

**09379500 SAN JUAN RIVER NEAR BLUFF, UT**

Lower San Juan Basin  
Lower San Juan Subbasin

LOCATION.--Lat 37°08'49", long 109°51'51" referenced to North American Datum of 1927, in SE ¼ NE ¼ SW ¼ sec.7, T.42 S., R.19 E., San Juan County, UT, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft above NGVD of 1929, from levels of Topographic Division, U.S. Geological Survey. Prior to March 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962.

EXTREMES FOR PERIOD OF RECORD.--(water years 1914-17, 1927-2005) maximum discharge, 70,000 ft<sup>3</sup>/s, Sep 10, 1927, gage height, 32.0 ft, from rating curve extended above 31,000 ft<sup>3</sup>/s, and slope-area measurement at gage height, 26.62 ft; no flow Jul 3-13, 1934, Aug 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sep 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,100 ft<sup>3</sup>/s, Jul 15, gage height, 13.16 ft; minimum daily discharge, 309 ft<sup>3</sup>/s, May 15.

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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            | 639    | 679    | 491    | e545   | e650   | 463    | 560    | 1,110  | 972    | 432    | 624    | 1,130   |
| 2            | 622    | 736    | 554    | e520   | 648    | 472    | 565    | 1,440  | 796    | 443    | 806    | 1,320   |
| 3            | 610    | 756    | 584    | e500   | 596    | 500    | 605    | 1,440  | 696    | 466    | 689    | 1,520   |
| 4            | 605    | 776    | 592    | e510   | 529    | 515    | 524    | 1,310  | 687    | 458    | 606    | 1,360   |
| 5            | 581    | 733    | 611    | e505   | 514    | 540    | 511    | 1,050  | 773    | 437    | 818    | 907     |
| 6            | 568    | 722    | 598    | e505   | 501    | 598    | 536    | 1,200  | 822    | 419    | 700    | 828     |
| 7            | 654    | 736    | 584    | e505   | 499    | 602    | 516    | 1,250  | 701    | 461    | 850    | 847     |
| 8            | 640    | 737    | 586    | e525   | 644    | 614    | 480    | 1,120  | 749    | 573    | 1,100  | 608     |
| 9            | 659    | 605    | 575    | e520   | 715    | 797    | 481    | 1,010  | 745    | 512    | 2,280  | 579     |
| 10           | 649    | 581    | 588    | e520   | 631    | 598    | 502    | 818    | 691    | 475    | e1,550 | 2,720   |
| 11           | 643    | 613    | 572    | e520   | 584    | 659    | 735    | 722    | 621    | 456    | e1,350 | 5,690   |
| 12           | 580    | 695    | 576    | e510   | 572    | 640    | 835    | 508    | 656    | 462    | e1,070 | 3,780   |
| 13           | 600    | 694    | 652    | e505   | 584    | 596    | 752    | 438    | 601    | 763    | 1,030  | 6,290   |
| 14           | 545    | 629    | 670    | e505   | 541    | 566    | 635    | 365    | 516    | 749    | 1,290  | 7,260   |
| 15           | 569    | 612    | 690    | e505   | 543    | 509    | 547    | 309    | 436    | 1,660  | 741    | 5,790   |
| 16           | 605    | 642    | 775    | e515   | 534    | 463    | 511    | 329    | 371    | 1,590  | 659    | 5,860   |
| 17           | 649    | 612    | 792    | e520   | 548    | 430    | 438    | 1,270  | 330    | 1,140  | 518    | 4,000   |
| 18           | 702    | 572    | 710    | e525   | 556    | 434    | 423    | 1,750  | 464    | 2,190  | 469    | 3,420   |
| 19           | 699    | 567    | 676    | e525   | 560    | 471    | 415    | 2,080  | 433    | 967    | 455    | 3,390   |
| 20           | 688    | 568    | 641    | e525   | 552    | 462    | 428    | 1,940  | 385    | 797    | 519    | 4,380   |
| 21           | 706    | 568    | 596    | e525   | 544    | 472    | 421    | 1,550  | 588    | 566    | 551    | 2,840   |
| 22           | 711    | 566    | 603    | e525   | 558    | 502    | 444    | 1,220  | 598    | 934    | 538    | 2,220   |
| 23           | 699    | 561    | 591    | e530   | 571    | 465    | 444    | 1,040  | 609    | 1,140  | 532    | 6,220   |
| 24           | 711    | 546    | 595    | e575   | 550    | 441    | 440    | 1,100  | 571    | 719    | 1,140  | 6,810   |
| 25           | 685    | 500    | 613    | e580   | 518    | 440    | 488    | 1,640  | 533    | 586    | 961    | 3,770   |
| 26           | 568    | 503    | 572    | e600   | 497    | 427    | 582    | 1,820  | 485    | 510    | 5,580  | 2,650   |
| 27           | 582    | 498    | 596    | e630   | 493    | 436    | 729    | 1,760  | 484    | 430    | 6,230  | 1,980   |
| 28           | 604    | 489    | 562    | e625   | 483    | 505    | 721    | 1,690  | 461    | 380    | 2,590  | 1,600   |
| 29           | 651    | 480    | 554    | e600   | ---    | 604    | 673    | 1,620  | 369    | 354    | 2,810  | 1,520   |
| 30           | 648    | 485    | e550   | e625   | ---    | 604    | 704    | 1,490  | 366    | 494    | 2,040  | 1,460   |
| 31           | 663    | ---    | e545   | e650   | ---    | 592    | ---    | 1,200  | ---    | 521    | 1,120  | ---     |
| <b>Total</b> | 19,735 | 18,461 | 18,894 | 16,775 | 15,715 | 16,417 | 16,645 | 37,589 | 17,509 | 22,084 | 42,216 | 92,749  |
| <b>Mean</b>  | 637    | 615    | 609    | 541    | 561    | 530    | 555    | 1,213  | 584    | 712    | 1,362  | 3,092   |
| <b>Max</b>   | 711    | 776    | 792    | 650    | 715    | 797    | 835    | 2,080  | 972    | 2,190  | 6,230  | 7,260   |
| <b>Min</b>   | 545    | 480    | 491    | 500    | 483    | 427    | 415    | 309    | 330    | 354    | 455    | 579     |
| <b>Ac-ft</b> | 39,140 | 36,620 | 37,480 | 33,270 | 31,170 | 32,560 | 33,020 | 74,560 | 34,730 | 43,800 | 83,740 | 184,000 |

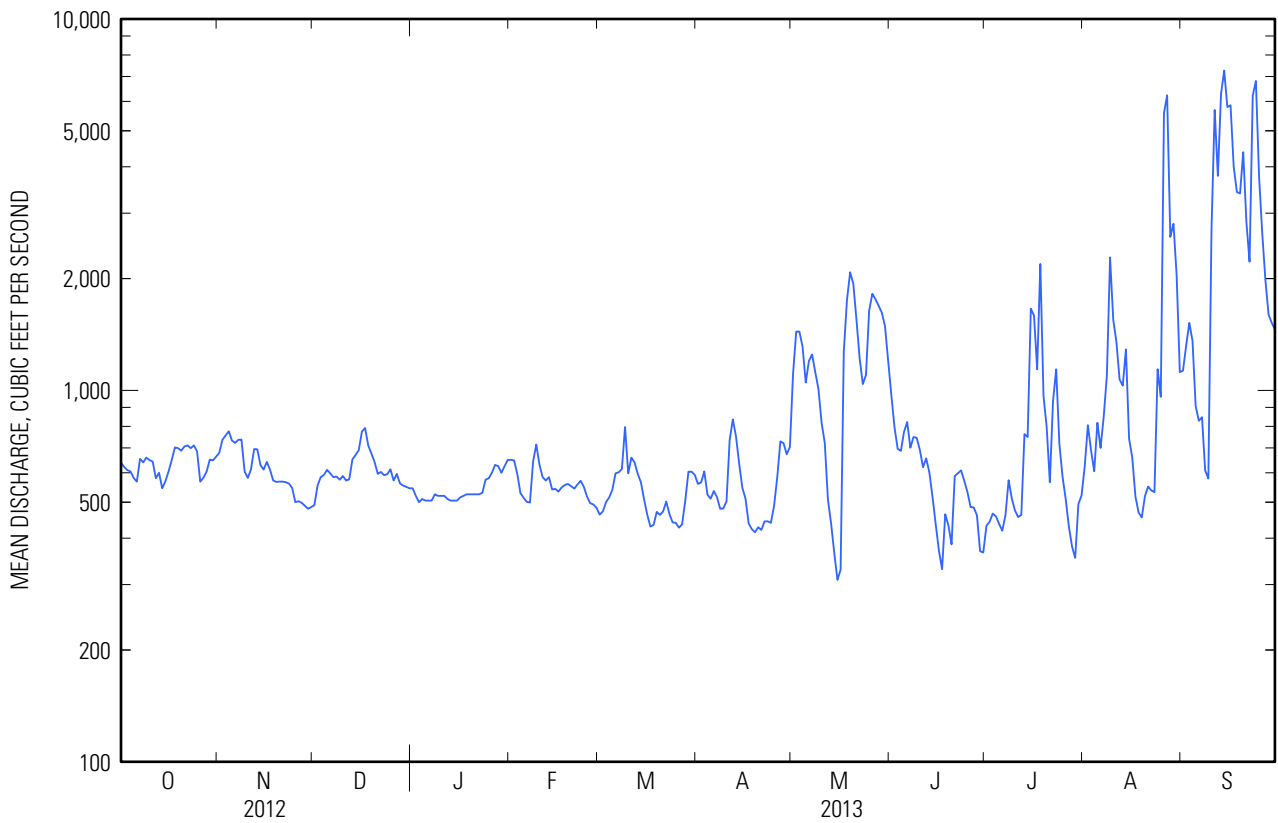
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2013, BY WATER YEAR (WY)**

|             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Mean</b> | 1,491  | 1,186  | 1,061  | 1,083  | 1,370  | 1,783  | 3,154  | 4,940  | 5,267  | 2,315  | 1,683  | 1,604  |
| <b>Max</b>  | 10,650 | 4,435  | 3,821  | 3,374  | 3,683  | 6,209  | 10,120 | 21,520 | 15,380 | 9,212  | 9,335  | 11,870 |
| <b>(WY)</b> | (1942) | (1987) | (1966) | (1986) | (1987) | (1916) | (1942) | (1941) | (1941) | (1957) | (1929) | (1927) |
| <b>Min</b>  | 205    | 345    | 408    | 335    | 516    | 463    | 399    | 339    | 479    | 236    | 80.4   | 64.5   |
| <b>(WY)</b> | (1957) | (1935) | (1957) | (1931) | (2004) | (1964) | (1977) | (1977) | (2002) | (1963) | (1939) | (1956) |

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SUMMARY STATISTICS

|                                 | Calendar Year 2012 |        | Water Year 2013 |        | Water Years 1915 - 2013 |              |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| <b>Annual total</b>             | 339,074            |        | 334,789         |        |                         |              |
| <b>Annual mean</b>              | 926                |        | 917             |        | 2,152                   |              |
| <b>Highest annual mean</b>      |                    |        |                 |        | 5,859                   | 1941         |
| <b>Lowest annual mean</b>       |                    |        |                 |        | 742                     | 2002         |
| <b>Highest daily mean</b>       | 5,650              | May 26 | 7,260           | Sep 14 | 52,000                  | Jun 30, 1927 |
| <b>Lowest daily mean</b>        | 383                | Jun 18 | 309             | May 15 | 0.00                    | Jul 3, 1934  |
| <b>Annual seven-day minimum</b> | 432                | Jun 17 | 419             | Jun 14 | 0.00                    | Jul 3, 1934  |
| <b>Annual runoff (ac-ft)</b>    | 672,600            |        | 664,100         |        | 1,559,000               |              |
| <b>10 percent exceeds</b>       | 1,390              |        | 1,570           |        | 5,180                   |              |
| <b>50 percent exceeds</b>       | 710                |        | 598             |        | 1,170                   |              |
| <b>90 percent exceeds</b>       | 546                |        | 461             |        | 502                     |              |



**09379500 SAN JUAN RIVER NEAR BLUFF, UT—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1977, October 1980 to July 1999, July 2000 to current year.  
WATER TEMPERATURE: May 1944 to September 1961, October 1964 to September 1999, July 2000 to current year.  
SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

INSTRUMENTATION.--Water-quality monitor October 1980 to September 1999, July 2000 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available at the USGS Utah Water Science Center, Salt Lake City, UT.

Water temperature records excellent.

Specific conductance records are excellent except for Oct 5-18 and Jun 26 to Jul 21, which are good; and Jul 22, 23, and 24, which are fair.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 33.4 °C, Aug 14, 1998; minimum, -0.2 °C, on many days.  
SPECIFIC CONDUCTANCE: Maximum daily, 2,790 microsiemens/cm, Sep 19, 1959; minimum daily, 208 microsiemens/cm, Jun 17, 1952.  
SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L, Sep 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.  
SEDIMENT LOADS: Maximum daily, 15,700,000 tons, Oct 20, 1972; minimum daily, no flow on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 30.5 °C, Jun 29; minimum, -0.1 °C, on many days.  
SPECIFIC CONDUCTANCE: Maximum, 2,500 microsiemens/cm, Aug 25; minimum, 320 microsiemens/cm, May 21.

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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            | 19.4    | 16.1 | 17.6 | 11.2     | 8.7 | 9.9  | 6.4      | 4.0  | 5.0  | 0.0     | -0.1 | 0.0  |
| 2            | 19.6    | 16.1 | 17.7 | 11.1     | 8.9 | 9.9  | 6.9      | 4.5  | 5.5  | 0.0     | -0.1 | 0.0  |
| 3            | 19.3    | 16.0 | 17.6 | 10.2     | 8.0 | 9.1  | 7.5      | 5.2  | 6.2  | 0.0     | -0.1 | 0.0  |
| 4            | 19.0    | 16.2 | 17.5 | 9.6      | 7.4 | 8.6  | 7.0      | 5.4  | 6.0  | 0.0     | -0.1 | 0.0  |
| 5            | 18.4    | 15.5 | 16.9 | 10.1     | 7.6 | 8.8  | 6.1      | 4.4  | 5.1  | 0.0     | -0.1 | 0.0  |
| 6            | 18.5    | 15.3 | 16.7 | 10.5     | 8.0 | 9.1  | 6.5      | 4.2  | 5.1  | 0.0     | -0.1 | 0.0  |
| 7            | 17.0    | 14.3 | 15.6 | 10.6     | 8.3 | 9.3  | 6.2      | 4.1  | 5.0  | 0.0     | -0.1 | -0.1 |
| 8            | 15.7    | 12.9 | 14.3 | 10.5     | 8.2 | 9.4  | 5.9      | 3.8  | 4.6  | 0.0     | -0.1 | -0.1 |
| 9            | 16.1    | 12.7 | 14.4 | 11.2     | 9.5 | 10.2 | 4.6      | 2.1  | 3.5  | 0.0     | -0.1 | -0.1 |
| 10           | 16.8    | 13.4 | 15.0 | 10.0     | 7.2 | 8.9  | 2.4      | 0.4  | 1.3  | 0.0     | -0.1 | 0.0  |
| 11           | 16.3    | 13.9 | 15.2 | 7.2      | 4.7 | 6.1  | 1.5      | -0.1 | 0.4  | 0.0     | -0.1 | 0.0  |
| 12           | 16.2    | 14.2 | 15.3 | 5.5      | 3.5 | 4.5  | 0.6      | -0.1 | 0.1  | 0.0     | -0.1 | 0.0  |
| 13           | 16.0    | 13.2 | 14.4 | 5.1      | 2.8 | 3.8  | 1.0      | -0.1 | 0.3  | 0.0     | -0.1 | 0.0  |
| 14           | 16.4    | 13.3 | 14.7 | 4.7      | 2.4 | 3.4  | 2.5      | 0.6  | 1.6  | 0.0     | -0.1 | 0.0  |
| 15           | 16.8    | 13.4 | 15.0 | 4.6      | 2.3 | 3.4  | 3.2      | 2.1  | 2.6  | ---     | ---  | ---  |
| 16           | 16.7    | 13.4 | 15.0 | 6.4      | 3.7 | 4.9  | 2.6      | 1.1  | 1.8  | ---     | ---  | ---  |
| 17           | 16.1    | 13.8 | 14.8 | 7.4      | 4.7 | 6.0  | 3.0      | 1.4  | 2.2  | ---     | ---  | ---  |
| 18           | 14.4    | 11.9 | 13.1 | 8.8      | 6.1 | 7.2  | 3.4      | 2.4  | 2.9  | ---     | ---  | ---  |
| 19           | 14.3    | 11.2 | 12.7 | 9.1      | 6.6 | 7.6  | 3.5      | 1.6  | 2.6  | ---     | ---  | ---  |
| 20           | 14.0    | 10.9 | 12.4 | 8.5      | 6.1 | 7.1  | 1.6      | -0.1 | 0.6  | ---     | ---  | ---  |
| 21           | 14.4    | 11.2 | 12.6 | 7.8      | 5.4 | 6.4  | 0.0      | -0.1 | 0.0  | ---     | ---  | ---  |
| 22           | 14.8    | 12.1 | 13.3 | 7.4      | 5.0 | 6.0  | 0.0      | 0.0  | 0.0  | ---     | ---  | ---  |
| 23           | 15.2    | 12.6 | 13.7 | 7.1      | 4.7 | 5.7  | 0.0      | 0.0  | 0.0  | ---     | ---  | ---  |
| 24           | 14.4    | 12.1 | 13.1 | 6.5      | 4.1 | 5.1  | 0.7      | -0.1 | 0.2  | ---     | ---  | ---  |
| 25           | 12.8    | 10.2 | 11.4 | 6.1      | 3.5 | 4.5  | 0.8      | -0.1 | 0.1  | ---     | ---  | ---  |
| 26           | 11.4    | 8.5  | 9.8  | 5.9      | 3.4 | 4.3  | 1.0      | 0.0  | 0.3  | ---     | ---  | ---  |
| 27           | 9.9     | 7.4  | 8.7  | 5.5      | 3.0 | 3.9  | 1.6      | -0.1 | 0.5  | ---     | ---  | ---  |
| 28           | 10.6    | 7.6  | 8.9  | 5.0      | 2.5 | 3.5  | 1.9      | -0.1 | 0.5  | ---     | ---  | ---  |
| 29           | 10.8    | 7.9  | 9.3  | 5.1      | 2.7 | 3.7  | 0.3      | -0.1 | 0.0  | ---     | ---  | ---  |
| 30           | 11.1    | 8.2  | 9.5  | 5.2      | 3.3 | 4.2  | 0.0      | -0.1 | 0.0  | ---     | ---  | ---  |
| 31           | 11.4    | 8.5  | 9.8  | ---      | --- | ---  | 0.3      | 0.0  | 0.0  | ---     | ---  | ---  |
| <b>Month</b> | 19.6    | 7.4  | 13.7 | 11.2     | 2.3 | 6.5  | 7.5      | -0.1 | 2.1  | ---     | ---  | ---  |

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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            | ---      | --- | ---  | 8.1   | 3.2  | 5.4  | 18.0  | 14.4 | 16.1 | 17.9 | 15.7 | 16.9 |
| 2            | ---      | --- | ---  | 9.5   | 4.8  | 6.9  | 16.7  | 13.0 | 14.8 | 16.6 | 13.8 | 15.3 |
| 3            | ---      | --- | ---  | 9.3   | 6.6  | 7.8  | 17.0  | 12.2 | 14.5 | 16.2 | 12.8 | 14.6 |
| 4            | ---      | --- | ---  | 11.8  | 7.8  | 9.2  | 17.2  | 12.8 | 15.0 | 17.1 | 13.3 | 15.3 |
| 5            | 4.9      | --- | ---  | 10.8  | 7.1  | 8.8  | 17.6  | 14.0 | 15.6 | 17.8 | 15.2 | 16.6 |
| 6            | 5.2      | 3.0 | 3.9  | 10.7  | 6.9  | 8.7  | 18.3  | 14.0 | 16.0 | 17.3 | 14.9 | 16.1 |
| 7            | 5.9      | 3.0 | 4.1  | 11.9  | 8.0  | 9.7  | 18.1  | 13.8 | 15.8 | 17.6 | 15.2 | 16.3 |
| 8            | 6.0      | 3.4 | 4.6  | 10.1  | 7.9  | 9.1  | 15.5  | 12.2 | 14.0 | 17.9 | 15.2 | 16.5 |
| 9            | 4.8      | 3.9 | 4.2  | 8.2   | 6.6  | 7.4  | 14.9  | 11.2 | 12.6 | 17.9 | 15.3 | 16.3 |
| 10           | 3.9      | 3.0 | 3.4  | 9.4   | 5.5  | 7.2  | 14.1  | 9.4  | 11.4 | 18.6 | 15.2 | 16.8 |
| 11           | 4.6      | 2.2 | 3.0  | 10.3  | 6.6  | 8.4  | 13.5  | 9.7  | 11.4 | 20.2 | 15.3 | 17.6 |
| 12           | 4.4      | 1.5 | 2.8  | 11.5  | 7.5  | 9.4  | 14.3  | 9.6  | 11.9 | 21.9 | 16.6 | 19.2 |
| 13           | 4.7      | 1.6 | 3.0  | 13.2  | 8.7  | 10.8 | 13.8  | 10.8 | 12.4 | 23.9 | 18.0 | 20.8 |
| 14           | 5.3      | 2.2 | 3.6  | 14.3  | 9.9  | 11.9 | 15.6  | 11.4 | 13.4 | 25.4 | 19.1 | 21.9 |
| 15           | 6.0      | 2.5 | 4.0  | 14.8  | 10.8 | 12.7 | 16.0  | 11.9 | 13.8 | ---  | ---  | ---  |
| 16           | 6.3      | 2.9 | 4.4  | 14.1  | 11.7 | 12.7 | 15.3  | 12.2 | 13.5 | ---  | ---  | ---  |
| 17           | 6.7      | 3.4 | 4.9  | 14.9  | 10.9 | 12.4 | 12.9  | 10.1 | 11.8 | 20.9 | 18.6 | 19.7 |
| 18           | 6.6      | 3.5 | 4.9  | 14.8  | 10.4 | 12.3 | 12.6  | 8.4  | 10.3 | 19.7 | 17.8 | 18.8 |
| 19           | 5.4      | 3.1 | 4.3  | 14.1  | 10.6 | 12.0 | 14.1  | 8.2  | 10.9 | 19.6 | 17.1 | 18.3 |
| 20           | 5.2      | 3.7 | 4.3  | 12.0  | 10.0 | 11.0 | 15.4  | 10.5 | 12.7 | 18.6 | 16.2 | 17.3 |
| 21           | 6.2      | 2.9 | 4.3  | 13.8  | 9.3  | 11.2 | 17.2  | 11.4 | 14.0 | 19.5 | 16.2 | 17.8 |
| 22           | 6.8      | 3.8 | 5.0  | 13.9  | 9.7  | 11.4 | 18.1  | 13.0 | 15.3 | 20.2 | 17.0 | 18.7 |
| 23           | 5.8      | 3.2 | 4.4  | 11.2  | 7.6  | 9.3  | 16.8  | 12.7 | 14.7 | 20.3 | 17.0 | 18.8 |
| 24           | 4.0      | 2.3 | 3.2  | 11.2  | 6.3  | 8.5  | 17.3  | 11.6 | 14.2 | 20.3 | 16.8 | 18.8 |
| 25           | 5.5      | 1.5 | 3.3  | 11.9  | 6.5  | 8.9  | 17.4  | 12.8 | 15.1 | 20.9 | 18.2 | 19.5 |
| 26           | 5.7      | 2.3 | 3.7  | 11.4  | 8.2  | 9.6  | 18.4  | 14.1 | 16.2 | 20.4 | 18.1 | 19.3 |
| 27           | 6.0      | 2.0 | 3.7  | 13.7  | 8.5  | 10.9 | 18.2  | 13.8 | 16.1 | 20.8 | 17.6 | 19.2 |
| 28           | 6.3      | 2.2 | 4.1  | 15.0  | 10.6 | 12.8 | 19.0  | 14.3 | 16.7 | 20.0 | 18.2 | 19.2 |
| 29           | ---      | --- | ---  | 16.4  | 11.9 | 14.0 | 20.3  | 15.5 | 17.9 | 20.2 | 17.4 | 18.8 |
| 30           | ---      | --- | ---  | 16.4  | 12.5 | 14.4 | 20.2  | 16.8 | 18.4 | 20.5 | 17.4 | 19.0 |
| 31           | ---      | --- | ---  | 18.1  | 13.5 | 15.7 | ---   | ---  | ---  | 21.2 | 17.5 | 19.5 |
| <b>Month</b> | ---      | --- | ---  | 18.1  | 3.2  | 10.3 | 20.3  | 8.2  | 14.2 | ---  | ---  | ---  |

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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     | 21.9 | 17.6 | 19.9 | 29.5 | 23.0 | 26.3 | 26.4   | 24.1 | 25.0 | 26.8      | 24.1 | 25.5 |
| 2     | 23.1 | 18.3 | 20.7 | 28.8 | 23.9 | 26.7 | 26.6   | 23.4 | 24.9 | 26.7      | 24.4 | 25.6 |
| 3     | 23.4 | 19.8 | 21.8 | 29.9 | 24.4 | 27.1 | 27.4   | 23.1 | 25.2 | 26.5      | 24.2 | 25.4 |
| 4     | 25.1 | 20.2 | 22.6 | 29.0 | 24.5 | 26.7 | 27.3   | 24.0 | 25.4 | 26.2      | 24.2 | ---  |
| 5     | 25.0 | 20.8 | 23.0 | 29.1 | 25.0 | 26.5 | 26.8   | 23.3 | 25.0 | 26.8      | 23.9 | 25.3 |
| 6     | 25.2 | 21.2 | 23.3 | 27.7 | 23.9 | 25.5 | 25.8   | 23.3 | 24.4 | 26.7      | 23.0 | 25.1 |
| 7     | 25.7 | 21.2 | 23.6 | 29.6 | 23.3 | 26.1 | 24.0   | 22.8 | 23.3 | 26.2      | 23.2 | 24.4 |
| 8     | 25.9 | 21.8 | 23.9 | 27.7 | 24.7 | 26.4 | 24.9   | 21.3 | 23.1 | 23.6      | 22.1 | 22.9 |
| 9     | 26.8 | 21.8 | 24.4 | 29.1 | 25.0 | 26.9 | 23.7   | 22.2 | 22.9 | 22.9      | 20.1 | 21.8 |
| 10    | 26.4 | 22.5 | 24.3 | 29.0 | 24.2 | 26.5 | 22.2   | 20.6 | 21.2 | 21.4      | 18.9 | 20.5 |
| 11    | 25.6 | 20.8 | 23.3 | 27.4 | 24.9 | 26.0 | 22.3   | 19.4 | 20.9 | 21.5      | 18.8 | 20.5 |
| 12    | 26.8 | 22.1 | 24.5 | 27.6 | 24.6 | 26.0 | 23.8   | 20.2 | 22.1 | 22.4      | 20.2 | 21.3 |
| 13    | 24.9 | 22.5 | 23.8 | 28.0 | 24.7 | 26.4 | 24.9   | 21.5 | 23.3 | 22.6      | 20.6 | 21.6 |
| 14    | 26.0 | 20.3 | 23.2 | 28.8 | 25.0 | 26.8 | 24.4   | 21.8 | 23.1 | ---       | ---  | ---  |
| 15    | 25.0 | 21.5 | 23.1 | 28.9 | 22.0 | 26.3 | 24.8   | 21.2 | 23.0 | ---       | ---  | ---  |
| 16    | 26.9 | 20.7 | 23.6 | 28.4 | 23.0 | 25.8 | 26.0   | 21.8 | 23.9 | ---       | ---  | ---  |
| 17    | 27.9 | ---  | ---  | 27.8 | 24.9 | 26.6 | 25.4   | 22.9 | 24.0 | ---       | ---  | ---  |
| 18    | 26.9 | 21.8 | 24.2 | 27.0 | 24.3 | 25.6 | 26.6   | 21.7 | 23.8 | ---       | ---  | ---  |
| 19    | 25.4 | 20.9 | 22.9 | 26.7 | 23.9 | 25.3 | 28.5   | 23.2 | 25.5 | 20.7      | 16.4 | 19.4 |
| 20    | 25.4 | 19.4 | 22.1 | 28.4 | 24.2 | 26.2 | 28.3   | 24.3 | 26.1 | 20.5      | 18.2 | 19.1 |
| 21    | 25.0 | 20.2 | 22.5 | 29.9 | 24.6 | 26.7 | 28.3   | 24.5 | 25.9 | 19.7      | 18.1 | 19.0 |
| 22    | 25.1 | 20.5 | 22.8 | 27.6 | 23.8 | 25.8 | 27.3   | 23.8 | 25.3 | 19.5      | 17.2 | 18.6 |
| 23    | 25.3 | 20.9 | 23.1 | 26.0 | 23.8 | 24.9 | 27.5   | 24.1 | 25.3 | 17.2      | 13.3 | 14.8 |
| 24    | 23.8 | 20.7 | 22.1 | 27.0 | 24.1 | 25.4 | 24.7   | 22.9 | 23.8 | 15.4      | 13.8 | 14.6 |
| 25    | 25.5 | 19.2 | 22.3 | 28.4 | 23.5 | 25.8 | 23.9   | 21.8 | 22.6 | 15.9      | 14.2 | 15.1 |
| 26    | 27.7 | 21.8 | 24.7 | 29.5 | 24.9 | 26.7 | 22.8   | 21.1 | 21.9 | 15.9      | 14.3 | 15.2 |
| 27    | 29.3 | 23.3 | 26.2 | 26.4 | 23.3 | 24.5 | 23.7   | 20.9 | 22.1 | 15.8      | 14.2 | 15.0 |
| 28    | 29.3 | 24.4 | 26.7 | 26.5 | 23.3 | 24.5 | 25.1   | 22.5 | 23.8 | 15.4      | 13.6 | 14.7 |
| 29    | 30.5 | 24.3 | 26.9 | 26.8 | 22.6 | 24.2 | 24.7   | 23.1 | 24.0 | 15.1      | 13.0 | 14.3 |
| 30    | 29.7 | 24.5 | 26.5 | 27.0 | 22.3 | 24.5 | 25.7   | 23.2 | 24.6 | 15.8      | 13.4 | 14.8 |
| 31    | ---  | ---  | ---  | 27.9 | 23.0 | 25.3 | 26.9   | 24.0 | 25.3 | ---       | ---  | ---  |
| Month | 30.5 | ---  | ---  | 29.9 | 22.0 | 25.9 | 28.5   | 19.4 | 23.9 | ---       | ---  | ---  |

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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 |     |      |
| <b>1</b>     | 579     | 553 | 567  | 686      | 676 | 681  | 823      | 798 | 815  | 874     | 794 | 849  |
| <b>2</b>     | 599     | 575 | 583  | 676      | 668 | 673  | 824      | 804 | 814  | 884     | 822 | 856  |
| <b>3</b>     | 604     | 573 | 583  | 677      | 661 | 668  | 810      | 778 | 790  | 854     | 821 | 836  |
| <b>4</b>     | 589     | 567 | 581  | 678      | 670 | 675  | 787      | 774 | 782  | 862     | 830 | 850  |
| <b>5</b>     | 600     | 562 | 582  | 677      | 665 | 670  | 786      | 775 | 781  | 885     | 853 | 870  |
| <b>6</b>     | 585     | 571 | 581  | 667      | 658 | 662  | 779      | 769 | 774  | 917     | 884 | 902  |
| <b>7</b>     | 589     | 555 | 573  | 658      | 651 | 655  | 773      | 766 | 770  | 933     | 917 | 927  |
| <b>8</b>     | 563     | 539 | 551  | 656      | 648 | 651  | 785      | 771 | 778  | 935     | 921 | 930  |
| <b>9</b>     | 546     | 514 | 533  | 673      | 654 | 658  | 789      | 777 | 782  | 921     | 841 | 890  |
| <b>10</b>    | 544     | 517 | 534  | 730      | 673 | 699  | 796      | 786 | 792  | 853     | 797 | 825  |
| <b>11</b>    | 568     | 528 | 548  | 816      | 730 | 770  | 804      | 782 | 794  | 810     | 779 | 796  |
| <b>12</b>    | 556     | 534 | 550  | 855      | 816 | 836  | 814      | 757 | 782  | 812     | 788 | 799  |
| <b>13</b>    | 589     | 547 | 566  | 850      | 810 | 824  | 789      | 756 | 768  | 813     | 795 | 805  |
| <b>14</b>    | 670     | 576 | 626  | 885      | 810 | 841  | 792      | 749 | 771  | 815     | 788 | 800  |
| <b>15</b>    | 649     | 610 | 628  | 885      | 827 | 856  | 791      | 763 | 778  | ---     | --- | ---  |
| <b>16</b>    | 646     | 598 | 619  | 827      | 808 | 814  | 800      | 763 | 778  | ---     | --- | ---  |
| <b>17</b>    | 630     | 591 | 614  | 810      | 800 | 803  | 773      | 756 | 765  | ---     | --- | ---  |
| <b>18</b>    | 651     | 603 | 630  | 814      | 795 | 803  | 791      | 756 | 778  | ---     | --- | ---  |
| <b>19</b>    | 630     | 620 | 628  | 824      | 813 | 818  | 825      | 791 | 807  | ---     | --- | ---  |
| <b>20</b>    | 620     | 612 | 614  | 822      | 817 | 820  | 844      | 825 | 833  | ---     | --- | ---  |
| <b>21</b>    | 615     | 607 | 612  | 821      | 809 | 815  | 841      | 825 | 833  | ---     | --- | ---  |
| <b>22</b>    | 609     | 605 | 607  | 825      | 805 | 815  | 843      | 811 | 827  | ---     | --- | ---  |
| <b>23</b>    | 608     | 605 | 607  | 810      | 805 | 807  | 818      | 808 | 813  | ---     | --- | ---  |
| <b>24</b>    | 610     | 603 | 606  | 810      | 802 | 806  | 854      | 791 | 822  | ---     | --- | ---  |
| <b>25</b>    | 616     | 600 | 607  | 810      | 803 | 807  | 899      | 809 | 849  | ---     | --- | ---  |
| <b>26</b>    | 626     | 613 | 616  | 818      | 808 | 812  | 862      | 816 | 835  | ---     | --- | ---  |
| <b>27</b>    | 664     | 626 | 644  | 816      | 806 | 812  | 846      | 812 | 827  | ---     | --- | ---  |
| <b>28</b>    | 695     | 664 | 685  | 823      | 812 | 816  | 856      | 823 | 838  | ---     | --- | ---  |
| <b>29</b>    | 687     | 677 | 682  | 819      | 804 | 812  | 843      | 830 | 837  | ---     | --- | ---  |
| <b>30</b>    | 679     | 672 | 675  | 821      | 798 | 813  | 856      | 815 | 837  | ---     | --- | ---  |
| <b>31</b>    | 679     | 670 | 676  | ---      | --- | ---  | 859      | 783 | 819  | ---     | --- | ---  |
| <b>Month</b> | 695     | 514 | 603  | 885      | 648 | 766  | 899      | 749 | 802  | ---     | --- | ---  |



## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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     | ---      | --- | ---  | 864   | 798 | 825  | 689   | 680 | 684  | 585 | 562 | 572  |
| 2     | ---      | --- | ---  | 849   | 803 | 822  | 692   | 683 | 688  | 585 | 503 | 549  |
| 3     | ---      | --- | ---  | 850   | 795 | 818  | 699   | 680 | 689  | 503 | 427 | 458  |
| 4     | ---      | --- | ---  | 832   | 777 | 801  | 715   | 681 | 695  | 433 | 412 | 421  |
| 5     | ---      | --- | ---  | 910   | 802 | 848  | 690   | 683 | 687  | 431 | 415 | 421  |
| 6     | 1,060    | 938 | 996  | 908   | 851 | 887  | 689   | 666 | 676  | 463 | 429 | 445  |
| 7     | 1,010    | 911 | 960  | 889   | 812 | 849  | 694   | 663 | 675  | 470 | 439 | 454  |
| 8     | 1,010    | 910 | 960  | 844   | 796 | 823  | 702   | 678 | 690  | 440 | 430 | 433  |
| 9     | 938      | 829 | 868  | 847   | 701 | 770  | 700   | 668 | 681  | 475 | 438 | 463  |
| 10    | 829      | 759 | 786  | 851   | 795 | 825  | 684   | 665 | 675  | 500 | 473 | 486  |
| 11    | 832      | 801 | 813  | 837   | 814 | 824  | 690   | 674 | 680  | 646 | 500 | 535  |
| 12    | 856      | 832 | 848  | 824   | 801 | 810  | 746   | 679 | 703  | 668 | 567 | 599  |
| 13    | 861      | 804 | 833  | 834   | 824 | 830  | 1,020 | 732 | 923  | 683 | 615 | 645  |
| 14    | 832      | 794 | 810  | 832   | 812 | 820  | 928   | 787 | 832  | 714 | 673 | 687  |
| 15    | 831      | 791 | 810  | 830   | 820 | 823  | 820   | 734 | 765  | --- | --- | ---  |
| 16    | 864      | 825 | 838  | 915   | 830 | 862  | 737   | 706 | 724  | --- | --- | ---  |
| 17    | 871      | 819 | 841  | 950   | 877 | 908  | 726   | 667 | 693  | 771 | 562 | 701  |
| 18    | 844      | 808 | 824  | 956   | 941 | 950  | 734   | 684 | 715  | 562 | 396 | 457  |
| 19    | 828      | 810 | 820  | 960   | 942 | 954  | 754   | 656 | 711  | 396 | 358 | 377  |
| 20    | 835      | 813 | 825  | 956   | 904 | 919  | 767   | 684 | 735  | 358 | 330 | 344  |
| 21    | 825      | 812 | 819  | 907   | 900 | 903  | 727   | 652 | 703  | 331 | 320 | 325  |
| 22    | 852      | 815 | 833  | 901   | 856 | 877  | 722   | 688 | 705  | 376 | 331 | 353  |
| 23    | 832      | 804 | 809  | 856   | 807 | 824  | 694   | 633 | 661  | 437 | 376 | 402  |
| 24    | 848      | 798 | 824  | 816   | 794 | 802  | 652   | 628 | 638  | 491 | 437 | 466  |
| 25    | 834      | 802 | 811  | 820   | 810 | 815  | 651   | 616 | 630  | 489 | 423 | 462  |
| 26    | 849      | 811 | 831  | 819   | 782 | 805  | 641   | 612 | 620  | 423 | 341 | 376  |
| 27    | 859      | 809 | 830  | 812   | 785 | 801  | 622   | 559 | 586  | 341 | 326 | 333  |
| 28    | 869      | 824 | 840  | 808   | 778 | 795  | 594   | 558 | 573  | 333 | 324 | 329  |
| 29    | ---      | --- | ---  | 795   | 732 | 766  | 568   | 554 | 561  | 340 | 329 | 335  |
| 30    | ---      | --- | ---  | 732   | 692 | 706  | 566   | 556 | 561  | 357 | 339 | 350  |
| 31    | ---      | --- | ---  | 694   | 680 | 690  | ---   | --- | ---  | 378 | 355 | 366  |
| Month | ---      | --- | ---  | 960   | 680 | 831  | 1,020 | 554 | 685  | --- | --- | ---  |

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—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            | 410  | 378 | 395  | 493   | 479 | 487  | 912    | 762   | 796   | 807       | 797 | 802   |
| 2            | 444  | 410 | 425  | 479   | 453 | 467  | 781    | 643   | 710   | 808       | 687 | 741   |
| 3            | 492  | 444 | 466  | 453   | 435 | 444  | 643    | 572   | 599   | 802       | 652 | 726   |
| 4            | 529  | 492 | 512  | 435   | 430 | 433  | 587    | 572   | 580   | 778       | 644 | ---   |
| 5            | 537  | 528 | 533  | 452   | 435 | 443  | 609    | 580   | 587   | 815       | 658 | 748   |
| 6            | 536  | 506 | 514  | 443   | 437 | 439  | 657    | 590   | 635   | 818       | 690 | 755   |
| 7            | 506  | 488 | 492  | 538   | 441 | 448  | 651    | 591   | 618   | 731       | 628 | 673   |
| 8            | 508  | 484 | 492  | 535   | 452 | 476  | 633    | 583   | 603   | 745       | 720 | 731   |
| 9            | 508  | 489 | 494  | 558   | 441 | 486  | 765    | 586   | 677   | 1,920     | 727 | 842   |
| 10           | 490  | 480 | 485  | 556   | 452 | 481  | 1,140  | 715   | 1,000 | 1,620     | 521 | 840   |
| 11           | 488  | 477 | 482  | 453   | 433 | 442  | 903    | 714   | 780   | 1,460     | 650 | 1,060 |
| 12           | 503  | 488 | 497  | 666   | 435 | 460  | 926    | 653   | 743   | 1,140     | 895 | 989   |
| 13           | 504  | 488 | 496  | 460   | 436 | 443  | 668    | 636   | 652   | 1,030     | 839 | 941   |
| 14           | 500  | 488 | 496  | 959   | 440 | 634  | 694    | 640   | 675   | ---       | 767 | ---   |
| 15           | 516  | 490 | 507  | 2,190 | 461 | 745  | 689    | 668   | 684   | ---       | --- | ---   |
| 16           | 545  | 504 | 522  | 1,820 | 570 | 688  | 668    | 617   | 635   | ---       | --- | ---   |
| 17           | 570  | 530 | 554  | 633   | 409 | 490  | 635    | 619   | 628   | ---       | --- | ---   |
| 18           | 617  | 570 | 589  | 976   | 409 | 729  | 668    | 635   | 658   | ---       | --- | ---   |
| 19           | 633  | 603 | 620  | 935   | 839 | 901  | 680    | 666   | 674   | 643       | 467 | 545   |
| 20           | 622  | 582 | 593  | 935   | 914 | 923  | 666    | 626   | 651   | 1,180     | 522 | 800   |
| 21           | 591  | 577 | 583  | 916   | 723 | 821  | 626    | 570   | 606   | 1,190     | 706 | 976   |
| 22           | 583  | 508 | 545  | 746   | 703 | 727  | 660    | 565   | 592   | 706       | 549 | 619   |
| 23           | 508  | 479 | 493  | 742   | 700 | 714  | 586    | 559   | 572   | 1,010     | 467 | 679   |
| 24           | 482  | 472 | 478  | 883   | 742 | 804  | 714    | 565   | 597   | 1,110     | 582 | 752   |
| 25           | 480  | 472 | 476  | 925   | 775 | 870  | 2,500  | 667   | 865   | 660       | 585 | 608   |
| 26           | 484  | 471 | 478  | 775   | 670 | 696  | 1,690  | 555   | 1,020 | 591       | 558 | 568   |
| 27           | 490  | 481 | 485  | 687   | 668 | 683  | 1,650  | 1,280 | 1,520 | 559       | 515 | 533   |
| 28           | 489  | 479 | 484  | 728   | 653 | 686  | 1,340  | 901   | 1,140 | 526       | 514 | 518   |
| 29           | 482  | 474 | 476  | 1,390 | 698 | 748  | 913    | 778   | 858   | 563       | 526 | 546   |
| 30           | 487  | 474 | 482  | 1,010 | 664 | 755  | 918    | 771   | 835   | 567       | 560 | 563   |
| 31           | ---  | --- | ---  | 804   | 704 | 758  | 1,750  | 805   | 950   | ---       | --- | ---   |
| <b>Month</b> | 633  | 378 | 505  | 2,190 | 409 | 623  | 2,500  | 555   | 746   | ---       | --- | ---   |

## 09379500 SAN JUAN RIVER NEAR BLUFF, UT—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 1 of 2

[CaCO<sub>3</sub>, calcium carbonate; SiO<sub>2</sub>, silicon dioxide; ft, feet; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data]

| Date       | Discharge,<br>instantaneous,<br>ft <sup>3</sup> /s<br>(00061) | Specific<br>conduc-<br>tance,<br>water,<br>µS/cm at<br>25°C<br>(00095) | Tempera-<br>ture,<br>water,<br>°C<br>(00010) | Gage<br>height,<br>ft<br>(00065) | Dissolved<br>solids<br>dried at<br>180°C,<br>water,<br>filtered,<br>mg/L<br>(70300) | Dissolved<br>solids,<br>water,<br>filtered,<br>sum of<br>constit-<br>uents,<br>mg/L<br>(70301) | Calcium,<br>water,<br>filtered,<br>mg/L<br>(00915) | Magne-<br>sium,<br>water,<br>filtered,<br>mg/L<br>(00925) | Potassium,<br>water,<br>filtered,<br>mg/L<br>(00935) | Sodium,<br>water,<br>filtered,<br>mg/L<br>(00930) |
|------------|---|--|--|----------------------------------|---|--|--|---|--|---|
|            |   |  |  |                                  |   |  |  |   |  |   |
| 11-27-2012 | 502   | 804  | 4.5  | 3.58                             | 554   | 532  | 86.5   | 21.7  | 2.93   | 59.8  |
| 02-05-2013 | 514   | 961  | 3.5  | 3.59                             | 663   | 671  | 99.9   | 25.3  | 4.04   | 74.0  |
| 04-02-2013 | --  | 692  | 14.5   | --                               | 477   | 458  | 67.9   | 18.2  | 2.58   | 48.7  |
| 06-17-2013 | 347   | 567  | 22.0   | 3.27                             | 361   | 355  | 60.5   | 11.9  | 2.06   | 36.6  |
| 07-24-2013 | 676   | 777  | 24.5   | 3.92                             | 520   | 487  | 40.0   | 4.98  | 4.25   | 98.7  |
| 08-26-2013 | 8,550   | 1,700  | 21.2   | 9.73                             | 1,440   | 1,320  | 273  | 26.4  | 12.0   | 90.5  |
| 09-06-2013 | 755   | 753  | 25.0   | 4.00                             | 502   | 489  | 73.9   | 11.1  | 4.71   | 63.9  |
| 09-18-2013 | 3,750   | 602  | 19.6   | 6.35                             | 392   | 372  | 50.3   | 6.16  | 3.81   | 56.7  |

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Part 2 of 2

[CaCO<sub>3</sub>, calcium carbonate; SiO<sub>2</sub>, silicon dioxide; ft, feet; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data]

| Date       | Alkalinity,<br>water,<br>filtered,<br>fixed<br>endpoint<br>(pH 4.5)<br>titration,<br>laboratory,<br>mg/L as<br>CaCO <sub>3</sub><br>(29801) | Chloride,<br>water,<br>filtered,<br>mg/L<br>(00940) | Fluoride,<br>water,<br>filtered,<br>mg/L<br>(00950) | Silica,<br>water,<br>filtered,<br>mg/L as<br>SiO <sub>2</sub><br>(00955) | Sulfate,<br>water,<br>filtered,<br>mg/L<br>(00945) |
|------------|---|---|---|--|--|
|            |   |   |   |  |  |
| 11-27-2012 | 143   | 19.8  | .35   | 4.53   | 251  |
| 02-05-2013 | 166   | 25.8  | .35   | 9.74   | 332  |
| 04-02-2013 | 122   | 18.4  | .32   | 3.76   | 225  |
| 06-17-2013 | 102   | 15.6  | .36   | 2.12   | 165  |
| 07-24-2013 | 135   | 10.7  | .82   | 10.5   | 236  |
| 08-26-2013 | 70.1  | 10.8  | .45   | 9.14   | 861  |
| 09-06-2013 | 124   | 15.7  | .52   | 9.19   | 236  |
| 09-18-2013 | 108   | 8.32  | .46   | 7.92   | 174  |