12-27-2012 | 1230 | 58,100 | 13.6 | 8.9 | 7.5 | 145 | 146 | 1.8 | 102 | 48 |
| 01-09-2013 | 1145 | 25,600 | 15.7 | 9.6 | 7.4 | 215 | 209 | 1.2 | 146 | 79 |
| 02-01-2013 | 1200 | 162,000 | 12.4 | 7.4 | 7.4 | 175 | 170 | .5 | 112 | -- |
| 02-13-2013 | 1215 | 32,800 | 13.5 | 7.6 | 7.6 | 201 | 225 | 2.6 | 126 | -- |
| 03-01-2013 | 1000 | 35,000 | 12.9 | 6.1 | 7.5 | 235 | 281 | 3.9 | 36 | -- |
| 03-12-2013 | 0900 | 22,000 | 12.5 | 8.2 | 8.0 | 252 | 236 | 7.5 | 148 | -- |
| 06-15-2013 | 1030 | 50,500 | 8.4 | 7.9 | 7.9 | 216 | 222 | 21.7 | 142 | 79 |
| 07-27-2013 | 1000 | 25,600 | 8.5 | 8.1 | 8.1 | 248 | 225 | 25.9 | 178 | 95 |
| 09-05-2013 | 1230 | 9,840 | 8.2 | 8.6 | 8.5 | 311 | 315 | 24.9 | 202 | 110 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

| Date | Sample start time | Suspended solids, water, unfiltered, mg/L (00530) | Calcium, water, unfiltered, recoverable, mg/L (00916) | Magnesium, water, unfiltered, recoverable, mg/L (00927) | Sodium, water, unfiltered, recoverable, mg/L (00929) | ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (00417) | Bromide, water, filtered, mg/L (71870) | Chloride, water, filtered, mg/L (00940) | Sulfate, water, filtered, mg/L (00945) | Ammonia, water, filtered, mg/L as N (00608) |
|------------|-------------------|---|---|---|--|--|--|---|--|---|
| 10-25-2012 | 1600 | 34 | 25.2 | 7.4 | 12.6 | 58 | < 0.025 | 20.8 | 36.9 | 0.020 |
| 11-29-2012 | 1230 | < 5 | 23.1 | 7.8 | 8.3 | 60 | < 0.025 | 14.2 | 32.9 | < .020 |
| 12-27-2012 | 1230 | 12 | 13.4 | 3.5 | 6.1 | 31 | < 0.025 | 9.4 | 18.2 | < .020 |
| 01-09-2013 | 1145 | 6 | 22.1 | 5.7 | 9.4 | 49 | M | 14.9 | 30.7 | < .020 |
| 02-01-2013 | 1200 | 132 | 15.3 | 4.4 | 10.2 | 33 | < 0.010 | 17.9 | 19.8 | .060 |
| 02-13-2013 | 1215 | 14 | 19.4 | 5.3 | 8.6 | 44 | M | 14.4 | 25.8 | .030 |
| 03-01-2013 | 1000 | 24 | 22.8 | 6.3 | 11.4 | 49 | M | 21.7 | 29.4 | .050 |
| 03-12-2013 | 0900 | < 5 | 23.3 | 6.3 | 13.2 | 52 | M | 23.6 | 32.0 | < .007 |
| 06-15-2013 | 1030 | 56 | 22.5 | 5.5 | 12.0 | 53 | M | 19.3 | 21.8 | < .007 |
| 07-27-2013 | 1000 | 10 | 25.5 | 7.6 | 10.9 | 54 | M | 17.9 | 40.2 | .022 |
| 09-05-2013 | 1230 | 28 | 28.3 | 8.9 | 17.1 | 75 | M | 25.0 | 35.6 | .021 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

| Date | Sample start time | Ammonia, water, unfiltered, mg/L as N (00610) | Nitrate plus nitrite, water, filtered, mg/L as N (00631) | Nitrate plus nitrite, water, unfiltered, mg/L as N (00630) | Orthophosphate, water, filtered, mg/L as P (00671) | Orthophosphate, water, unfiltered, mg/L as P (70507) | Phosphorus, water, filtered, mg/L as P (00666) | Phosphorus, water, unfiltered, mg/L as P (00665) | Total nitrogen, water, filtered, mg/L (00602) |
|------------|-------------------|---|--|--|--|--|--|--|---|
| 10-25-2012 | 1600 | 0.020 | 0.460 | 0.470 | < .010 | < .01 | < .010 | 0.037 | 0.56 |
| 11-29-2012 | 1230 | < .020 | .810 | .800 | < .010 | < .01 | < .010 | .016 | .85 |
| 12-27-2012 | 1230 | .020 | .800 | .770 | .010 | .02 | .011 | .034 | .96 |
| 01-09-2013 | 1145 | < .020 | .950 | .940 | < .010 | < .01 | < .010 | .020 | .99 |
| 02-01-2013 | 1200 | .060 | 1.02 | 1.04 | .015 | .02 | .022 | .179 | 1.2 |
| 02-13-2013 | 1215 | .030 | .960 | .971 | .009 | .01 | .012 | .025 | 1.1 |
| 03-01-2013 | 1000 | .050 | 1.40 | 1.40 | .028 | .03 | .033 | .076 | 1.5 |
| 03-12-2013 | 0900 | < .007 | .748 | .755 | .003 | M | .004 | .017 | .88 |
| 06-15-2013 | 1030 | .015 | .827 | .827 | .010 | .01 | .013 | .094 | .94 |
| 07-27-2013 | 1000 | .021 | .239 | .239 | .003 | M | .007 | .022 | .34 |
| 09-05-2013 | 1230 | .021 | .213 | .219 | .027 | .01 | .007 | .029 | .46 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

| Date | Sample start time | Total nitrogen, water, unfiltered, mg/L (00600) | Aluminum, water, unfiltered, recoverable, µg/L (01105) | Barium, water, unfiltered, recoverable, µg/L (01007) | Copper, water, unfiltered, recoverable, µg/L (01042) | Iron, water, unfiltered, recoverable, µg/L (01045) | Lead, water, unfiltered, recoverable, µg/L (01051) | Manganese, water, unfiltered, recoverable, µg/L (01055) | Nickel, water, unfiltered, recoverable, µg/L (01067) | Strontium, water, unfiltered, recoverable, micrograms per liter (01082) |
|------------|-------------------|---|--|--|--|--|--|---|--|---|
| 10-25-2012 | 1600 | 0.70 | 300 | M | < 4 | 560 | M | 130 | < 50 | 170 |
| 11-29-2012 | 1230 | .86 | < 200 | M | < 4 | 280 | < 1.0 | 50 | < 50 | 200 |
| 12-27-2012 | 1230 | .98 | 400 | M | < 4 | 780 | < 1.0 | 70 | < 50 | 70 |
| 01-09-2013 | 1145 | 1.0 | < 200 | M | < 4 | 240 | < 1.0 | 50 | < 50 | 120 |
| 02-01-2013 | 1200 | 1.6 | 2,800 | M | M | 5,500 | M | 550 | < 13.7856 | 80 |
| 02-13-2013 | 1215 | 1.2 | 200 | M | M | 400 | M | 70 | < 13.7856 | 120 |
| 03-01-2013 | 1000 | 1.6 | 1,200 | M | M | 920 | M | 100 | < 13.7856 | 160 |
| 03-12-2013 | 0900 | .95 | 100 | M | M | 250 | M | 100 | < 13.7856 | 130 |
| 06-15-2013 | 1030 | 1.3 | 1,000 | M | M | 2,470 | M | 300 | < 13.7856 | 90 |
| 07-27-2013 | 1000 | .45 | 200 | M | M | 520 | M | 80 | < 13.7856 | 150 |
| 09-05-2013 | 1230 | .54 | 600 | M | M | 850 | M | 160 | < 13.7856 | 190 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 5

[ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; M, presence verified but not quantified]

| Date | Sample start time | Zinc, water, unfiltered, recoverable, µg/L (01092) | Boron, water, unfiltered, recoverable, micrograms per liter (01022) | Selenium, water, unfiltered, µg/L (01147) | Organic carbon, water, unfiltered, mg/L (00680) | Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331) | Suspended sediment concentration, mg/L (80154) |
|------------|-------------------|--|---|---|---|--|--|
| 10-25-2012 | 1600 | < 10 | < 200 | < 7 | 2.9 | -- | -- |
| 11-29-2012 | 1230 | < 10 | < 200 | < 7 | 1.5 | -- | -- |
| 12-27-2012 | 1230 | 20 | < 200 | < 7 | 2.4 | -- | -- |
| 01-09-2013 | 1145 | 10 | < 200 | < 7 | 1.5 | -- | -- |
| 02-01-2013 | 1200 | 40 | 20 | < 0.32605 | 4.5 | 90 | 169 |
| 02-13-2013 | 1215 | < 5.1325 | 20 | < 0.32605 | 1.5 | -- | -- |
| 03-01-2013 | 1000 | 20 | 60 | < 0.32605 | 2.9 | -- | 17 |
| 03-12-2013 | 0900 | 10 | 20 | < 0.32605 | 1.7 | -- | -- |
| 06-15-2013 | 1030 | 20 | 20 | < 0.32605 | 3.7 | 90 | 61 |
| 07-27-2013 | 1000 | M | 40 | M | 2.3 | 82 | 17 |
| 09-05-2013 | 1230 | 20 | 40 | M | 2.6 | -- | -- |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Discharge, instantaneous, ft ³ /s (00061) | Dissolved oxygen, water, unfiltered, mg/L (00300) | pH, water, unfiltered, field, standard units (00400) | Specific conductance, water, unfiltered, µS/cm at 25°C (00095) | Temperature, water, °C (00010) | alpha-HCH-d6, surrogate, water, filtered (0.7 micron glass fiber filter), percent recovery (91065) | Diazinon-d10, surrogate, water, filtered (0.7 micron glass fiber filter), percent recovery (91063) | 2,6-Diethyl-aniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660) | 2-Chloro-4-isopropyl-amino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040) |
|------------|-------------------|--|---|--|--|--------------------------------|--|--|---|---|
| 03-12-2013 | 0900 | 22,000 | 12.5 | 8.2 | 236 | 7.5 | 90.8 | 73.4 | < .0060 | E .009 |
| 03-14-2013 | 1000 | 74,100 | 13.0 | 8.1 | 232 | 5.2 | 92.1 | 80.3 | < .0060 | E .010 |
| 04-11-2013 | 1000 | 32,000 | 10.5 | 8.0 | 190 | 15.6 | 83.5 | 73.6 | < .0060 | E .008 |
| 04-15-2013 | 1030 | 92,900 | 12.5 | 7.6 | 167 | 9.9 | 85.5 | 70.6 | < .0060 | E .005 |
| 05-13-2013 | 0915 | 46,500 | 9.0 | 7.7 | 188 | 15.3 | 95.4 | 70.4 | < .0060 | E .022 |
| 06-06-2013 | 0930 | 18,600 | 8.0 | 8.7 | 181 | 22.3 | 95.6 | 80.0 | < .0060 | E .020 |
| 06-17-2013 | 1000 | 54,800 | 8.0 | 7.6 | 184 | 20.7 | 90.9 | 84.0 | < .0060 | E .026 |
| 07-10-2013 | 0900 | 35,000 | 6.7 | 7.8 | 183 | 25.6 | 95.0 | 75.1 | < .0060 | E .026 |
| 08-13-2013 | 0930 | 33,200 | 8.4 | 7.8 | 251 | 25.0 | 103 | 80.7 | < .0060 | E .015 |
| 08-15-2013 | 0900 | 20,400 | 7.2 | 7.7 | 185 | 21.5 | 107 | 88.9 | < .0060 | E .023 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Aceto-chlor, water, filtered, recoverable, µg/L (49260) | Alachlor, water, filtered, recoverable, µg/L (46342) | alpha-HCH, water, filtered, recoverable, µg/L (34253) | Atrazine, water, filtered, recoverable, µg/L (39632) | Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686) | Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673) | Butylate, water, filtered, recoverable, µg/L (04028) | Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680) |
|------------|-------------------|---|--|---|--|---|---|--|--|
| 03-12-2013 | 0900 | < .010 | < .008 | < .0040 | 0.009 | < .120 | < .014 | < .0040 | < .060 |
| 03-14-2013 | 1000 | < .010 | < .008 | < .0040 | .008 | < .120 | < .014 | < .0040 | < .060 |
| 04-11-2013 | 1000 | < .010 | < .008 | < .0040 | .008 | < .120 | < .014 | < .0040 | < .060 |
| 04-15-2013 | 1030 | < .010 | < .008 | < .0040 | .006 | < .120 | < .014 | < .0040 | < .060 |
| 05-13-2013 | 0915 | .011 | < .008 | < .0040 | .188 | < .120 | < .014 | < .0040 | < .060 |
| 06-06-2013 | 0930 | < .010 | < .008 | < .0040 | .061 | < .120 | < .014 | < .0040 | < .060 |
| 06-17-2013 | 1000 | .007 | < .008 | < .0040 | .095 | < .120 | < .014 | < .0040 | < .060 |
| 07-10-2013 | 0900 | < .010 | < .008 | < .0040 | .068 | < .120 | < .014 | < .0040 | < .060 |
| 08-13-2013 | 0930 | < .010 | < .008 | < .0040 | .022 | < .120 | < .014 | < .0040 | < .060 |
| 08-15-2013 | 0900 | < .010 | < .008 | < .0040 | .028 | < .120 | < .014 | < .0040 | < .060 |

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674) | Chlor-pyrifos, water, filtered, recoverable, µg/L (38933) | cis-Permeth-rin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687) | Cyanazine, water, filtered, recoverable, µg/L (04041) | DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682) | Desulfinyl-fipronil amide, water, filtered, recoverable, µg/L (62169) | Desulfinyl-fipronil, water, filtered, recoverable, µg/L (62170) | Diazinon, water, filtered, recoverable, µg/L (39572) | Dieldrin, water, filtered, recoverable, µg/L (39381) |
|------------|-------------------|--|---|---|---|--|---|---|--|--|
| 03-12-2013 | 0900 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 03-14-2013 | 1000 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 04-11-2013 | 1000 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 04-15-2013 | 1030 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 05-13-2013 | 0915 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 06-06-2013 | 0930 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 06-17-2013 | 1000 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 07-10-2013 | 0900 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 08-13-2013 | 0930 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |
| 08-15-2013 | 0900 | < .060 | < .0100 | < .010 | < .022 | < .0076 | < .029 | < .012 | < .0060 | < .008 |

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Disulfoton, | EPTC, | Ethal- | Ethoprop, | Fipronil sulfide, water, filtered, recoverable, µg/L (62167) | Fipronil sulfone, water, filtered, recoverable, µg/L (62168) | Fipronil, water, filtered, recoverable, µg/L (62166) | Fonofos, water, filtered, recoverable, µg/L (04095) | Lindane, water, filtered, recoverable, µg/L (39341) |
|------------|-------------------|--|--|--|--|--|--|--|---|---|
| | | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82677) | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82668) | fluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82663) | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82672) | | | | | |
| 03-12-2013 | 0900 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 03-14-2013 | 1000 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 04-11-2013 | 1000 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 04-15-2013 | 1030 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 05-13-2013 | 0915 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 06-06-2013 | 0930 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 06-17-2013 | 1000 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 07-10-2013 | 0900 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 08-13-2013 | 0930 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |
| 08-15-2013 | 0900 | < .040 | < .0056 | < .006 | < .016 | < .016 | < .024 | < .018 | < .0048 | < .0040 |

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WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Linuron, | Malathion, | Methyl parathion, | Metolachlor, | Metribuzin, | Molinate, | Napropamide, | p,p'-DDE, | Parathion, |
|------------|-------------------|--|--|--|--|--|--|--|--|--|
| | | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82666) | water, filtered, recoverable, µg/L (39532) | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82667) | water, filtered, recoverable, µg/L (39415) | water, filtered, recoverable, µg/L (82630) | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82671) | water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82684) | water, filtered, recoverable, µg/L (34653) | water, filtered, recoverable, µg/L (39542) |
| 03-12-2013 | 0900 | < .060 | < .016 | < .008 | 0.008 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 03-14-2013 | 1000 | < .060 | < .016 | < .008 | .009 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 04-11-2013 | 1000 | < .060 | < .016 | < .008 | .007 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 04-15-2013 | 1030 | < .060 | < .016 | < .008 | .005 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 05-13-2013 | 0915 | < .060 | < .016 | < .008 | .093 | .011 | < .0080 | < .010 | < .005 | < .020 |
| 06-06-2013 | 0930 | < .060 | < .016 | < .008 | .046 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 06-17-2013 | 1000 | < .060 | < .016 | < .008 | .068 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 07-10-2013 | 0900 | < .060 | < .016 | < .008 | .056 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 08-13-2013 | 0930 | < .060 | < .016 | < .008 | .012 | < .012 | < .0080 | < .010 | < .005 | < .020 |
| 08-15-2013 | 0900 | < .060 | < .016 | < .008 | .018 | < .012 | < .0080 | < .010 | < .005 | < .020 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

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WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Pebulate, | Pendi- | Phorate, | Prometon, | Propanil, | Propargite, | Propyz- | Simazine, | |
|------------|-------------------|-------------|-------------|-------------|-----------|-------------|-------------|-------------|-----------|-------|
| | | water, | methalin, | water, | | water, | water, | amide, | | |
| | | filtered | water, | water, | | filtered | water, | water, | | |
| | | (0.7 micron | (0.7 micron | (0.7 micron | | (0.7 micron | (0.7 micron | (0.7 micron | | |
| | | glass fiber | glass fiber | glass fiber | | glass fiber | glass fiber | glass fiber | | |
| | | filter), | filter), | filter), | | filter), | filter), | filter), | | |
| | | recover- | recover- | recover- | | recover- | recover- | recover- | | |
| | | able, | able, | able, | | able, | able, | able, | | |
| | | µg/L | µg/L | µg/L | | µg/L | µg/L | µg/L | | |
| | | (82669) | (82683) | (82664) | | (82679) | (82685) | (82676) | | |
| | | | | | | | | | | |
| 03-12-2013 | 0900 | <.0160 | <.012 | <.020 | <.012 | <.006 | <.010 | <.020 | <.0080 | <.006 |
| 03-14-2013 | 1000 | <.0160 | <.012 | <.020 | <.012 | <.006 | <.010 | <.020 | <.0080 | .003 |
| 04-11-2013 | 1000 | <.0160 | <.012 | <.020 | <.012 | <.006 | <.010 | <.020 | <.0080 | .003 |
| 04-15-2013 | 1030 | <.0160 | <.012 | <.020 | <.012 | <.006 | <.010 | <.020 | <.0080 | .003 |
| 05-13-2013 | 0915 | <.0160 | <.012 | <.020 | .005 | <.006 | <.010 | <.020 | <.0080 | .018 |
| 06-06-2013 | 0930 | <.0160 | <.012 | <.020 | .003 | <.006 | <.010 | <.020 | <.0080 | .006 |
| 06-17-2013 | 1000 | <.0160 | <.012 | <.020 | .003 | <.006 | <.010 | <.020 | <.0080 | .008 |
| 07-10-2013 | 0900 | <.0160 | <.012 | <.020 | .004 | <.006 | <.010 | <.020 | <.0080 | .005 |
| 08-13-2013 | 0930 | <.0160 | <.012 | <.020 | .004 | <.006 | <.010 | <.020 | <.0080 | .008 |
| 08-15-2013 | 0900 | <.0160 | <.012 | <.020 | .004 | <.006 | <.010 | <.020 | <.0080 | .007 |

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[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

| Date | Sample start time | Tebu- | Terbacil, | Terbufos, | Thioben- | Triallate, | Trifluralin, | Suspended sediment, | Suspended sediment |
|------------|-------------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------------|--------------------|
| | | thiuron, | water, | water, | carb, | water, | water, | | |
| | | filtered | filtered | filtered | filtered | filtered | filtered | | |
| | | (0.7 micron | (0.7 micron | (0.7 micron | (0.7 micron | (0.7 micron | (0.7 micron | sieve | |
| | | glass fiber | glass fiber | glass fiber | glass fiber | glass fiber | glass fiber | diameter, | |
| | | filter), | filter), | filter), | filter), | filter), | filter), | percent | |
| | | recover- | recover- | recover- | recover- | recover- | recover- | smaller | |
| | | able, | able, | able, | able, | able, | able, | than 0.0625 | |
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | mm | |
| | | (82670) | (82665) | (82675) | (82681) | (82678) | (82661) | (70331) | (80154) |
| | | | | | | | | | |
| 03-12-2013 | 0900 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | -- |
| 03-14-2013 | 1000 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | 77 | 43 |
| 04-11-2013 | 1000 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | -- |
| 04-15-2013 | 1030 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | 59 |
| 05-13-2013 | 0915 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | -- |
| 06-06-2013 | 0930 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | -- |
| 06-17-2013 | 1000 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | 63 |
| 07-10-2013 | 0900 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | -- |
| 08-13-2013 | 0930 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | 44 |
| 08-15-2013 | 0900 | <.028 | <.024 | <.018 | <.016 | <.0046 | <.018 | -- | -- |

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | Bisphenol A-d3, surrogate, NWQL Waste-water Compound Schedules (WCS), percent recovery (90735) | Decafluoro biphenyl, surrogate, NWQL Waste-water Compound Schedules (WCS), percent recovery (90737) | Fluoranthene-d10, surrogate, NWQL Waste-water Compound Schedules (WCS), percent recovery (90738) | Dichlorobenzene, solids, recoverable, dry weight, micro-grams per kilogram (63163) | Atrazine, solids, recoverable, dry weight, micro-grams per kilogram (63182) | Bromacil, solids, recoverable, dry weight, micro-grams per kilogram (63189) | Camphor, solids, recoverable, dry weight, micro-grams per kilogram (63192) | Carbazole, solids, recoverable, dry weight, micro-grams per kilogram (63194) | Chlorpyrifos, solids, recoverable, dry weight, micro-grams per kilogram (63195) |
|------------|-------------------|--|---|--|--|---|---|--|--|---|
| 05-21-2013 | 1745 | 50 | 24 | 61 | < 62 | < 120 | < 620 | < 60 | 10 | < 60 |
| 05-22-2013 | 1315 | 48 | 21 | 73 | M | < 90 | < 430 | < 40 | 10 | < 40 |
| 05-22-2013 | 1430 | 45 | 16 | 53 | < 44 | < 90 | < 440 | < 40 | 10 | < 40 |
| 08-05-2013 | 1445 | 58 | 26 | 78 | M | < 100 | < 520 | < 50 | M | < 50 |
| 08-05-2013 | 1530 | 62 | 25 | 92 | M | M | < 500 | < 50 | M | < 50 |
| 08-05-2013 | 1531 | 63 | 22 | 83 | E 14 | < 100 | < 500 | < 50 | 10 | < 50 |
| 08-05-2013 | 1715 | 30 | 19 | 76 | M | < 140 | < 700 | M | 50 | < 70 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

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[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | Diazinon, solids, recoverable, dry weight, micro-grams per kilogram (63198) | Metolachlor, solids, recoverable, dry weight, micro-grams per kilogram (63218) | N,N-Diethyl-m-toluamide (DEET), solids, recoverable, dry weight, micro-grams per kilogram (63219) | p-Cresol, solids, recoverable, dry weight, micro-grams per kilogram (63222) | Prometon, solids, recoverable, dry weight, micro-grams per kilogram (63226) | 1-Methylnaphthalene, solids, recoverable, dry weight, micro-grams per kilogram (63165) | 2,6-Dimethylnaphthalene, solids, recoverable, dry weight, micro-grams per kilogram (63167) | 2-Methylnaphthalene, solids, recoverable, dry weight, micro-grams per kilogram (63168) | 3-beta-Coprostanol, solids, recoverable, dry weight, micro-grams per kilogram (63170) |
|------------|-------------------|---|--|---|---|---|--|--|--|---|
| 05-21-2013 | 1745 | < 60 | < 60 | < 120 | 250 | < 60 | 20 | 30 | 30 | E 520 |
| 05-22-2013 | 1315 | < 40 | < 40 | < 90 | 280 | < 40 | 30 | 30 | 60 | < 430 |
| 05-22-2013 | 1430 | < 40 | < 40 | < 90 | 180 | < 40 | 10 | E 10 | 30 | < 440 |
| 08-05-2013 | 1445 | < 50 | < 50 | < 100 | 170 | < 50 | 20 | 10 | 30 | < 520 |
| 08-05-2013 | 1530 | < 50 | < 50 | < 100 | 650 | < 50 | 40 | 20 | 90 | < 500 |
| 08-05-2013 | 1531 | < 50 | < 50 | < 100 | 350 | < 50 | 40 | 30 | 100 | < 500 |
| 08-05-2013 | 1715 | < 70 | < 70 | < 140 | 180 | < 70 | 30 | E 50 | 40 | < 700 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY DATA
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[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | 3-Methyl-1H-indole, solids, recoverable, dry weight, micro-grams per kilogram (63171) | 3-tert-Butyl-4-hydroxyanisole, solids, recoverable, dry weight, micro-grams per kilogram (63172) | 4-Cumylphenol, solids, recoverable, dry weight, micro-grams per kilogram (63173) | 4-n-Octylphenol, solids, recoverable, dry weight, micro-grams per kilogram (63174) | 4-Nonylphenol (sum of all isomers), solids, recoverable, dry weight, micro-grams per kilogram (63175) | 4-Nonyl-diethoxyate (sum of all isomers), solids, recoverable, dry weight, micro-grams per kilogram (63200) | 4-Nonylphenol monoethoxyate (sum of all isomers), solids, recoverable, dry weight, micro-grams per kilogram (63221) | 4-tert-Octylphenol diethoxyate, solids, recoverable, dry weight, micro-grams per kilogram (63201) | 4-tert-Octylphenol monoethoxyate, solids, recoverable, dry weight, micro-grams per kilogram (63206) |
|------------|-------------------|---|--|--|--|---|---|---|---|---|
| 05-21-2013 | 1745 | 10 | < 190 | < 60 | < 60 | < 930 | < 1,200 | < 620 | < 60 | < 310 |
| 05-22-2013 | 1315 | 20 | < 130 | < 40 | < 40 | < 640 | < 860 | < 430 | < 40 | < 220 |
| 05-22-2013 | 1430 | M | < 130 | < 40 | < 40 | < 650 | < 870 | < 440 | < 40 | < 220 |
| 08-05-2013 | 1445 | M | -- | < 50 | < 50 | < 780 | < 1,000 | < 520 | < 50 | < 260 |
| 08-05-2013 | 1530 | 20 | -- | < 50 | < 50 | < 760 | < 1,000 | < 500 | < 50 | < 250 |
| 08-05-2013 | 1531 | 20 | -- | M | < 50 | < 760 | < 1,000 | < 500 | < 50 | < 250 |
| 08-05-2013 | 1715 | 30 | < 210 | < 70 | < 70 | < 1,000 | < 1,400 | < 700 | < 70 | < 350 |

WATER-QUALITY DATA
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[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | 4-tert-Octylphenol, solids, recoverable, dry weight, micro-grams per kilogram (63176) | 9,10-Anthraquinone, solids, recoverable, dry weight, micro-grams per kilogram (63181) | Acetophenone, solids, recoverable, dry weight, micro-grams per kilogram (63178) | Acetyl hexamethyl tetrahydro naphthalene, solids, recoverable, dry weight, micro-grams per kilogram (63179) | Anthracene, solids, recoverable, dry weight, micro-grams per kilogram (63180) | BDE congener 47, solids, recoverable, dry weight, micro-grams per kilogram (63166) | Benzo[a]pyrene, solids, recoverable, dry weight, micro-grams per kilogram (63183) | Benzo-phenone, solids, recoverable, dry weight, micro-grams per kilogram (63184) | beta-Sitosterol, solids, recoverable, dry weight, micro-grams per kilogram (63185) |
|------------|-------------------|---|---|---|---|---|--|---|--|--|
| 05-21-2013 | 1745 | < 60 | 76 | < 190 | < 60 | 40 | < 62.0 | 150 | < 60 | E 5,600 |
| 05-22-2013 | 1315 | < 40 | 70 | < 130 | < 40 | 20 | < 43.0 | 50 | < 40 | E 4,200 |
| 05-22-2013 | 1430 | < 40 | 50 | < 130 | < 40 | 30 | < 43.5 | 110 | < 40 | E 2,700 |
| 08-05-2013 | 1445 | M | 41 | < 160 | < 50 | 20 | < 52.0 | 90 | < 50 | E 4,700 |
| 08-05-2013 | 1530 | M | 54 | < 150 | < 50 | 20 | < 50.5 | 40 | < 50 | E 2,700 |
| 08-05-2013 | 1531 | M | 79 | < 150 | < 50 | 40 | < 50.5 | 140 | < 50 | E 4,900 |
| 08-05-2013 | 1715 | < 70 | 140 | < 210 | < 70 | 80 | < 70.0 | 220 | < 70 | E 6,200 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 7

[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | beta-Stig- mastanol, solids, recover- able, dry weight, micro- grams per kilogram (63186) | Bis(2- ethylhexyl) phthalate, solids, recover- able, dry weight, micro- grams per kilogram (63187) | Bisphenol A, solids, recover- able, dry weight, micro- grams per kilogram (63188) | Chol- esterol, solids, recover- able, dry weight, micro- grams per kilogram (63196) | Diethyl phthalate, solids, recover- able, dry weight, micro- grams per kilogram (63202) | D- Limonene, solids, recover- able, dry weight, micro- grams per kilogram (63203) | Fluor- anthene, solids, recover- able, dry weight, micro- grams per kilogram (63208) | Hexahydro hexa- methyl cyclopenta benzo- pyran, solids, recover- able, dry weight, micro- grams per kilogram (63209) | Indole, solids, recover- able, dry weight, micro- grams per kilogram (63210) |
|------------|-------------------|--|--|---|--|--|--|---|---|--|
| 05-21-2013 | 1745 | E 1,000 | < 310 | E 20 | E 2,500 | < 120 | E 30 | 250 | < 60 | 190 |
| 05-22-2013 | 1315 | E 390 | < 220 | E 50 | E 2,600 | < 90 | < 40 | 200 | < 40 | 210 |
| 05-22-2013 | 1430 | < 440 | < 220 | E 40 | E 1,400 | < 90 | < 40 | 230 | < 40 | 190 |
| 08-05-2013 | 1445 | E 670 | < 260 | M | E 1,700 | < 100 | < 50 | 200 | M | 100 |
| 08-05-2013 | 1530 | E 410 | < 250 | < 50 | E 1,100 | < 100 | < 50 | 110 | < 50 | 90 |
| 08-05-2013 | 1531 | E 710 | < 250 | E 40 | E 1,800 | < 100 | < 50 | 360 | M | 150 |
| 08-05-2013 | 1715 | E 860 | < 350 | < 70 | E 3,100 | < 140 | < 70 | E 620 | < 70 | 370 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 7

[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | Iso- phorone, solids, recover- able, dry weight, micro- grams per kilogram (63212) | Isopropyl- benzene, solids, recover- able, dry weight, micro- grams per kilogram (63213) | Iso- quinoline, solids, recover- able, dry weight, micro- grams per kilogram (63214) | Menthol, solids, recover- able, dry weight, micro- grams per kilogram (63215) | Naphtha- lene, solids, recover- able, dry weight, micro- grams per kilogram (63220) | Phenan- threne, solids, recover- able, dry weight, micro- grams per kilogram (63224) | Phenol, solids, recover- able, dry weight, micro- grams per kilogram (63225) | Pyrene, solids, recover- able, dry weight, micro- grams per kilogram (63227) | Tributyl phosphate, solids, recover- able, dry weight, micro- grams per kilogram (63231) |
|------------|-------------------|---|---|---|---|--|---|--|--|---|
| 05-21-2013 | 1745 | < 60 | < 120 | < 120 | < 60 | 40 | 120 | E 80 | 230 | < 60 |
| 05-22-2013 | 1315 | M | < 90 | < 90 | < 40 | 100 | 100 | E 80 | 150 | M |
| 05-22-2013 | 1430 | < 40 | < 90 | < 90 | < 40 | 50 | 120 | < 40 | 210 | < 40 |
| 08-05-2013 | 1445 | M | < 100 | < 100 | < 50 | < 60 | 100 | < 50 | 190 | < 50 |
| 08-05-2013 | 1530 | M | < 100 | < 100 | < 50 | 180 | 100 | < 60 | 110 | < 50 |
| 08-05-2013 | 1531 | M | < 100 | < 100 | < 50 | 200 | 200 | < 50 | 350 | < 50 |
| 08-05-2013 | 1715 | M | < 140 | < 140 | < 70 | 40 | 340 | < 70 | 480 | < 70 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 7 of 7

[--, no data; <, less than; E, estimated; M, presence verified but not quantified]

| Date | Sample start time | Triclosan, solids, recoverable, dry weight, micro-grams per kilogram (63232) | Triphenyl phosphate, solids, recoverable, dry weight, micro-grams per kilogram (63234) | Tris(2-butoxyethyl) phosphate, solids, recoverable, dry weight, micro-grams per kilogram (63229) | Tris(2-chloroethyl) phosphate, solids, recoverable, dry weight, micro-grams per kilogram (63230) | Tris (dichloroisopropyl) phosphate, solids, recoverable, dry weight, micro-grams per kilogram (63235) |
|------------|-------------------|--|--|--|--|---|
| 05-21-2013 | 1745 | < 62.0 | < 60 | < 190 | < 120 | < 120 |
| 05-22-2013 | 1315 | < 43.0 | M | < 130 | < 90 | < 90 |
| 05-22-2013 | 1430 | < 43.5 | < 40 | < 130 | < 90 | < 90 |
| 08-05-2013 | 1445 | 5.68 | < 50 | < 160 | < 100 | < 100 |
| 08-05-2013 | 1530 | < 50.5 | < 50 | < 150 | < 100 | < 100 |
| 08-05-2013 | 1531 | < 50.5 | < 50 | < 150 | < 100 | < 100 |
| 08-05-2013 | 1715 | < 105 | < 70 | < 210 | < 140 | < 140 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS,
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 217 | 211 | 214 | 195 | 143 | 160 | 235 | 228 | 232 | 157 | 151 | 154 |
| 2 | 220 | 214 | 216 | 166 | 144 | 153 | 241 | 230 | 234 | 165 | 157 | 161 |
| 3 | 222 | 217 | 220 | 187 | 166 | 178 | 239 | 231 | 233 | 170 | 165 | 168 |
| 4 | 234 | 222 | 229 | 168 | 152 | 160 | 239 | 233 | 235 | 178 | 169 | 173 |
| 5 | 239 | 234 | 236 | 152 | 147 | 149 | 240 | 233 | 236 | 183 | 176 | 179 |
| 6 | 244 | 237 | 241 | 147 | 142 | 144 | 244 | 237 | 242 | 187 | 182 | 185 |
| 7 | 248 | 243 | 246 | 150 | 144 | 147 | 246 | 242 | 244 | 190 | 186 | 188 |
| 8 | 249 | 246 | 248 | 158 | 150 | 154 | 251 | 245 | 247 | 190 | 186 | 187 |
| 9 | 255 | 249 | 250 | 166 | 158 | 161 | 250 | 243 | 246 | 195 | 190 | 193 |
| 10 | 267 | 254 | 259 | 169 | 166 | 168 | 248 | 242 | 243 | --- | --- | --- |
| 11 | 274 | 267 | 270 | 174 | 168 | 172 | 248 | 233 | 240 | --- | --- | --- |
| 12 | 275 | 269 | 272 | 178 | 173 | 176 | 233 | 227 | 229 | --- | --- | --- |
| 13 | 271 | 268 | 269 | 179 | 176 | 177 | 232 | 219 | 227 | --- | --- | --- |
| 14 | 272 | 265 | 270 | 184 | 179 | 181 | 227 | 217 | 222 | --- | --- | --- |
| 15 | 269 | 265 | 266 | 192 | 184 | 188 | 222 | 188 | 205 | --- | --- | --- |
| 16 | 273 | 266 | 270 | 195 | 192 | 194 | 188 | 177 | 182 | 177 | 148 | 162 |
| 17 | 279 | 272 | 276 | 204 | 192 | 196 | 177 | 167 | 173 | 154 | 135 | 140 |
| 18 | 284 | 274 | 281 | 207 | 203 | 205 | 167 | 164 | 165 | 143 | 128 | 133 |
| 19 | 275 | 270 | 273 | 209 | 206 | 207 | 165 | 160 | 163 | 138 | 127 | 131 |
| 20 | 280 | 274 | 278 | 210 | 207 | 208 | 161 | 134 | 148 | 141 | 127 | 132 |
| 21 | 286 | 278 | 282 | 214 | 209 | 210 | 158 | 133 | 148 | 143 | 131 | 137 |
| 22 | 297 | 285 | 291 | 218 | 214 | 216 | 133 | 106 | 120 | 144 | 134 | 138 |
| 23 | 289 | 270 | 274 | 223 | 215 | 220 | 125 | 110 | 117 | 151 | 140 | 145 |
| 24 | 270 | 249 | 264 | 225 | 222 | 223 | 126 | 111 | 119 | 168 | 151 | 156 |
| 25 | 249 | 240 | 246 | 229 | 223 | 226 | 127 | 124 | 125 | 185 | 167 | 173 |
| 26 | 251 | 240 | 244 | 227 | 223 | 225 | 135 | 127 | 129 | 190 | 176 | 184 |
| 27 | 267 | 251 | 260 | 229 | 224 | 226 | 132 | 129 | 130 | --- | --- | --- |
| 28 | 270 | 259 | 267 | --- | --- | --- | 135 | 130 | 132 | --- | --- | --- |
| 29 | 259 | 218 | 240 | --- | --- | --- | 149 | 135 | 138 | --- | --- | --- |
| 30 | 243 | 194 | 221 | 230 | 225 | 228 | 147 | 142 | 144 | --- | --- | --- |
| 31 | 194 | 153 | 180 | --- | --- | --- | 151 | 147 | 149 | --- | --- | --- |
| Month | 297 | 153 | 253 | 230 | 142 | 188 | 251 | 106 | 187 | 195 | 127 | 161 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS,
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | 236 | 215 | 226 | 224 | 189 | 202 | 185 | 169 | 174 |
| 2 | --- | --- | --- | 228 | 215 | 221 | --- | --- | --- | 179 | 174 | 176 |
| 3 | --- | --- | --- | 234 | 216 | 227 | --- | --- | --- | 180 | 176 | 178 |
| 4 | --- | --- | --- | --- | --- | --- | 201 | 185 | 195 | 183 | 178 | 180 |
| 5 | --- | --- | --- | --- | --- | --- | 209 | 178 | 188 | 186 | 183 | 184 |
| 6 | --- | --- | --- | --- | --- | --- | 220 | 172 | 178 | 187 | 185 | 186 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 191 | 187 | 190 |
| 8 | --- | --- | --- | 251 | 243 | 248 | --- | --- | --- | 192 | 188 | 190 |
| 9 | --- | --- | --- | 245 | 238 | 242 | 153 | 150 | 152 | 192 | 188 | 191 |
| 10 | --- | --- | --- | 239 | 234 | 237 | 163 | 152 | 156 | 191 | 169 | 180 |
| 11 | --- | --- | --- | 245 | 234 | 240 | 179 | 159 | 168 | 181 | 166 | 173 |
| 12 | --- | --- | --- | 243 | 228 | 235 | 183 | 163 | 172 | 179 | 160 | 171 |
| 13 | --- | --- | --- | 249 | 225 | 229 | 206 | 166 | 177 | 161 | 148 | 156 |
| 14 | --- | --- | --- | 233 | 158 | 202 | 197 | 149 | 174 | 148 | 139 | 141 |
| 15 | --- | --- | --- | 211 | 158 | 179 | 181 | 143 | 161 | 146 | 139 | 143 |
| 16 | 193 | 187 | 190 | 158 | 142 | 150 | 155 | 137 | 145 | 142 | 137 | 138 |
| 17 | 210 | 193 | 198 | 142 | 135 | 137 | 187 | 134 | 156 | 148 | 142 | 144 |
| 18 | 234 | 203 | 221 | 137 | 135 | 136 | 179 | 137 | 159 | 152 | 147 | 149 |
| 19 | 254 | 223 | 231 | 138 | 135 | 137 | 148 | 129 | 138 | 153 | 150 | 151 |
| 20 | 254 | 221 | 224 | 149 | 138 | 144 | 144 | 131 | 139 | 156 | 150 | 151 |
| 21 | 231 | 221 | 224 | 170 | 147 | 154 | 159 | 128 | 146 | 157 | 151 | 154 |
| 22 | --- | --- | --- | 172 | 157 | 163 | 149 | 126 | 138 | 166 | 156 | 161 |
| 23 | --- | --- | --- | 176 | 162 | 168 | 148 | 141 | 144 | 181 | 165 | 173 |
| 24 | --- | --- | --- | 176 | 164 | 168 | 152 | 141 | 147 | 181 | 169 | 176 |
| 25 | --- | --- | --- | 184 | 167 | 176 | 156 | 138 | 145 | 180 | 175 | 177 |
| 26 | 241 | 232 | 236 | 192 | 174 | 182 | 163 | 138 | 150 | 180 | 174 | 177 |
| 27 | 237 | 231 | 234 | 189 | 170 | 179 | 154 | 137 | 143 | 178 | 169 | 173 |
| 28 | 238 | 232 | 235 | 186 | 169 | 172 | 164 | 145 | 155 | 211 | 178 | 196 |
| 29 | --- | --- | --- | 211 | 172 | 179 | 174 | 152 | 163 | 213 | 209 | 210 |
| 30 | --- | --- | --- | 219 | 180 | 190 | 186 | 161 | 174 | 224 | 210 | 214 |
| 31 | --- | --- | --- | 195 | 184 | 190 | --- | --- | --- | 224 | 212 | 218 |
| Month | 254 | 187 | 221 | 251 | 135 | 189 | 224 | 126 | 160 | 224 | 137 | 173 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS,
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | 212 | 190 | 199 | --- | --- | --- | 227 | 218 | 221 | 302 | 289 | 295 |
| 2 | 207 | 192 | 201 | 209 | 165 | 187 | 218 | 211 | 213 | 308 | 288 | 298 |
| 3 | 217 | 198 | 203 | 168 | 148 | 160 | 226 | 213 | 219 | 313 | 298 | 304 |
| 4 | 215 | 190 | 203 | 148 | 137 | 143 | 234 | 225 | 229 | 317 | 301 | 306 |
| 5 | 192 | 174 | 181 | 143 | 136 | 140 | 243 | 233 | 237 | --- | --- | --- |
| 6 | 177 | 169 | 173 | 150 | 142 | 146 | 255 | 243 | 249 | 311 | 286 | 305 |
| 7 | 174 | 167 | 170 | 158 | 149 | 154 | 265 | 252 | 258 | 286 | 264 | 272 |
| 8 | 182 | 171 | 177 | 161 | 153 | 157 | 260 | 246 | 253 | 278 | 260 | 268 |
| 9 | 190 | 181 | 187 | 167 | 160 | 164 | 251 | 245 | 249 | 260 | 239 | 251 |
| 10 | 195 | 139 | 188 | 176 | 166 | 169 | 253 | 245 | 247 | 241 | 234 | 236 |
| 11 | 197 | 182 | 189 | 182 | 174 | 177 | 260 | 251 | 256 | 258 | 237 | 246 |
| 12 | 219 | 196 | 212 | 197 | 182 | 190 | 300 | 257 | 274 | 260 | 242 | 253 |
| 13 | 219 | 206 | 214 | 200 | 195 | 198 | 303 | 249 | 270 | 247 | 232 | 239 |
| 14 | 209 | 204 | 206 | 196 | 181 | 189 | 249 | 197 | 217 | 243 | 235 | 239 |
| 15 | 220 | 205 | 213 | 203 | 186 | 194 | 204 | 192 | 196 | 245 | 238 | 242 |
| 16 | 212 | 190 | 199 | 211 | 201 | 205 | 218 | 204 | 214 | 258 | 243 | 251 |
| 17 | 196 | 180 | 185 | 215 | 211 | 212 | 222 | 209 | 218 | 287 | 258 | 273 |
| 18 | 184 | 170 | 179 | 217 | 210 | 212 | 214 | 205 | 210 | 287 | 282 | 285 |
| 19 | 172 | 164 | 167 | --- | --- | --- | 220 | 205 | 213 | 287 | 275 | 282 |
| 20 | 166 | 159 | 163 | --- | --- | --- | 230 | 215 | 223 | 278 | 268 | 273 |
| 21 | 168 | 160 | 163 | --- | --- | --- | 247 | 230 | 240 | 271 | 266 | 269 |
| 22 | 174 | 164 | 168 | --- | --- | --- | 254 | 239 | 246 | 275 | 267 | 270 |
| 23 | 181 | 169 | 174 | --- | --- | --- | 269 | 250 | 262 | 275 | 271 | 273 |
| 24 | 185 | 179 | 181 | --- | --- | --- | 276 | 261 | 267 | 279 | 272 | 275 |
| 25 | 193 | 185 | 190 | 237 | 231 | 234 | 274 | 262 | 266 | 274 | 264 | 268 |
| 26 | 199 | 192 | 196 | 239 | 230 | 235 | 285 | 265 | 273 | 267 | 261 | 263 |
| 27 | 209 | 177 | 200 | 301 | 235 | 256 | 282 | 274 | 277 | --- | --- | --- |
| 28 | 207 | 176 | 198 | 306 | 290 | 298 | 289 | 275 | 282 | --- | --- | --- |
| 29 | --- | --- | --- | 290 | 266 | 280 | 292 | 285 | 288 | --- | --- | --- |
| 30 | --- | --- | --- | 266 | 242 | 252 | 295 | 283 | 288 | --- | --- | --- |
| 31 | --- | --- | --- | 244 | 227 | 236 | 301 | 283 | 289 | --- | --- | --- |
| Month | 220 | 139 | 189 | 306 | 136 | 200 | 303 | 192 | 247 | 317 | 232 | 269 |

| | Max | Min | Mean |
|------|-----|-----|------|
| Year | 317 | 106 | 203 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Median | Max | Min | Median | Max | Min | Median | Max | Min | Median |
|------------|---------|-----|--------|----------|-----|--------|----------|-----|--------|---------|-----|--------|
| | October | | | November | | | December | | | January | | |
| 1 | 8.7 | 7.8 | 8.1 | 7.6 | 7.5 | 7.5 | --- | --- | --- | --- | --- | --- |
| 2 | 8.5 | 7.9 | 8.2 | 7.5 | 7.4 | 7.4 | --- | --- | --- | --- | --- | --- |
| 3 | 8.5 | 7.7 | 7.9 | 7.6 | 7.5 | 7.6 | --- | --- | --- | --- | --- | --- |
| 4 | 8.5 | 7.8 | 8.2 | 7.6 | 7.6 | 7.6 | --- | --- | --- | --- | --- | --- |
| 5 | 8.8 | 7.9 | 8.2 | 7.7 | 7.6 | 7.6 | --- | --- | --- | --- | --- | --- |
| 6 | 8.6 | 8.1 | 8.4 | 7.8 | 7.6 | 7.7 | --- | --- | --- | --- | --- | --- |
| 7 | 8.5 | 8.1 | 8.3 | 7.8 | 7.6 | 7.7 | --- | --- | --- | --- | --- | --- |
| 8 | 8.6 | 8.1 | 8.3 | 7.8 | 7.7 | 7.7 | --- | --- | --- | --- | --- | --- |
| 9 | 8.8 | 8.2 | 8.4 | 7.8 | 7.7 | 7.7 | --- | --- | --- | --- | --- | --- |
| 10 | 8.9 | 8.5 | 8.6 | 7.8 | 7.6 | 7.7 | --- | --- | --- | --- | --- | --- |
| 11 | 8.9 | 8.5 | 8.5 | 7.8 | 7.6 | 7.7 | --- | --- | --- | --- | --- | --- |
| 12 | 8.8 | 8.5 | 8.6 | 7.8 | 7.6 | 7.7 | --- | --- | --- | --- | --- | --- |
| 13 | 8.9 | 8.5 | 8.6 | 7.9 | 7.6 | 7.7 | --- | --- | --- | --- | --- | --- |
| 14 | 8.7 | 8.4 | 8.5 | 8.0 | 7.7 | 7.8 | --- | --- | --- | --- | --- | --- |
| 15 | 8.6 | 8.3 | 8.3 | 8.0 | 7.7 | 7.8 | --- | --- | --- | --- | --- | --- |
| 16 | 8.7 | 8.1 | 8.4 | 8.0 | 7.7 | 7.9 | --- | --- | --- | --- | --- | --- |
| 17 | 8.8 | 8.2 | 8.4 | 8.0 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- |
| 18 | 8.8 | 8.3 | 8.4 | 8.0 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- |
| 19 | 8.5 | 8.0 | 8.1 | 8.1 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- |
| 20 | 8.6 | 8.0 | 8.1 | 8.1 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- |
| 21 | 8.6 | 8.0 | 8.2 | 8.1 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- |
| 22 | 8.6 | 8.0 | 8.4 | 8.2 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- |
| 23 | 8.4 | 7.8 | 8.1 | 8.1 | 7.7 | 8.0 | --- | --- | --- | --- | --- | --- |
| 24 | 8.5 | 7.8 | 8.1 | 8.0 | 7.7 | 7.8 | --- | --- | --- | --- | --- | --- |
| 25 | 8.2 | 7.7 | 7.8 | 8.0 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- |
| 26 | 8.0 | 7.6 | 7.7 | 8.1 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- |
| 27 | 8.0 | 7.7 | 7.8 | 8.0 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- |
| 28 | 8.1 | 7.7 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 7.9 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 8.0 | 7.8 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 7.9 | 7.6 | 7.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Max | 8.9 | 8.5 | 8.6 | 8.2 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- |
| Min | 7.9 | 7.6 | 7.7 | 7.5 | 7.4 | 7.4 | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Median | Max | Min | Median | Max | Min | Median | Max | Min | Median |
|------------|----------|-----|--------|-------|-----|--------|-------|-----|--------|-----|-----|--------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.2 | 7.4 | 7.8 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 7.5 | 7.8 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.4 | 7.6 | 7.9 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.7 | 7.6 | 8.1 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.6 | 7.7 | 8.1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.6 | 7.7 | 8.2 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 7.6 | 7.9 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 7.6 | 7.8 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.0 | 7.6 | 7.7 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.8 | 7.6 | 7.6 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.8 | 7.6 | 7.7 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.7 | 7.6 | 7.6 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.8 | 7.5 | 7.6 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.6 | 7.4 | 7.5 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.1 | 7.4 | 7.5 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.2 | 7.5 | 7.8 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.4 | 7.5 | 7.8 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.4 | 7.4 | 7.8 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.2 | 7.5 | 7.8 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.4 | 7.5 | 7.8 |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.5 | 7.7 | 8.0 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.5 | 7.6 | 8.2 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.6 | 7.7 | 8.1 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 7.7 | 8.2 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.0 | 8.2 | 8.7 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.1 | 8.2 | 8.8 |
| Max | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.1 | 8.2 | 8.8 |
| Min | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.6 | 7.4 | 7.5 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Median | Max | Min | Median | Max | Min | Median | Max | Min | Median |
|------------|------|-----|--------|------|-----|--------|--------|-----|--------|-----------|-----|--------|
| | June | | | July | | | August | | | September | | |
| 1 | 8.9 | 8.3 | 8.7 | 7.5 | 7.3 | 7.4 | 8.5 | 7.7 | 8.1 | 8.6 | 8.0 | 8.2 |
| 2 | 8.8 | 7.9 | 8.4 | 7.5 | 7.4 | 7.5 | 8.9 | 7.8 | 8.2 | 8.6 | 7.8 | 8.3 |
| 3 | 8.8 | 7.8 | 8.4 | 7.4 | 7.4 | 7.4 | 8.9 | 7.8 | 8.3 | 8.6 | 7.8 | 8.2 |
| 4 | 9.0 | 7.9 | 8.6 | 7.4 | 7.4 | 7.4 | 9.1 | 7.9 | 8.5 | 8.6 | 8.0 | 8.5 |
| 5 | 9.1 | 8.0 | 8.7 | 7.4 | 7.4 | 7.4 | 9.2 | 8.0 | 8.8 | 8.6 | 7.9 | 8.4 |
| 6 | 8.8 | 8.0 | 8.4 | 7.4 | 7.4 | 7.4 | 9.0 | 8.1 | 8.7 | 8.6 | 7.8 | 8.2 |
| 7 | 8.1 | 7.5 | 7.8 | 7.5 | 7.4 | 7.4 | 8.8 | 7.9 | 8.3 | 8.1 | 7.7 | 7.9 |
| 8 | 8.6 | 7.4 | 7.8 | 7.5 | 7.4 | 7.5 | 9.2 | 7.8 | 8.2 | 8.1 | 7.7 | 7.8 |
| 9 | 8.8 | 7.6 | 8.3 | 7.5 | 7.4 | 7.5 | 9.3 | 8.0 | 8.8 | 8.0 | 7.7 | 7.8 |
| 10 | 8.4 | 7.5 | 7.6 | 7.6 | 7.4 | 7.5 | 9.4 | 8.1 | 8.8 | 8.2 | 7.5 | 7.8 |
| 11 | 8.6 | 7.4 | 7.8 | 7.8 | 7.5 | 7.6 | 9.4 | 8.3 | 9.0 | 8.1 | 7.5 | 7.8 |
| 12 | 9.0 | 7.8 | 8.6 | 7.7 | 7.6 | 7.6 | 9.0 | 8.0 | 8.3 | 7.8 | 7.4 | 7.6 |
| 13 | 8.6 | 7.7 | 8.1 | 7.7 | 7.6 | 7.6 | 8.1 | 7.8 | 7.9 | 7.9 | 7.4 | 7.5 |
| 14 | 8.4 | 7.6 | 7.8 | 7.7 | 7.5 | 7.6 | 7.8 | 7.6 | 7.8 | 8.1 | 7.6 | 7.7 |
| 15 | 7.8 | 7.5 | 7.7 | 7.9 | 7.4 | 7.6 | 7.6 | 7.6 | 7.6 | 8.3 | 7.7 | 8.0 |
| 16 | 7.6 | 7.4 | 7.5 | 8.0 | 7.5 | 7.7 | 8.1 | 7.6 | 7.7 | 8.2 | 7.7 | 8.0 |
| 17 | 7.6 | 7.5 | 7.6 | 8.2 | 7.5 | 7.8 | 8.2 | 7.6 | 7.8 | 8.2 | 7.7 | 7.9 |
| 18 | 7.6 | 7.5 | 7.6 | 8.5 | 7.6 | 7.9 | 7.9 | 7.5 | 7.7 | 8.5 | 7.8 | 8.1 |
| 19 | 7.7 | 7.5 | 7.6 | 8.4 | 7.6 | 8.1 | 8.0 | 7.6 | 7.7 | 8.4 | 7.9 | 8.3 |
| 20 | 7.8 | 7.5 | 7.6 | 8.6 | 7.6 | 8.0 | 8.4 | 7.6 | 7.8 | 8.4 | 7.9 | 8.2 |
| 21 | 8.3 | 7.5 | 7.8 | 8.7 | 7.8 | 8.3 | 8.6 | 7.7 | 8.0 | 8.4 | 7.8 | 7.9 |
| 22 | 8.8 | 7.5 | 8.0 | 8.6 | 7.8 | 8.2 | 8.5 | 7.6 | 8.0 | 8.2 | 7.6 | 7.8 |
| 23 | 9.0 | 7.8 | 8.4 | 8.9 | 7.7 | 8.1 | 8.4 | 7.7 | 8.0 | 8.4 | 7.9 | 8.1 |
| 24 | 9.0 | 7.9 | 8.7 | 9.0 | 8.2 | 8.6 | 8.7 | 7.8 | 8.2 | 8.5 | 8.2 | 8.3 |
| 25 | 8.9 | 7.9 | 8.7 | 8.9 | 8.3 | 8.7 | 8.7 | 8.1 | 8.4 | 8.6 | 8.3 | 8.4 |
| 26 | 8.6 | 7.7 | 8.2 | 9.0 | 8.3 | 8.7 | 8.8 | 8.2 | 8.5 | 8.6 | 8.3 | 8.5 |
| 27 | 8.2 | 7.5 | 7.8 | 8.9 | 8.1 | 8.6 | 8.9 | 8.3 | 8.5 | 8.6 | 8.2 | 8.5 |
| 28 | 7.9 | 7.2 | 7.5 | 8.8 | 8.3 | 8.6 | 8.7 | 8.2 | 8.4 | 8.5 | 8.2 | 8.4 |
| 29 | 7.7 | 7.2 | 7.5 | 9.1 | 8.5 | 8.8 | 8.9 | 7.9 | 8.2 | 8.5 | 8.3 | 8.4 |
| 30 | 7.5 | 7.4 | 7.4 | 8.9 | 8.1 | 8.5 | 8.8 | 8.2 | 8.3 | 8.6 | 8.3 | 8.5 |
| 31 | --- | --- | --- | 8.6 | 7.9 | 8.2 | 8.8 | 8.1 | 8.4 | --- | --- | --- |
| Max | 9.1 | 8.3 | 8.7 | 9.1 | 8.5 | 8.8 | 9.4 | 8.3 | 9.0 | 8.6 | 8.3 | 8.5 |
| Min | 7.5 | 7.2 | 7.4 | 7.4 | 7.3 | 7.4 | 7.6 | 7.5 | 7.6 | 7.8 | 7.4 | 7.5 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|---------|------|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 19.1 | 16.3 | 17.7 | 10.3 | 9.8 | 10.1 | 4.0 | 3.2 | 3.6 | 1.1 | 0.5 | 0.9 |
| 2 | 18.6 | 17.8 | 18.1 | 9.8 | 9.2 | 9.4 | 5.0 | 4.0 | 4.5 | 0.8 | 0.3 | 0.5 |
| 3 | 19.3 | 17.9 | 18.5 | 9.2 | 8.4 | 8.8 | 7.1 | 5.0 | 6.0 | 0.6 | 0.0 | 0.3 |
| 4 | 20.1 | 19.0 | 19.4 | 8.4 | 7.9 | 8.2 | 8.2 | 6.6 | 7.4 | 1.0 | 0.2 | 0.6 |
| 5 | 21.1 | 18.6 | 19.8 | 8.1 | 7.4 | 7.7 | 8.8 | 6.8 | 8.2 | 0.9 | 0.0 | 0.5 |
| 6 | 20.3 | 18.0 | 19.3 | 7.8 | 6.9 | 7.3 | 6.8 | 5.0 | 5.7 | 1.7 | 0.5 | 1.1 |
| 7 | 18.0 | 15.3 | 16.4 | 7.0 | 6.0 | 6.6 | 5.3 | 4.7 | 4.9 | 1.9 | 1.3 | 1.6 |
| 8 | 15.3 | 13.3 | 14.1 | 6.7 | 5.6 | 6.1 | 5.6 | 4.8 | 5.2 | 1.6 | 0.7 | 1.1 |
| 9 | 14.6 | 12.9 | 13.7 | 7.2 | 5.3 | 6.2 | 6.0 | 5.6 | 5.8 | 1.1 | 0.6 | 0.9 |
| 10 | 16.0 | 14.3 | 15.0 | 7.3 | 6.2 | 6.7 | 6.1 | 5.4 | 5.7 | 1.9 | 0.5 | 1.2 |
| 11 | 14.9 | 13.1 | 14.1 | 8.3 | 6.4 | 7.4 | 6.5 | 5.7 | 6.1 | 2.1 | 1.3 | 1.7 |
| 12 | 13.9 | 12.7 | 13.4 | 9.7 | 7.4 | 8.4 | 5.7 | 4.7 | 5.1 | 3.2 | 2.0 | 2.6 |
| 13 | 13.3 | 11.3 | 12.4 | 9.7 | 8.6 | 9.1 | 5.0 | 4.2 | 4.6 | 3.5 | 3.0 | 3.3 |
| 14 | 13.7 | 12.0 | 12.7 | 8.9 | 7.6 | 8.2 | 4.6 | 3.8 | 4.2 | 4.3 | 3.5 | 3.9 |
| 15 | 14.7 | 13.2 | 13.9 | 8.0 | 6.8 | 7.4 | 4.4 | 3.8 | 4.1 | 3.9 | 3.6 | 3.8 |
| 16 | 14.1 | 12.9 | 13.3 | 7.5 | 6.3 | 6.9 | 4.6 | 4.1 | 4.4 | 3.8 | 3.5 | 3.6 |
| 17 | 14.1 | 12.0 | 13.0 | 7.5 | 5.9 | 6.8 | 4.9 | 4.6 | 4.8 | 3.7 | 3.4 | 3.5 |
| 18 | 15.1 | 12.7 | 13.9 | 7.1 | 5.8 | 6.5 | 5.5 | 4.7 | 5.0 | 3.5 | 2.8 | 3.1 |
| 19 | 15.5 | 14.3 | 14.9 | 7.2 | 5.6 | 6.5 | 5.0 | 4.4 | 4.6 | 3.0 | 2.2 | 2.6 |
| 20 | 15.5 | 14.3 | 14.8 | 7.0 | 5.6 | 6.4 | 4.6 | 4.2 | 4.5 | 3.3 | 2.5 | 2.8 |
| 21 | 14.5 | 12.8 | 13.7 | 6.8 | 5.5 | 6.2 | 4.8 | 4.5 | 4.6 | 2.5 | 1.3 | 2.0 |
| 22 | 14.9 | 12.7 | 13.8 | 6.5 | 5.1 | 5.9 | 4.5 | 3.8 | 4.1 | 1.3 | 0.0 | 0.2 |
| 23 | 14.6 | 13.5 | 14.1 | 6.4 | 5.1 | 5.8 | 3.8 | 3.5 | 3.6 | 0.0 | 0.0 | 0.0 |
| 24 | 16.5 | 14.2 | 15.2 | 6.0 | 4.3 | 5.0 | 3.5 | 3.0 | 3.1 | 0.0 | 0.0 | 0.0 |
| 25 | 16.3 | 15.7 | 16.0 | 4.3 | 3.5 | 3.8 | 3.2 | 2.9 | 3.0 | 0.0 | 0.0 | 0.0 |
| 26 | 15.9 | 15.5 | 15.7 | 4.4 | 3.0 | 3.6 | 3.0 | 1.9 | 2.3 | 0.0 | 0.0 | 0.0 |
| 27 | 15.9 | 15.5 | 15.7 | 3.8 | 3.2 | 3.6 | 2.1 | 1.5 | 1.9 | 0.0 | 0.0 | 0.0 |
| 28 | 15.5 | 14.0 | 14.8 | 3.8 | 3.1 | 3.4 | 2.0 | 1.5 | 1.6 | 0.0 | 0.0 | 0.0 |
| 29 | 14.0 | 11.5 | 12.6 | 3.7 | 2.6 | 3.1 | 1.6 | 0.9 | 1.2 | 0.0 | 0.0 | 0.0 |
| 30 | 11.6 | 10.8 | 11.1 | 3.8 | 2.4 | 3.1 | 0.9 | 0.3 | 0.6 | 3.2 | 0.0 | 0.8 |
| 31 | 10.8 | 10.2 | 10.5 | --- | --- | --- | 0.5 | 0.0 | 0.3 | 3.5 | 1.8 | 3.0 |
| Month | 21.1 | 10.2 | 14.9 | 10.3 | 2.4 | 6.5 | 8.8 | 0.0 | 4.2 | 4.3 | 0.0 | 1.5 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|------|------|------|------|------|
| | February | | | March | | | April | | | May | | |
| 1 | 1.8 | 0.0 | 0.5 | 3.4 | 2.9 | 3.1 | 8.0 | 6.6 | 7.2 | 16.7 | 13.7 | 15.2 |
| 2 | 0.4 | 0.0 | 0.2 | 3.3 | 2.7 | 3.0 | 7.8 | 6.2 | 6.9 | 18.1 | 15.0 | 16.5 |
| 3 | 0.6 | 0.2 | 0.4 | 2.8 | 2.2 | 2.6 | 7.4 | 6.2 | 6.6 | 18.6 | 16.0 | 17.3 |
| 4 | 0.5 | 0.0 | 0.3 | 2.9 | 1.7 | 2.2 | 7.2 | 5.5 | 6.4 | 19.2 | 15.7 | 17.5 |
| 5 | 0.6 | 0.3 | 0.4 | 3.6 | 1.4 | 2.5 | 8.4 | 6.3 | 7.3 | 19.4 | 16.2 | 17.8 |
| 6 | 1.1 | 0.6 | 0.8 | 3.3 | 2.9 | 3.1 | 9.0 | 6.8 | 7.9 | 18.7 | 16.4 | 17.7 |
| 7 | 1.0 | 0.6 | 0.8 | 4.5 | 2.6 | 3.5 | 10.0 | 7.8 | 8.8 | 19.6 | 17.4 | 18.5 |
| 8 | 1.3 | 1.0 | 1.2 | 4.6 | 2.9 | 3.8 | 11.8 | 9.2 | 10.4 | 20.6 | 18.6 | 19.4 |
| 9 | 1.4 | 0.2 | 0.8 | 5.7 | 2.6 | 4.2 | 14.3 | 11.2 | 12.7 | 19.9 | 18.1 | 18.9 |
| 10 | 1.6 | 0.4 | 1.0 | 7.0 | 4.0 | 5.5 | 15.8 | 13.4 | 14.6 | 19.7 | 17.7 | 18.7 |
| 11 | 1.9 | 1.2 | 1.6 | 7.2 | 5.2 | 6.3 | 16.9 | 15.0 | 15.8 | 18.9 | 17.8 | 18.3 |
| 12 | 2.8 | 1.6 | 2.1 | 8.2 | 7.0 | 7.5 | 15.4 | 12.6 | 13.6 | 18.4 | 16.5 | 17.7 |
| 13 | 2.1 | 1.4 | 1.8 | 7.7 | 6.1 | 6.9 | 12.8 | 11.9 | 12.3 | 16.5 | 14.4 | 15.4 |
| 14 | 3.1 | 1.4 | 2.2 | 6.1 | 5.2 | 5.5 | 11.9 | 10.4 | 10.9 | 15.4 | 13.8 | 14.5 |
| 15 | 3.9 | 2.4 | 3.1 | 5.3 | 4.4 | 4.7 | 10.7 | 9.7 | 10.2 | 16.0 | 14.4 | 15.0 |
| 16 | 3.8 | 2.9 | 3.4 | 4.5 | 2.8 | 3.6 | 10.8 | 9.8 | 10.2 | 18.1 | 15.1 | 16.5 |
| 17 | 2.9 | 0.5 | 1.9 | 3.4 | 2.6 | 2.9 | 12.1 | 10.7 | 11.3 | 19.3 | 16.2 | 17.7 |
| 18 | 1.7 | 0.0 | 0.8 | 3.1 | 2.0 | 2.5 | 12.0 | 11.7 | 11.9 | 18.5 | 17.2 | 17.7 |
| 19 | 1.5 | 1.0 | 1.2 | 4.0 | 2.0 | 2.8 | 13.6 | 12.0 | 12.7 | 17.5 | 16.6 | 17.0 |
| 20 | 1.2 | 0.0 | 0.5 | 4.1 | 2.8 | 3.4 | 13.6 | 12.4 | 13.0 | 20.4 | 16.8 | 18.4 |
| 21 | 0.8 | 0.0 | 0.2 | 3.8 | 2.9 | 3.4 | 12.9 | 11.3 | 12.2 | 23.4 | 19.1 | 21.2 |
| 22 | 0.9 | 0.0 | 0.4 | 3.5 | 2.6 | 3.0 | 13.0 | 11.6 | 12.3 | 25.2 | 21.8 | 23.4 |
| 23 | 2.3 | 0.3 | 1.1 | 4.6 | 2.4 | 3.4 | 13.1 | 11.9 | 12.5 | 24.4 | 23.0 | 23.7 |
| 24 | --- | --- | --- | 4.8 | 3.7 | 4.2 | 13.7 | 12.2 | 12.9 | 23.0 | 17.3 | 20.4 |
| 25 | --- | --- | --- | 4.4 | 3.9 | 4.1 | 14.2 | 12.2 | 13.2 | 17.5 | 15.4 | 16.6 |
| 26 | 2.8 | 1.6 | 2.3 | 5.8 | 3.8 | 4.7 | 15.1 | 13.0 | 14.0 | 19.0 | 15.3 | 17.2 |
| 27 | 3.9 | 2.2 | 3.0 | 6.5 | 5.0 | 5.6 | 16.0 | 13.7 | 14.8 | 19.9 | 17.0 | 18.6 |
| 28 | 4.2 | 3.1 | 3.6 | 6.2 | 5.7 | 5.9 | 15.6 | 14.6 | 15.1 | 19.5 | 17.8 | 18.3 |
| 29 | --- | --- | --- | 7.3 | 5.4 | 6.3 | 14.6 | 13.7 | 14.0 | 21.9 | 18.0 | 19.7 |
| 30 | --- | --- | --- | 8.6 | 5.9 | 7.2 | 14.9 | 13.7 | 14.2 | 24.2 | 20.8 | 22.6 |
| 31 | --- | --- | --- | 8.0 | 7.0 | 7.4 | --- | --- | --- | 25.4 | 21.8 | 23.7 |
| Month | 4.2 | 0.0 | 1.4 | 8.6 | 1.4 | 4.3 | 16.9 | 5.5 | 11.5 | 25.4 | 13.7 | 18.4 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
| | June | | | July | | | August | | | September | | |
| 1 | 26.1 | 23.1 | 24.6 | --- | --- | --- | 26.1 | 24.4 | 25.3 | 28.8 | 26.4 | 27.5 |
| 2 | 25.4 | 23.9 | 24.6 | 24.6 | 23.8 | 24.1 | 26.2 | 24.6 | 25.5 | 28.9 | 26.4 | 27.4 |
| 3 | 24.9 | 23.7 | 24.3 | 23.8 | 22.9 | 23.3 | 25.7 | 24.3 | 24.9 | 27.5 | 25.1 | 26.4 |
| 4 | 24.7 | 21.7 | 23.3 | 23.5 | 22.4 | 23.0 | 25.5 | 23.5 | 24.4 | 26.4 | 23.5 | 24.8 |
| 5 | 24.8 | 21.8 | 23.3 | 24.3 | 22.6 | 23.4 | 26.4 | 23.1 | 24.6 | 25.4 | 23.9 | 24.5 |
| 6 | 23.7 | 21.0 | 22.1 | 25.8 | 23.9 | 24.8 | 25.0 | 23.2 | 23.9 | 24.3 | 22.1 | 23.3 |
| 7 | 21.0 | 20.0 | 20.3 | 26.8 | 25.5 | 26.0 | 23.2 | 22.6 | 23.0 | 23.9 | 21.3 | 22.7 |
| 8 | 22.6 | 20.1 | 21.2 | 26.6 | 25.5 | 26.0 | 25.5 | 22.6 | 23.8 | 24.3 | 22.4 | 23.4 |
| 9 | 24.8 | 20.8 | 22.7 | 26.5 | 25.6 | 26.0 | 27.1 | 24.5 | 25.8 | 22.9 | 20.9 | 21.7 |
| 10 | 24.1 | 22.5 | 23.0 | 26.8 | 25.4 | 26.0 | 27.7 | 25.3 | 26.3 | 24.9 | 21.4 | 22.9 |
| 11 | 23.6 | 22.2 | 22.7 | 27.6 | 25.7 | 26.6 | 27.5 | 25.1 | 26.1 | 27.6 | 24.2 | 25.7 |
| 12 | 24.0 | 22.0 | 23.1 | 26.7 | 25.1 | 25.7 | 27.8 | 25.9 | 26.8 | 26.9 | 25.6 | 26.2 |
| 13 | 24.0 | 21.9 | 23.1 | 26.0 | 24.5 | 25.2 | 26.5 | 24.9 | 25.7 | 25.8 | 22.0 | 24.1 |
| 14 | 23.1 | 20.8 | 22.0 | 28.0 | 25.3 | 26.6 | 25.1 | 22.1 | 23.1 | 22.0 | 19.5 | 20.3 |
| 15 | 23.2 | 21.6 | 22.3 | 29.9 | 26.6 | 28.2 | 24.0 | 21.2 | 22.6 | 21.2 | 18.6 | 19.8 |
| 16 | 22.3 | 20.9 | 21.6 | 30.8 | 27.8 | 29.3 | 24.8 | 21.9 | 23.4 | 21.1 | 19.6 | 20.4 |
| 17 | 22.4 | 20.7 | 21.5 | 31.5 | 28.6 | 30.2 | 24.9 | 22.6 | 23.8 | 20.2 | 17.9 | 19.2 |
| 18 | 22.0 | 20.9 | 21.5 | 32.7 | 29.6 | 31.2 | 24.3 | 23.0 | 23.5 | 20.4 | 17.7 | 19.0 |
| 19 | 22.6 | 20.3 | 21.4 | --- | --- | --- | 23.4 | 22.2 | 22.8 | 21.1 | 18.2 | 19.6 |
| 20 | 23.6 | 21.0 | 22.3 | --- | --- | --- | 26.0 | 22.4 | 24.0 | 22.2 | 19.5 | 20.8 |
| 21 | 25.0 | 21.8 | 23.3 | --- | --- | --- | 26.9 | 23.9 | 25.4 | 21.4 | 19.4 | 20.4 |
| 22 | 26.1 | 22.7 | 24.4 | --- | --- | --- | 27.5 | 25.4 | 26.4 | 20.2 | 18.4 | 19.2 |
| 23 | 27.4 | 24.2 | 25.8 | --- | --- | --- | 26.5 | 25.0 | 25.5 | 18.5 | 16.5 | 17.5 |
| 24 | 28.5 | 25.6 | 27.1 | --- | --- | --- | 26.6 | 23.3 | 24.9 | 19.5 | 16.4 | 17.8 |
| 25 | 29.2 | 26.5 | 27.9 | 26.8 | 24.1 | 25.5 | 26.6 | 23.7 | 25.1 | 19.4 | 17.2 | 18.2 |
| 26 | 28.4 | 26.3 | 27.4 | 27.8 | 24.4 | 26.0 | 27.2 | 23.7 | 25.4 | 20.2 | 17.3 | 18.7 |
| 27 | 27.8 | 26.0 | 26.7 | 27.0 | 25.5 | 26.2 | 28.8 | 25.4 | 26.9 | --- | --- | --- |
| 28 | 26.8 | 25.4 | 26.1 | 26.2 | 24.6 | 25.3 | 27.8 | 26.4 | 27.1 | --- | --- | --- |
| 29 | --- | --- | --- | 26.8 | 24.5 | 25.7 | 27.5 | 25.3 | 26.2 | --- | --- | --- |
| 30 | --- | --- | --- | 26.5 | 24.1 | 25.5 | 28.7 | 25.8 | 27.1 | --- | --- | --- |
| 31 | --- | --- | --- | 26.2 | 24.2 | 25.3 | 28.8 | 25.8 | 27.2 | --- | --- | --- |
| Month | 29.2 | 20.0 | 23.6 | 32.7 | 22.4 | 26.0 | 28.8 | 21.2 | 25.0 | 28.9 | 16.4 | 22.0 |

| | Max | Min | Mean |
|-------------|------|-----|------|
| Year | 32.7 | 0.0 | 13.0 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|------|------|----------|------|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | 11.0 | 8.5 | 9.6 | 10.2 | 9.6 | 10 | --- | --- | --- | --- | --- | --- |
| 2 | 9.8 | 8.4 | 9.1 | 10.6 | 10.2 | 10.5 | --- | --- | --- | --- | --- | --- |
| 3 | 10.4 | 8.3 | 9.2 | 10.9 | 10.6 | 10.8 | --- | --- | --- | --- | --- | --- |
| 4 | 10.1 | 8.3 | 9.2 | 11.2 | 10.9 | 11.1 | --- | --- | --- | --- | --- | --- |
| 5 | 10.9 | 8.4 | 9.5 | 11.6 | 11.2 | 11.4 | --- | --- | --- | --- | --- | --- |
| 6 | 9.9 | 8.2 | 9.1 | 12.0 | 11.6 | 11.8 | --- | --- | --- | --- | --- | --- |
| 7 | 10.4 | 8.7 | 9.4 | 12.2 | 11.8 | 12.0 | --- | --- | --- | --- | --- | --- |
| 8 | 11.2 | 9.3 | 10.2 | 12.4 | 11.9 | 12.1 | --- | --- | --- | --- | --- | --- |
| 9 | 11.9 | 10.0 | 10.9 | 12.5 | 12.1 | 12.3 | --- | --- | --- | --- | --- | --- |
| 10 | 11.4 | 9.9 | 10.6 | 12.4 | 12.0 | 12.2 | --- | --- | --- | --- | --- | --- |
| 11 | 11.7 | 9.6 | 10.5 | 12.4 | 11.9 | 12.1 | --- | --- | --- | --- | --- | --- |
| 12 | 11.5 | 10.1 | 10.7 | 12.1 | 11.4 | 11.8 | --- | --- | --- | --- | --- | --- |
| 13 | 12.1 | 10.3 | 11.0 | 11.8 | 11.0 | 11.4 | --- | --- | --- | --- | --- | --- |
| 14 | 11.9 | 10.3 | 11.0 | 12.1 | 11.3 | 11.7 | --- | --- | --- | --- | --- | --- |
| 15 | 11.1 | 9.9 | 10.4 | 12.5 | 11.6 | 12.0 | --- | --- | --- | --- | --- | --- |
| 16 | 11.6 | 9.6 | 10.5 | 12.6 | 11.9 | 12.2 | --- | --- | --- | --- | --- | --- |
| 17 | 12.1 | 10.0 | 10.9 | 12.8 | 12.0 | 12.4 | --- | --- | --- | --- | --- | --- |
| 18 | 11.5 | 10.0 | 10.7 | 12.9 | 12.2 | 12.5 | --- | --- | --- | --- | --- | --- |
| 19 | 10.9 | 9.2 | 9.9 | 12.9 | 12.2 | 12.5 | --- | --- | --- | --- | --- | --- |
| 20 | 11.3 | 9.2 | 10.1 | 12.9 | 12.1 | 12.4 | --- | --- | --- | --- | --- | --- |
| 21 | 11.4 | 9.7 | 10.5 | 13.0 | 12.0 | 12.5 | --- | --- | --- | --- | --- | --- |
| 22 | 11.7 | 9.8 | 10.7 | 13.1 | 12.1 | 12.6 | --- | --- | --- | --- | --- | --- |
| 23 | 11.2 | 9.6 | 10.3 | 13.1 | 12.2 | 12.6 | --- | --- | --- | --- | --- | --- |
| 24 | 11.4 | 9.5 | 10.3 | 12.9 | 12.0 | 12.5 | --- | --- | --- | --- | --- | --- |
| 25 | 10.3 | 9.0 | 9.4 | 13.4 | 12.4 | 12.9 | --- | --- | --- | --- | --- | --- |
| 26 | 10.1 | 8.8 | 9.3 | 13.8 | 12.9 | 13.3 | --- | --- | --- | --- | --- | --- |
| 27 | 10.0 | 8.8 | 9.4 | 13.5 | 12.9 | 13.2 | --- | --- | --- | --- | --- | --- |
| 28 | 10.0 | 8.9 | 9.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | 10.0 | 9.3 | 9.7 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | 10.0 | 9.2 | 9.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 9.6 | 9.1 | 9.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | 12.1 | 8.2 | 10.0 | 13.8 | 9.6 | 12.0 | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|------|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.1 | 9.8 | 10.5 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.1 | 9.6 | 10.4 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.1 | 9.6 | 10.4 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.1 | 9.4 | 10.2 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.1 | 9.3 | 10.1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.7 | 8.8 | 9.7 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.6 | 8.4 | 9.4 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.4 | 8.3 | 9.3 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.4 | 8.7 | 9.0 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.3 | 8.7 | 9.0 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.9 | 8.8 | 9.4 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.9 | 9.4 | 9.7 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.6 | 9.8 | 10.2 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.6 | 9.9 | 10.3 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.3 | 9.7 | 10.0 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.3 | 9.4 | 9.9 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.0 | 9.2 | 9.6 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.8 | 9.1 | 9.4 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.2 | 8.9 | 9.5 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.9 | 8.5 | 9.2 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.6 | 7.8 | 8.6 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.3 | 7.2 | 8.1 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9.6 | 7.3 | 8.5 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.5 | 8.6 | 9.7 |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.5 | 9.1 | 9.8 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.5 | 8.9 | 9.7 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10.5 | 8.5 | 9.4 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.4 | 8.3 | 9.9 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.0 | 8.0 | 9.6 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.1 | 7.9 | 9.5 |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | 11.4 | 7.2 | 9.6 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | 10.0 | 7.5 | 8.9 | 7.1 | 6.6 | 6.9 | 8.9 | 6.8 | 7.8 | 9.2 | 6.5 | 7.7 |
| 2 | 9.9 | 7.2 | 8.4 | 7.3 | 6.9 | 7.1 | 9.8 | 6.9 | 8.3 | 9.4 | 6.3 | 7.7 |
| 3 | 10.3 | 7.0 | 8.7 | 7.5 | 7.2 | 7.4 | 9.7 | 6.9 | 8.2 | 9.1 | 6.5 | 7.8 |
| 4 | 11.4 | 7.5 | 9.5 | 7.6 | 7.4 | 7.5 | 10.3 | 7.2 | 8.8 | 9.8 | 6.9 | 8.2 |
| 5 | 10.8 | 7.8 | 9.3 | 7.6 | 7.3 | 7.5 | 11.0 | 7.3 | 9.1 | 9.5 | 7.0 | 8.3 |
| 6 | 9.2 | 7.4 | 8.4 | 7.4 | 7.1 | 7.3 | 9.7 | 7.0 | 8.4 | 9.3 | 7.3 | 8.3 |
| 7 | 9.3 | 7.3 | 8.3 | 7.2 | 6.9 | 7.1 | 9.8 | 7.0 | 8.2 | 9.0 | 7.4 | 8.2 |
| 8 | 10.5 | 7.5 | 9.0 | 7.2 | 6.8 | 7.0 | 11.0 | 7.3 | 8.9 | 9.0 | 7.2 | 8.1 |
| 9 | 10.7 | 7.8 | 9.3 | 7.2 | 6.9 | 7.1 | 10.9 | 7.1 | 9.0 | 9.2 | 7.2 | 8.1 |
| 10 | 8.8 | 7.0 | 7.9 | 7.5 | 7.0 | 7.2 | 11.6 | 6.7 | 9.0 | 9.5 | 7.4 | 8.4 |
| 11 | 9.8 | 7.0 | 8.4 | 8.0 | 7.0 | 7.4 | 11.8 | 7.0 | 9.1 | 8.9 | 6.9 | 7.9 |
| 12 | 11.4 | 7.6 | 9.4 | 7.6 | 7.0 | 7.3 | 8.9 | 7.0 | 7.7 | 7.9 | 6.3 | 7.1 |
| 13 | 9.8 | 7.4 | 8.5 | 7.8 | 7.2 | 7.4 | 8.0 | 6.6 | 7.1 | 8.5 | 6.3 | 7.4 |
| 14 | 9.7 | 7.6 | 8.5 | 8.1 | 7.2 | 7.6 | 7.4 | 6.7 | 7.1 | 9.4 | 7.5 | 8.4 |
| 15 | 8.7 | 7.7 | 8.2 | 8.3 | 7.1 | 7.6 | 7.7 | 7.0 | 7.4 | 9.8 | 8.2 | 8.9 |
| 16 | 8.1 | 7.5 | 7.8 | 8.4 | 6.8 | 7.5 | 9.2 | 7.1 | 8.0 | 9.2 | 8.0 | 8.6 |
| 17 | 8.2 | 7.8 | 8.0 | 8.5 | 6.5 | 7.4 | 9.4 | 7.2 | 8.2 | 10.0 | 8.2 | 9.1 |
| 18 | 8.0 | 7.6 | 7.9 | 8.5 | 6.2 | 7.4 | 8.7 | 7.0 | 7.8 | 10.2 | 8.6 | 9.4 |
| 19 | 8.5 | 7.8 | 8.1 | 8.0 | 6.0 | 7.0 | 9.1 | 7.2 | 8.0 | 10.2 | 8.4 | 9.3 |
| 20 | 9.0 | 7.7 | 8.3 | 8.2 | 6.1 | 7.1 | 9.6 | 7.2 | 8.3 | 9.9 | 8.2 | 9.0 |
| 21 | 9.7 | 7.7 | 8.6 | 8.6 | 6.3 | 7.5 | 9.5 | 6.9 | 8.2 | 9.0 | 7.7 | 8.3 |
| 22 | 10.3 | 7.5 | 8.9 | 8.0 | 6.4 | 7.3 | 9.3 | 6.6 | 7.9 | 9.6 | 7.8 | 8.7 |
| 23 | 10.7 | 7.3 | 9.0 | 8.6 | 6.2 | 7.4 | 9.0 | 6.6 | 7.6 | 10.2 | 8.5 | 9.3 |
| 24 | 10.3 | 7.0 | 8.7 | 8.6 | 6.7 | 7.7 | 9.9 | 6.9 | 8.4 | 10.3 | 8.7 | 9.5 |
| 25 | 9.6 | 6.2 | 8.0 | 9.3 | 7.0 | 8.2 | 9.6 | 7.1 | 8.4 | 10.3 | 8.6 | 9.5 |
| 26 | 8.9 | 5.7 | 7.3 | 9.3 | 7.4 | 8.4 | 9.8 | 7.0 | 8.3 | 10.3 | 8.5 | 9.4 |
| 27 | 8.4 | 5.9 | 7.1 | 8.9 | 7.2 | 8.0 | 9.9 | 6.9 | 8.2 | 10.1 | 8.3 | 9.2 |
| 28 | 8.3 | 5.7 | 6.8 | 9.6 | 7.1 | 8.2 | 8.7 | 6.5 | 7.6 | 9.9 | 8.1 | 9.0 |
| 29 | 7.6 | 5.6 | 6.8 | 9.8 | 7.3 | 8.6 | 10.0 | 6.4 | 7.8 | 10.2 | 8.3 | 9.2 |
| 30 | 7.2 | 6.7 | 6.9 | 9.2 | 7.1 | 8.2 | 9.7 | 6.8 | 8.1 | 10.2 | 8.4 | 9.3 |
| 31 | --- | --- | --- | 9.1 | 7.0 | 8.1 | 9.3 | 6.8 | 7.9 | --- | --- | --- |
| Month | 11.4 | 5.6 | 8.3 | 9.8 | 6.0 | 7.5 | 11.8 | 6.4 | 8.2 | 10.3 | 6.3 | 8.6 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|--------------|------|-----|------|------|------|------|--------|------|------|-----------|------|------|
| | June | | | July | | | August | | | September | | |
| 1 | --- | --- | --- | --- | --- | --- | 26.1 | 24.7 | 25.3 | 28.8 | 26.2 | 27.4 |
| 2 | --- | --- | --- | --- | --- | --- | 26.5 | 24.5 | 25.6 | 29.0 | 26.4 | 27.4 |
| 3 | --- | --- | --- | --- | --- | --- | 25.5 | 24.4 | 24.9 | 27.8 | 25.2 | 26.5 |
| 4 | --- | --- | --- | --- | --- | --- | 25.5 | 23.2 | 24.4 | 26.7 | 23.2 | 24.9 |
| 5 | --- | --- | --- | --- | --- | --- | 26.5 | 23.0 | 24.7 | 25.6 | 23.6 | 24.5 |
| 6 | --- | --- | --- | --- | --- | --- | 25.1 | 23.5 | 24.1 | 24.2 | 22.6 | 23.3 |
| 7 | --- | --- | --- | --- | --- | --- | 23.5 | 22.4 | 22.8 | 23.6 | 21.4 | 22.6 |
| 8 | --- | --- | --- | --- | --- | --- | 25.0 | 22.5 | 23.6 | 24.4 | 22.5 | 23.3 |
| 9 | --- | --- | --- | --- | --- | --- | 27.3 | 24.4 | 25.8 | 22.8 | 21.0 | 21.6 |
| 10 | --- | --- | --- | --- | --- | --- | 27.8 | 25.0 | 26.3 | 24.8 | 21.0 | 22.7 |
| 11 | --- | --- | --- | --- | --- | --- | 27.9 | 24.8 | 26.2 | 27.7 | 23.9 | 25.6 |
| 12 | --- | --- | --- | --- | --- | --- | 27.6 | 26.1 | 26.8 | 27.4 | 25.6 | 26.3 |
| 13 | --- | --- | --- | --- | --- | --- | 26.3 | 24.8 | 25.6 | 25.9 | 22.1 | 24.3 |
| 14 | --- | --- | --- | --- | --- | --- | 24.8 | 22.1 | 23.0 | 22.1 | 19.9 | 20.5 |
| 15 | --- | --- | --- | --- | --- | --- | 23.6 | 21.1 | 22.4 | 21.0 | 17.9 | 19.6 |
| 16 | --- | --- | --- | --- | --- | --- | 24.7 | 21.9 | 23.2 | 21.1 | 19.6 | 20.2 |
| 17 | --- | --- | --- | --- | --- | --- | 24.8 | 22.7 | 23.7 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | 23.9 | 23.0 | 23.4 | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | 23.2 | 22.1 | 22.7 | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | 26.0 | 22.3 | 23.9 | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | 27.4 | 23.6 | 25.4 | 21.3 | 19.6 | 20.3 |
| 22 | --- | --- | --- | --- | --- | --- | 27.9 | 25.3 | 26.5 | 20.0 | 18.4 | 19.2 |
| 23 | --- | --- | --- | --- | --- | --- | 26.6 | 25.3 | 25.8 | 19.0 | 16.7 | 17.8 |
| 24 | --- | --- | --- | --- | --- | --- | 26.9 | 22.9 | 24.9 | 19.7 | 16.0 | 17.8 |
| 25 | --- | --- | --- | 26.9 | 24.3 | 25.7 | 27.1 | 23.2 | 25.1 | 20.0 | 16.8 | 18.3 |
| 26 | --- | --- | --- | 28.0 | 24.2 | 26.0 | 27.1 | 23.7 | 25.3 | 20.6 | 16.9 | 18.6 |
| 27 | --- | --- | --- | 26.8 | 25.6 | 26.1 | 28.7 | 25.4 | 26.9 | 21.8 | 18.6 | 19.9 |
| 28 | --- | --- | --- | 26.1 | 24.6 | 25.3 | 27.9 | 26.3 | 27.1 | 21.2 | 19.1 | 20.0 |
| 29 | --- | --- | --- | 26.8 | 24.6 | 25.7 | 27.9 | 25.5 | 26.5 | 21.0 | 17.9 | 19.4 |
| 30 | --- | --- | --- | 26.6 | 24.5 | 25.5 | 28.8 | 25.8 | 27.1 | 21.8 | 17.8 | 19.8 |
| 31 | --- | --- | --- | 26.3 | 24.2 | 25.2 | 28.6 | 26.3 | 27.3 | --- | --- | --- |
| Month | --- | --- | --- | 28.0 | 24.2 | 25.6 | 28.8 | 21.1 | 25.0 | 29.0 | 16.0 | 22.0 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | --- | --- | --- | --- | --- | --- | 224 | 211 | 220 | 295 | 288 | 292 |
| 2 | --- | --- | --- | --- | --- | --- | 218 | 209 | 213 | 297 | 284 | 291 |
| 3 | --- | --- | --- | --- | --- | --- | 226 | 215 | 218 | 302 | 292 | 298 |
| 4 | --- | --- | --- | --- | --- | --- | 233 | 226 | 229 | 305 | 295 | 300 |
| 5 | --- | --- | --- | --- | --- | --- | 249 | 233 | 239 | 313 | 304 | 310 |
| 6 | --- | --- | --- | --- | --- | --- | 265 | 249 | 256 | 314 | 285 | 301 |
| 7 | --- | --- | --- | --- | --- | --- | 271 | 265 | 269 | 285 | 263 | 271 |
| 8 | --- | --- | --- | --- | --- | --- | 273 | 258 | 266 | 274 | 234 | 258 |
| 9 | --- | --- | --- | --- | --- | --- | 264 | 255 | 258 | 235 | 195 | 212 |
| 10 | --- | --- | --- | --- | --- | --- | 264 | 256 | 260 | 195 | 189 | 192 |
| 11 | --- | --- | --- | --- | --- | --- | 275 | 264 | 269 | 213 | 194 | 199 |
| 12 | --- | --- | --- | --- | --- | --- | 321 | 275 | 296 | 220 | 197 | 209 |
| 13 | --- | --- | --- | --- | --- | --- | 320 | 249 | 276 | 210 | 195 | 201 |
| 14 | --- | --- | --- | --- | --- | --- | 249 | 175 | 209 | 213 | 205 | 210 |
| 15 | --- | --- | --- | --- | --- | --- | 181 | 166 | 170 | 233 | 212 | 220 |
| 16 | --- | --- | --- | --- | --- | --- | 198 | 181 | 194 | 250 | 233 | 241 |
| 17 | --- | --- | --- | --- | --- | --- | 197 | 185 | 192 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | 188 | 183 | 186 | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | 198 | 188 | 193 | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | 213 | 196 | 203 | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | 233 | 213 | 220 | 238 | 225 | 229 |
| 22 | --- | --- | --- | --- | --- | --- | 234 | 218 | 224 | 238 | 227 | 233 |
| 23 | --- | --- | --- | --- | --- | --- | 241 | 229 | 235 | 241 | 234 | 236 |
| 24 | --- | --- | --- | --- | --- | --- | 241 | 234 | 238 | 254 | 240 | 246 |
| 25 | --- | --- | --- | 275 | 214 | 252 | 248 | 237 | 243 | 257 | 253 | 255 |
| 26 | --- | --- | --- | 293 | 273 | 278 | 258 | 243 | 250 | 261 | 255 | 257 |
| 27 | --- | --- | --- | 335 | 293 | 313 | 265 | 258 | 262 | 270 | 261 | 265 |
| 28 | --- | --- | --- | 335 | 318 | 325 | 268 | 263 | 266 | 278 | 270 | 271 |
| 29 | --- | --- | --- | 318 | 271 | 299 | 273 | 266 | 269 | 279 | 273 | 276 |
| 30 | --- | --- | --- | 271 | 245 | 256 | 280 | 271 | 277 | 281 | 271 | 275 |
| 31 | --- | --- | --- | 245 | 224 | 233 | 288 | 279 | 282 | --- | --- | --- |
| Month | --- | --- | --- | 335 | 214 | 279 | 321 | 166 | 238 | 314 | 189 | 252 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | October | | | November | | | December | | | January | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | June | | | July | | | August | | | September | | |
| 1 | --- | --- | --- | --- | --- | --- | 9.0 | 7.4 | 8.1 | 9.2 | 6.8 | 7.9 |
| 2 | --- | --- | --- | --- | --- | --- | 10.8 | 7.5 | 9.0 | 8.9 | 6.8 | 7.8 |
| 3 | --- | --- | --- | --- | --- | --- | 10.2 | 7.6 | 8.7 | 9.2 | 6.8 | 8.0 |
| 4 | --- | --- | --- | --- | --- | --- | 10.8 | 7.7 | 9.2 | 9.7 | 7.3 | 8.4 |
| 5 | --- | --- | --- | --- | --- | --- | 10.9 | 7.9 | 9.4 | 9.6 | 7.5 | 8.5 |
| 6 | --- | --- | --- | --- | --- | --- | 9.6 | 7.7 | 8.7 | 9.0 | 7.9 | 8.3 |
| 7 | --- | --- | --- | --- | --- | --- | 9.2 | 7.7 | 8.4 | 8.7 | 8.0 | 8.2 |
| 8 | --- | --- | --- | --- | --- | --- | 10.5 | 7.8 | 8.9 | 8.7 | 7.9 | 8.2 |
| 9 | --- | --- | --- | --- | --- | --- | 10.3 | 7.4 | 8.8 | 9.2 | 7.9 | 8.5 |
| 10 | --- | --- | --- | --- | --- | --- | 10.8 | 7.1 | 8.9 | 9.6 | 8.3 | 8.8 |
| 11 | --- | --- | --- | --- | --- | --- | 11.1 | 7.2 | 9.0 | 9.2 | 7.7 | 8.4 |
| 12 | --- | --- | --- | --- | --- | --- | 8.9 | 7.2 | 7.7 | 8.4 | 7.1 | 7.6 |
| 13 | --- | --- | --- | --- | --- | --- | 7.7 | 6.8 | 7.1 | 9.1 | 7.0 | 8.0 |
| 14 | --- | --- | --- | --- | --- | --- | 7.4 | 6.9 | 7.3 | 9.9 | 8.1 | 8.9 |
| 15 | --- | --- | --- | --- | --- | --- | 7.7 | 7.4 | 7.6 | 10.2 | 8.9 | 9.4 |
| 16 | --- | --- | --- | --- | --- | --- | 8.5 | 7.6 | 8.0 | 9.4 | 8.7 | 9.1 |
| 17 | --- | --- | --- | --- | --- | --- | 8.9 | 7.7 | 8.2 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | 8.3 | 7.6 | 7.9 | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | 8.8 | 7.8 | 8.2 | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | 9.3 | 7.9 | 8.5 | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | 9.3 | 7.6 | 8.3 | 9.2 | 8.6 | 8.9 |
| 22 | --- | --- | --- | --- | --- | --- | 9.2 | 7.4 | 8.1 | 10.3 | 8.4 | 9.3 |
| 23 | --- | --- | --- | --- | --- | --- | 9.1 | 7.1 | 8.0 | 10.9 | 9.2 | 10 |
| 24 | --- | --- | --- | --- | --- | --- | 10.1 | 7.6 | 8.8 | 11.1 | 9.5 | 10.2 |
| 25 | --- | --- | --- | 9.4 | 7.3 | 8.3 | 10.0 | 7.7 | 8.8 | 11.0 | 9.4 | 10.1 |
| 26 | --- | --- | --- | 9.8 | 7.7 | 8.7 | 10.1 | 7.6 | 8.7 | 11.1 | 9.2 | 10.1 |
| 27 | --- | --- | --- | 9.2 | 7.6 | 8.4 | 9.9 | 7.2 | 8.5 | 10.8 | 9.2 | 9.8 |
| 28 | --- | --- | --- | 9.9 | 7.5 | 8.5 | 9.1 | 6.8 | 7.9 | 10.8 | 9.0 | 9.7 |
| 29 | --- | --- | --- | 10.5 | 7.9 | 9.1 | 9.6 | 6.8 | 8.0 | 11.1 | 9.0 | 10 |
| 30 | --- | --- | --- | 9.5 | 7.6 | 8.6 | 9.4 | 7.0 | 8.1 | 11.2 | 9.0 | 10 |
| 31 | --- | --- | --- | 9.4 | 7.6 | 8.4 | 9.2 | 6.8 | 8.0 | --- | --- | --- |
| Month | --- | --- | --- | 10.5 | 7.3 | 8.6 | 11.1 | 6.8 | 8.3 | 11.2 | 6.8 | 8.9 |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Median | Max | Min | Median | Max | Min | Median | Max | Min | Median |
|-----|---------|-----|--------|----------|-----|--------|----------|-----|--------|---------|-----|--------|
| | October | | | November | | | December | | | January | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Max | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Min | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Median | Max | Min | Median | Max | Min | Median | Max | Min | Median |
|-----|----------|-----|--------|-------|-----|--------|-------|-----|--------|-----|-----|--------|
| | February | | | March | | | April | | | May | | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Max | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Min | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

| Day | Max | Min | Median | Max | Min | Median | Max | Min | Median | Max | Min | Median |
|------------|------|-----|--------|------|-----|--------|--------|-----|--------|-----------|-----|--------|
| | June | | | July | | | August | | | September | | |
| 1 | --- | --- | --- | --- | --- | --- | 8.5 | 8.1 | 8.2 | 8.7 | 8.0 | 8.5 |
| 2 | --- | --- | --- | --- | --- | --- | 9.0 | 8.0 | 8.6 | 8.6 | 7.9 | 8.2 |
| 3 | --- | --- | --- | --- | --- | --- | 8.9 | 8.3 | 8.6 | 8.7 | 7.8 | 8.2 |
| 4 | --- | --- | --- | --- | --- | --- | 9.0 | 8.0 | 8.6 | 8.8 | 8.1 | 8.4 |
| 5 | --- | --- | --- | --- | --- | --- | 9.1 | 8.3 | 8.8 | 8.7 | 8.1 | 8.4 |
| 6 | --- | --- | --- | --- | --- | --- | 8.8 | 8.3 | 8.6 | 8.5 | 8.0 | 8.2 |
| 7 | --- | --- | --- | --- | --- | --- | 8.5 | 8.0 | 8.2 | 8.0 | 7.9 | 7.9 |
| 8 | --- | --- | --- | --- | --- | --- | 8.7 | 7.9 | 8.2 | 8.2 | 7.9 | 8.0 |
| 9 | --- | --- | --- | --- | --- | --- | 8.9 | 8.1 | 8.6 | 8.3 | 8.0 | 8.1 |
| 10 | --- | --- | --- | --- | --- | --- | 9.1 | 8.1 | 8.7 | 8.6 | 8.0 | 8.1 |
| 11 | --- | --- | --- | --- | --- | --- | 9.1 | 8.3 | 8.8 | 8.8 | 8.2 | 8.4 |
| 12 | --- | --- | --- | --- | --- | --- | 9.0 | 7.9 | 8.2 | 8.6 | 8.2 | 8.3 |
| 13 | --- | --- | --- | --- | --- | --- | 8.0 | 7.7 | 7.9 | 8.6 | 8.0 | 8.2 |
| 14 | --- | --- | --- | --- | --- | --- | 7.7 | 7.6 | 7.6 | 8.9 | 8.3 | 8.5 |
| 15 | --- | --- | --- | --- | --- | --- | 7.6 | 7.5 | 7.5 | 9.2 | 8.5 | 8.8 |
| 16 | --- | --- | --- | --- | --- | --- | 7.8 | 7.6 | 7.7 | 8.8 | 8.5 | 8.7 |
| 17 | --- | --- | --- | --- | --- | --- | 8.0 | 7.6 | 7.7 | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | 7.8 | 7.6 | 7.7 | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | 8.0 | 7.6 | 7.8 | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | 8.5 | 7.8 | 8.0 | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | 8.6 | 7.9 | 8.2 | 8.9 | 8.2 | 8.6 |
| 22 | --- | --- | --- | --- | --- | --- | 8.7 | 8.0 | 8.2 | 8.6 | 8.0 | 8.2 |
| 23 | --- | --- | --- | --- | --- | --- | 8.7 | 8.0 | 8.3 | 9.0 | 8.3 | 8.8 |
| 24 | --- | --- | --- | --- | --- | --- | 8.9 | 7.9 | 8.3 | 9.1 | 8.8 | 9.0 |
| 25 | --- | --- | --- | 8.7 | 8.2 | 8.5 | 9.0 | 8.2 | 8.7 | 9.1 | 8.9 | 9.0 |
| 26 | --- | --- | --- | 8.8 | 8.2 | 8.5 | 9.0 | 8.3 | 8.8 | 9.2 | 8.8 | 9.0 |
| 27 | --- | --- | --- | 8.6 | 8.2 | 8.4 | 9.1 | 8.4 | 8.9 | 9.1 | 8.8 | 8.9 |
| 28 | --- | --- | --- | 8.6 | 8.2 | 8.4 | 8.9 | 8.2 | 8.7 | 9.1 | 8.7 | 8.9 |
| 29 | --- | --- | --- | 8.9 | 8.6 | 8.7 | 8.8 | 8.0 | 8.4 | 9.1 | 8.7 | 8.9 |
| 30 | --- | --- | --- | 8.6 | 8.2 | 8.4 | 8.8 | 8.0 | 8.6 | 9.2 | 8.7 | 9.0 |
| 31 | --- | --- | --- | 8.5 | 8.1 | 8.3 | 8.8 | 8.2 | 8.7 | --- | --- | --- |
| Max | --- | --- | --- | 8.9 | 8.6 | 8.7 | 9.1 | 8.4 | 8.9 | 9.2 | 8.9 | 9.0 |
| Min | --- | --- | --- | 8.5 | 8.1 | 8.3 | 7.6 | 7.5 | 7.5 | 8.0 | 7.8 | 7.9 |