Water-Data Report 2008

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR

Willamette Basin
North Santiam Subbasin

LOCATION.--Lat 44°45′10″, long 122°17′50″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.34, T.9 S., R.4 E., Marion County, OR, Hydrologic Unit 17090005, on left bank, 0.1 mi downstream from Little Sardine Creek, 0.8 mi downstream from Big Cliff Dam, 2.1 mi east of Niagara and at mile 57.3.

DRAINAGE AREA.--453 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1908 to January 1920, October 1921 to March 1922, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1318. Published as "North Fork of Santiam River near Niagara" prior to October 1913 and as "above Mayflower Creek, near Detroit" October 1938 to September 1952.

REVISED RECORDS.--WSP 1288: 1914-18, 1920. WSP 1718: 1953-54.

GAGE.--Water-stage recorder. Datum of gage is 1,093.78 ft above NGVD of 1929 (Federal Highway Administration bench mark). See WSP 1738 for history of changes prior to Oct. 1, 1952.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated since 1953 by Detroit Lake (active capacity, 340,100 acre-ft) and Big Cliff Reservoir (active capacity for reregulating purposes, 2,930 acre-ft). No diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--80 years (water years 1910-19, 1939-2008), 2,318 ft^3/s, 69.49 in/yr, 1,679,000 acre-ft/yr, adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63,200 ft^3/s Nov. 22, 1909, gage height, 16.4 ft, from floodmark, site and datum then in use, from rating curve extended above 35,000 ft^3/s; minimum discharge, 19 ft^3/s Aug. 21, 1963; minimum daily, 395 ft^3/s Mar. 25, 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,700 ft^3/s May 21, gage height, 7.79 ft; minimum discharge, 892 ft^3/s Aug. 8.

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,610	2,630	3,000	2,600	1,250	1,050	1,520	2,320	3,510	3,670	1,110	1,430
2	1,830	2,600	2,700	2,280	1,280	1,040	1,540	2,280	3,570	3,110	1,020	1,510
3	1,840	2,590	2,780	2,270	1,290	1,040	1,520	2,310	5,410	2,740	1,020	1,520
4	1,850	2,620	3,570	2,110	1,290	1,030	1,510	2,870	6,510	2,590	1,020	1,540
5	2,290	2,610	4,700	2,440	1,290	1,030	1,530	3,090	6,560	2,430	1,020	1,550
6	2,320	2,620	5,690	2,550	1,290	1,030	1,520	3,910	5,380	2,430	1,040	1,520
7	2,320	2,600	6,620	2,530	1,280	1,030	1,540	4,980	4,910	2,120	1,040	1,540
8	2,330	2,600	7,630	2,300	1,270	1,040	1,530	5,950	4,880	2,000	1,040	2,110
9	2,330	2,610	7,640	2,580	1,270	1,020	1,510	5,840	4,790	2,080	1,040	2,410
10	2,330	2,610	7,480	2,590	1,270	1,030	1,530	5,040	4,610	1,950	1,030	2,400
11	2,340	2,810	6,340	2,720	1,260	1,040	1,560	4,980	4,530	1,740	1,030	2,410
12	2,350	3,150	5,380	3,550	1,190	1,030	1,620	5,020	4,410	1,570	1,020	e2,440
13	2,330	3,280	5,480	3,560	1,070	1,040	1,650	5,030	4,440	1,480	1,030	e2,520
14	2,330	4,010	5,440	3,560	1,060	1,060	1,630	5,130	4,350	1,490	1,050	2,790
15	2,330	4,020	4,550	3,570	1,060	1,060	1,530	6,220	5,520	1,340	1,060	2,580
16	2,330	4,130	3,600	3,550	1,070	1,520	1,530	9,670	4,400	1,460	1,070	2,420
17	2,330	4,940	3,240	3,560	1,070	1,550	1,520	10,200	3,770	1,330	1,080	2,430
18	2,630	5,260	4,120	3,560	1,070	1,540	1,540	10,500	3,760	1,170	1,080	2,430
19	2,940	6,060	4,480	3,540	1,070	1,710	1,530	10,500	3,840	1,180	1,080	2,300
20	3,360	7,000	4,190	3,070	1,100	2,500	1,520	10,600	3,970	1,190	1,090	2,310
21	3,450	7,040	3,670	3,060	1,090	2,450	1,520	10,200	4,340	1,170	1,110	2,350
22	3,440	7,030	2,950	2,960	1,030	1,990	1,520	8,100	4,410	1,170	1,080	2,360
23	3,290	6,430	2,950	2,290	1,020	1,610	1,530	6,530	4,380	1,180	1,080	2,260
24	3,510	5,380	3,690	1,650	1,020	1,510	1,550	5,680	3,610	1,160	1,090	2,280
25	3,640	5,340	5,230	1,280	1,030	1,540	1,510	5,530	2,770	1,150	1,100	2,270
26	2,830	5,340	5,000	1,270	1,040	1,510	1,570	5,420	2,620	1,180	1,090	2,260
27	2,930	4,760	3,850	1,290	1,070	1,510	1,600	5,460	3,810	1,180	1,090	2,250
28	3,580	4,330	3,250	1,280	1,030	1,520	1,670	5,220	3,970	1,190	1,100	2,260
29	3,620	4,330	3,160	1,200	1,050	1,530	2,520	4,560	3,730	1,220	1,090	2,260
30	3,380	3,650	3,140	1,270	---	1,570	2,360	4,290	3,880	1,210	1,070	2,370
31	2,800	---	3,040	1,270	---	1,520	---	3,980	---	1,210	1,070	---
Total	82,790	124,380	138,560	77,310	33,180	42,650	48,230	181,410	130,640	52,090	32,940	65,080
Mean	2,671	4,146	4,470	2,494	1,144	1,376	1,608	5,852	4,355	1,680	1,063	2,169
Max	3,640	7,040	7,640	3,570	1,290	2,500	2,520	10,600	6,560	3,670	1,110	2,790
Min	1,610	2,590	2,700	1,200	1,020	1,020	1,510	2,280	2,620	1,150	1,020	1,430
Ac-ft	164,200	246,700	274,800	153,300	65,810	84,600	95,660	359,800	259,100	103,300	65,340	129,100
Mean adjusted for change in contents, in Detroit Lake												
	1,563	2,324	4,406	2,670	1,940	3,188	2,776	6,322	4,487	1,659	957	837
CFSM adjusted for change in contents, in Detroit Lake												
	3.45	5.13	9.73	5.89	4.28	7.04	6.13	14.0	9.91	3.66	2.11	1.85
In. adjusted for change in contents, in Detroit Lake												
	3.98	5.73	11.22	6.80	4.62	8.11	6.84	16.09	11.05	4.22	2.44	2.06
Ac-ft adjusted for change in contents, in Detroit Lake												
	96,100	138,300	270,900	164,200	111,600	196,000	165,200	388,700	267,000	102,000	58,840	49,800

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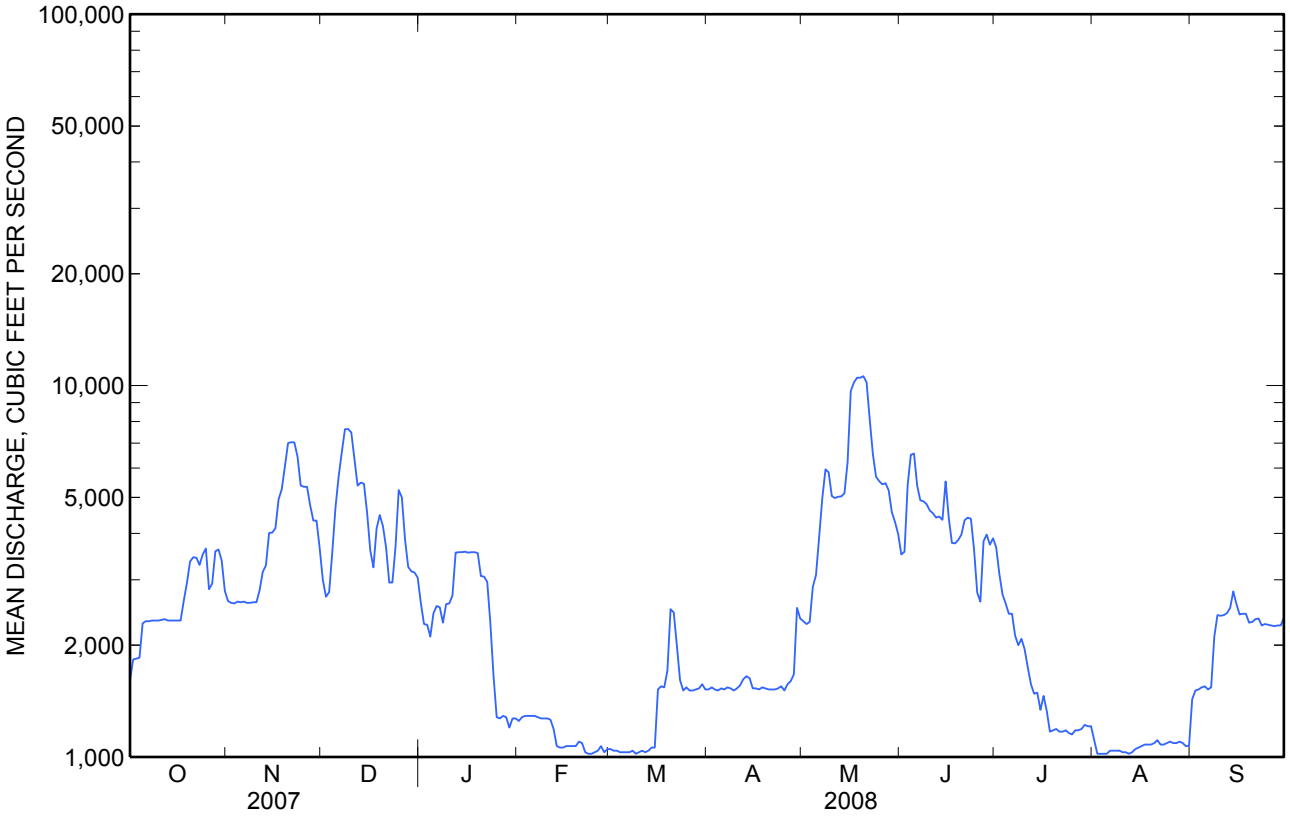
	Calendar Year 2007	Water Year 2008
Total	799,860	1,009,260
Mean	2,191	2,758
Max	8,030	10,600
Min	1,000	1,020
Ac-ft	1,587,000	2,002,000
Mean adjusted for change in contents, in Detroit Lake	2,142	2,767
CFSM adjusted for change in contents, in Detroit Lake	4.73	6.11
In. adjusted for change in contents, in Detroit Lake	64.21	83.17
Ac-ft adjusted for change in contents, in Detroit Lake	1,551,000	2,009,000



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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 2000 to current year.
pH: August 2000 to current year.
WATER TEMPERATURE: January 1953 to September 1997, October 1999 to current year.
TURBIDITY: April 2000 to current year.

INSTRUMENTATION.--Water-quality monitor. Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

REMARKS.--
SPECIFIC CONDUCTANCE: Records excellent except those for Dec. 8 to Feb. 27, Aug. 21 to Sept. 23, which are good.
pH: Records excellent except those for Nov. 8 to Jan. 9, which are good and Oct. 1-12, which are fair.
WATER TEMPERATURE: Records excellent.
TURBIDITY: Records excellent. Data collected using a YSI 6026 turbidity sensor. Manufacturer's stated accuracy is the greater of +/- 5 percent or 2 Formazin Nephelometric Units. FNU values below 10 are reported to nearest 0.1 FNU. Negative recorded values are reported as 0.0 FNU.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 59 microsiemens Oct. 4, 2005; minimum, 17 microsiemens June 9, 2006.
pH: Maximum, 8.0 units Aug. 26, 31, Sept. 1, 20, 2007; minimum, 6.8 units Sept. 17, 2001, on many days during several months water years 2003-05, Oct. 1-4, 6-10, 2005.
WATER TEMPERATURE: Maximum, 19.5°C Aug. 21, 1997; minimum, 1.0°C Jan. 30 to Feb. 4, 1979.
TURBIDITY: Maximum, 80 FNU Nov. 11, 2006; minimum, <1 FNU on many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 43 microsiemens Nov. 6, 7, 9, 10, 12, Jan. 30 to Feb. 5; minimum, 26 microsiemens Oct. 1, July 31, Aug. 2, 7.
pH: Maximum, 7.9 units Oct. 1; minimum, 7.0 units Sept. 26-30.
WATER TEMPERATURE: Maximum, 16.3°C Aug. 11; minimum, 2.6°C Jan. 28.
TURBIDITY: Maximum, 34 FNU Dec. 5; minimum, 0.0 FNU Aug. 21, 22, 24, 26, Sept. 30.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	Instan-taneous dis-charge, ft3/s (00061)	Suspnd. sedi-ment, sieve diametr percent <62.5um (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
Oct					
10...	1602	2,290	61	2	12
Dec					
05...	1412	4,500	93	19	231

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	36	26	29	42	41	41	40	40	40	37	34	36
2	37	34	36	42	41	41	41	38	40	37	33	36
3	36	31	34	42	41	42	38	30	34	38	30	34
4	37	28	29	42	41	42	35	30	32	38	29	35
5	37	36	36	42	42	42	36	34	35	37	32	35
6	37	35	36	43	42	42	36	36	36	36	33	35
7	35	31	33	43	42	43	36	32	34	39	35	38
8	37	28	33	42	37	41	34	31	32	39	36	38
9	37	35	36	43	37	40	35	34	34	39	34	37
10	35	33	34	43	36	40	34	34	34	36	33	35
11	33	28	30	42	38	40	36	34	35	35	32	33
12	38	28	36	43	41	42	36	34	35	35	35	35
13	37	33	34	41	40	40	37	36	36	36	34	35
14	37	34	35	41	40	40	36	34	36	36	35	36
15	37	34	35	41	41	41	37	35	36	37	35	36
16	37	35	36	41	39	40	37	33	36	38	37	38
17	37	36	37	41	39	40	36	31	34	39	37	38
18	38	36	37	40	39	40	36	35	35	39	38	38
19	37	35	36	41	40	40	---	---	---	39	36	37
20	38	36	37	40	38	38	37	36	37	38	35	37
21	38	37	38	39	38	38	38	35	37	39	37	38
22	39	38	38	40	39	39	38	34	36	39	37	38
23	39	38	39	40	39	40	37	32	35	40	36	38
24	40	39	39	40	39	39	38	31	34	40	37	39
25	40	40	40	40	39	40	39	37	38	40	37	39
26	40	40	40	40	40	40	38	37	38	41	36	39
27	41	40	40	40	40	40	38	35	37	41	37	39
28	41	40	41	40	40	40	38	33	36	42	39	41
29	41	41	41	40	40	40	37	33	36	42	38	40
30	42	41	42	41	40	40	37	35	36	43	39	41
31	42	41	41	---	---	---	37	34	36	43	40	42
Month	42	26	36	43	36	40	---	---	---	43	29	37

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	43	36	42	38	35	36	39	38	39	38	37	37
2	43	36	41	35	34	35	39	38	38	37	36	37
3	43	37	42	39	35	36	38	37	38	37	36	37
4	43	41	41	39	38	39	38	37	37	38	37	37
5	43	36	39	39	37	38	37	37	37	37	36	37
6	39	35	38	39	38	38	38	37	38	37	36	36
7	40	35	37	39	38	39	38	37	38	37	36	37
8	40	36	38	38	37	38	38	37	38	37	37	37
9	40	36	38	38	37	38	38	37	38	37	37	37
10	39	36	38	38	37	38	38	37	38	37	37	37
11	39	35	37	38	35	36	38	37	38	37	37	37
12	39	35	37	36	35	36	38	37	37	37	36	37
13	39	35	38	37	35	36	37	35	36	38	36	37
14	39	35	37	37	35	36	36	34	36	38	36	36
15	39	35	37	37	36	36	37	35	36	37	36	37
16	39	35	37	38	36	37	38	37	37	37	36	37
17	39	38	39	38	38	38	38	37	38	37	36	36
18	39	35	38	38	36	38	38	37	37	36	36	36
19	40	37	38	36	35	36	37	37	37	36	36	36
20	40	35	38	37	36	37	38	37	37	37	36	36
21	40	36	38	38	37	37	38	37	37	37	35	36
22	40	38	39	38	38	38	37	37	37	35	35	35
23	41	36	40	38	37	37	37	36	37	35	33	34
24	41	37	39	37	36	36	37	36	37	34	33	34
25	41	40	41	37	36	36	37	36	37	35	34	35
26	40	38	39	37	36	37	37	36	37	36	32	34
27	38	36	38	37	37	37	37	36	37	34	32	33
28	37	36	37	38	37	38	36	35	36	34	32	33
29	37	36	36	38	38	38	36	35	36	33	32	33
30	---	---	---	38	38	38	37	36	36	34	33	33
31	---	---	---	39	38	38	---	---	---	34	33	34
Month	43	35	39	39	34	37	39	34	37	38	32	36

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	35	34	34	32	30	32	32	29	31	35	34	34
2	35	33	34	32	30	32	31	26	29	35	35	35
3	34	33	33	32	31	32	33	30	31	36	34	35
4	33	32	32	32	31	31	32	27	29	36	36	36
5	32	31	32	32	31	31	33	31	31	36	35	36
6	32	32	32	32	31	31	32	28	30	36	36	36
7	32	31	32	32	31	31	33	26	31	36	36	36
8	32	32	32	32	31	32	33	32	32	36	36	36
9	32	32	32	32	31	31	33	31	31	36	35	36
10	32	32	32	32	31	31	32	28	30	36	36	36
11	32	30	31	32	31	31	35	28	31	36	35	36
12	32	32	32	33	31	32	35	32	33	36	31	34
13	32	32	32	32	31	32	33	31	32	35	32	34
14	32	31	32	32	31	32	33	33	33	37	35	36
15	32	31	32	32	31	32	34	32	33	39	36	37
16	32	31	32	33	32	32	32	32	32	38	37	37
17	32	32	32	33	32	32	32	32	32	38	37	37
18	32	31	32	33	32	32	32	32	32	38	37	37
19	32	31	32	32	32	32	32	32	32	38	37	38
20	32	32	32	32	32	32	34	32	32	38	37	37
21	32	32	32	32	31	32	32	32	32	38	36	37
22	32	31	32	32	32	32	32	32	32	37	36	36
23	32	31	32	32	32	32	33	32	32	37	35	35
24	32	32	32	33	32	32	34	33	33	35	32	34
25	33	32	32	35	32	33	34	33	33	33	29	31
26	32	32	32	33	32	32	33	33	33	33	32	32
27	32	32	32	33	32	32	33	33	33	32	32	32
28	32	32	32	33	32	32	33	33	33	32	32	32
29	32	31	32	33	31	32	34	33	34	32	32	32
30	32	32	32	32	27	30	34	34	34	32	32	32
31	---	---	---	32	26	31	34	34	34	---	---	---
Month	35	30	32	35	26	32	35	26	32	39	29	35

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		October			November			December			January	
1	7.9	7.6	7.8	7.6	7.6	7.6	7.5	7.5	7.5	7.4	7.4	7.4
2	7.7	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.4	7.4	7.4
3	7.7	7.6	7.6	7.6	7.6	7.6	7.5	7.4	7.5	7.4	7.4	7.4
4	7.7	7.6	7.7	7.6	7.6	7.6	7.4	7.4	7.4	7.5	7.4	7.4
5	7.7	7.7	7.7	7.6	7.6	7.6	7.5	7.4	7.4	7.5	7.4	7.4
6	7.7	7.6	7.7	7.6	7.6	7.6	7.5	7.5	7.5	7.4	7.4	7.4
7	7.6	7.5	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.4	7.4
8	7.6	7.5	7.6	7.7	7.6	7.6	7.6	7.6	7.6	7.5	7.4	7.5
9	7.6	7.6	7.6	7.7	7.6	7.6	7.6	7.6	7.6	7.5	7.4	7.4
10	7.6	7.4	7.6	7.7	7.6	7.6	7.6	7.5	7.6	7.5	7.4	7.4
11	7.5	7.5	7.5	7.7	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4
12	7.6	7.5	7.5	7.7	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4
13	7.6	7.5	7.5	7.7	7.6	7.7	7.6	7.6	7.6	7.4	7.4	7.4
14	7.6	7.5	7.5	7.7	7.7	7.7	7.6	7.6	7.6	7.4	7.4	7.4
15	7.6	7.5	7.5	7.7	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4
16	7.6	7.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4
17	7.6	7.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4
18	7.6	7.5	7.5	7.7	7.6	7.6	7.6	7.6	7.6	7.4	7.4	7.4
19	7.7	7.4	7.5	7.6	7.5	7.6	---	---	---	7.4	7.4	7.4
20	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.5	7.4	7.4	7.4
21	7.6	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.4
22	7.6	7.6	7.6	7.6	7.5	7.6	7.5	7.4	7.4	7.5	7.4	7.4
23	7.6	7.4	7.6	7.6	7.6	7.6	7.4	7.4	7.4	7.5	7.4	7.5
24	7.5	7.4	7.5	7.6	7.5	7.6	7.4	7.3	7.4	7.5	7.4	7.5
25	7.5	7.5	7.5	7.6	7.6	7.6	7.4	7.4	7.4	7.5	7.5	7.5
26	7.7	7.5	7.6	7.6	7.6	7.6	7.4	7.4	7.4	7.5	7.5	7.5
27	7.6	7.5	7.5	7.6	7.6	7.6	7.4	7.4	7.4	7.5	7.5	7.5
28	7.6	7.5	7.6	7.6	7.5	7.6	7.4	7.4	7.4	7.5	7.5	7.5
29	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.4	7.4	7.5	7.5	7.5
30	7.6	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.4	7.5	7.5	7.5
31	7.6	7.6	7.6	---	---	---	7.4	7.4	7.4	7.5	7.4	7.5
Max	7.9	7.7	7.8	7.7	7.7	7.7	---	---	---	7.5	7.5	7.5
Min	7.5	7.4	7.5	7.5	7.5	7.5	---	---	---	7.4	7.4	7.4

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		February			March			April			May	
1	7.5	7.4	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.4	7.3	7.3
2	7.5	7.4	7.5	7.5	7.4	7.4	7.5	7.4	7.4	7.5	7.4	7.4
3	7.5	7.4	7.5	7.5	7.4	7.4	7.5	7.4	7.5	7.5	7.3	7.4
4	7.5	7.5	7.5	7.6	7.4	7.5	7.5	7.4	7.5	7.4	7.3	7.4
5	7.5	7.4	7.5	7.6	7.4	7.5	7.5	7.4	7.5	7.5	7.4	7.4
6	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.5
7	7.5	7.5	7.5	7.6	7.5	7.5	7.4	7.4	7.4	7.5	7.4	7.5
8	7.5	7.4	7.5	7.6	7.5	7.5	7.4	7.4	7.4	7.5	7.4	7.5
9	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.5
10	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.5	7.5
11	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.5
12	7.5	7.5	7.5	7.6	7.4	7.5	7.5	7.4	7.4	7.5	7.4	7.5
13	7.5	7.5	7.5	7.6	7.5	7.5	7.6	7.4	7.5	7.5	7.5	7.5
14	7.5	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.5
15	7.5	7.5	7.5	7.6	7.4	7.5	7.5	7.4	7.4	7.5	7.4	7.5
16	7.5	7.5	7.5	7.5	7.4	7.5	7.5	7.4	7.4	7.6	7.4	7.5
17	7.5	7.5	7.5	7.5	7.4	7.5	7.5	7.4	7.4	7.5	7.4	7.5
18	7.5	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.4	7.5	7.4	7.5
19	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.4	7.5	7.5	7.5
20	7.6	7.5	7.5	7.4	7.4	7.4	7.5	7.4	7.4	7.5	7.4	7.5
21	7.6	7.5	7.5	7.4	7.4	7.4	7.5	7.4	7.4	7.5	7.5	7.5
22	7.6	7.5	7.5	7.4	7.4	7.4	7.6	7.4	7.5	7.5	7.4	7.5
23	7.6	7.5	7.5	7.4	7.4	7.4	7.6	7.5	7.5	7.5	7.4	7.5
24	7.6	7.5	7.5	7.5	7.3	7.4	7.5	7.4	7.4	7.5	7.4	7.5
25	7.6	7.5	7.5	7.5	7.4	7.4	7.5	7.4	7.4	7.5	7.4	7.4
26	7.6	7.5	7.5	7.4	7.4	7.4	7.5	7.4	7.4	7.4	7.4	7.4
27	7.6	7.4	7.5	7.4	7.3	7.4	7.5	7.4	7.4	7.5	7.4	7.4
28	7.5	7.4	7.4	7.4	7.4	7.4	7.5	7.3	7.4	7.4	7.3	7.3
29	7.5	7.4	7.4	7.5	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3
30	---	---	---	7.5	7.4	7.4	7.3	7.3	7.3	7.3	7.3	7.3
31	---	---	---	7.5	7.4	7.4	---	---	---	7.3	7.3	7.3
Max	7.6	7.5	7.5	7.6	7.5	7.5	7.6	7.5	7.5	7.6	7.5	7.5
Min	7.5	7.4	7.4	7.4	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		June			July			August			September	
1	7.3	7.2	7.3	7.4	7.2	7.3	7.6	7.4	7.4	7.5	7.3	7.4
2	7.3	7.2	7.3	7.3	7.2	7.2	7.6	7.4	7.4	7.4	7.3	7.3
3	7.3	7.3	7.3	7.2	7.2	7.2	7.6	7.4	7.4	7.4	7.3	7.3
4	7.4	7.3	7.3	7.2	7.2	7.2	7.6	7.4	7.4	7.4	7.3	7.3
5	7.4	7.3	7.4	7.2	7.2	7.2	7.6	7.4	7.4	7.5	7.3	7.3
6	7.4	7.3	7.3	7.2	7.2	7.2	7.6	7.3	7.4	7.4	7.2	7.3
7	7.4	7.3	7.3	7.3	7.2	7.2	7.6	7.3	7.5	7.4	7.2	7.3
8	7.4	7.3	7.3	7.3	7.2	7.2	7.5	7.3	7.4	7.4	7.2	7.3
9	7.4	7.3	7.3	7.4	7.2	7.3	7.5	7.3	7.4	7.4	7.2	7.3
10	7.4	7.3	7.3	7.4	7.2	7.3	7.6	7.3	7.4	7.3	7.2	7.3
11	7.3	7.3	7.3	7.5	7.4	7.4	7.5	7.3	7.4	7.3	7.2	7.3
12	7.3	7.3	7.3	7.4	7.3	7.4	7.4	7.3	7.3	7.4	7.2	7.3
13	7.4	7.3	7.3	7.5	7.3	7.4	7.5	7.3	7.3	7.4	7.3	7.3
14	7.4	7.2	7.2	7.5	7.3	7.4	7.5	7.3	7.3	7.3	7.2	7.3
15	7.3	7.2	7.2	7.5	7.3	7.3	7.4	7.2	7.3	7.4	7.2	7.3
16	7.3	7.2	7.2	7.4	7.3	7.3	7.3	7.2	7.2	7.4	7.2	7.3
17	7.2	7.2	7.2	7.4	7.3	7.3	7.2	7.1	7.2	7.4	7.3	7.4
18	7.2	7.2	7.2	7.4	7.3	7.3	7.2	7.1	7.2	7.4	7.3	7.4
19	7.3	7.2	7.2	7.5	7.3	7.3	7.2	7.1	7.2	7.4	7.3	7.3
20	7.3	7.2	7.2	7.5	7.3	7.4	7.2	7.1	7.2	7.4	7.2	7.3
21	7.3	7.2	7.2	7.5	7.2	7.4	7.3	7.2	7.2	7.3	7.3	7.3
22	7.3	7.2	7.2	7.3	7.2	7.2	7.3	7.2	7.2	7.4	7.3	7.3
23	7.3	7.2	7.2	7.2	7.2	7.2	7.3	7.2	7.2	7.4	7.3	7.3
24	7.3	7.2	7.2	7.2	7.1	7.2	7.3	7.2	7.2	7.4	7.3	7.3
25	7.3	7.2	7.2	7.3	7.1	7.2	7.3	7.1	7.2	7.3	7.3	7.3
26	7.3	7.2	7.3	7.3	7.2	7.2	7.3	7.2	7.2	7.3	7.0	7.1
27	7.4	7.2	7.3	7.3	7.2	7.2	7.3	7.1	7.2	7.0	7.0	7.0
28	7.4	7.3	7.3	7.4	7.2	7.3	7.3	7.1	7.2	7.0	7.0	7.0
29	7.3	7.3	7.3	7.5	7.3	7.3	7.3	7.2	7.2	7.0	7.0	7.0
30	7.4	7.3	7.3	7.6	7.3	7.4	7.4	7.2	7.3	7.0	7.0	7.0
31	---	---	---	7.6	7.4	7.4	7.4	7.2	7.3	---	---	---
Max	7.4	7.3	7.4	7.6	7.4	7.4	7.6	7.4	7.5	7.5	7.3	7.4
Min	7.2	7.2	7.2	7.2	7.1	7.2	7.2	7.1	7.2	7.0	7.0	7.0

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	8.6	8.4	8.5	11.1	10.9	11.0	8.0	7.6	7.8	4.7	4.7	4.7
2	8.7	8.6	8.6	11.1	10.9	11.0	7.7	7.6	7.6	4.7	4.7	4.7
3	8.9	8.7	8.8	11.1	10.8	10.9	7.9	7.6	7.7	4.8	4.7	4.8
4	8.9	8.6	8.7	11.0	10.8	10.9	7.9	7.5	7.7	4.8	4.8	4.8
5	8.9	8.7	8.8	11.0	10.9	10.9	7.5	7.3	7.4	4.8	4.6	4.8
6	9.1	8.6	8.9	11.0	10.8	10.9	7.3	7.1	7.2	4.6	4.4	4.5
7	9.5	9.1	9.3	10.8	10.7	10.7	7.1	7.0	7.1	4.4	4.3	4.3
8	9.6	9.5	9.5	10.8	10.7	10.8	7.0	6.9	7.0	4.3	4.1	4.2
9	9.7	9.5	9.6	10.9	10.8	10.8	7.1	6.9	7.0	4.3	4.2	4.2
10	9.8	9.7	9.7	10.9	10.8	10.8	7.1	6.8	7.0	4.3	4.3	4.3
11	9.8	9.6	9.7	10.8	10.7	10.8	6.9	6.7	6.8	4.4	4.3	4.4
12	10.1	9.6	9.9	10.8	10.7	10.7	6.9	6.4	6.6	4.5	4.3	4.4
13	10.1	9.9	10.0	10.7	10.4	10.5	6.4	6.2	6.3	4.4	4.3	4.3
14	10.3	9.9	10.1	10.9	10.5	10.7	6.4	6.3	6.3	4.3	4.2	4.3
15	10.5	10.2	10.3	10.8	10.3	10.5	6.4	6.1	6.3	4.2	4.2	4.2
16	10.5	10.2	10.3	10.3	10.2	10.3	6.2	6.0	6.0	4.2	4.0	4.0
17	10.5	10.3	10.4	10.3	10.0	10.1	6.3	6.1	6.2	4.0	3.9	4.0
18	10.7	10.5	10.6	10.0	9.8	9.9	---	6.0	---	4.0	4.0	4.0
19	10.9	10.4	10.7	9.8	9.5	9.7	---	---	---	4.0	4.0	4.0
20	10.8	10.5	10.6	9.5	9.3	9.4	5.9	5.8	5.8	4.0	3.9	3.9
21	10.9	10.5	10.7	9.4	9.1	9.3	5.8	5.7	5.8	3.9	3.5	3.7
22	11.0	10.7	10.9	9.3	9.1	9.2	5.8	5.7	5.7	3.5	3.4	3.4
23	11.2	10.8	11.0	9.1	9.0	9.1	5.8	5.7	5.8	3.4	3.3	3.4
24	11.2	10.9	11.1	9.0	8.6	8.8	5.8	5.5	5.7	3.3	3.1	3.2
25	11.2	10.9	11.1	8.7	8.4	8.5	5.5	5.4	5.5	3.2	3.0	3.0
26	11.3	10.7	11.0	8.7	8.4	8.6	5.4	5.3	5.4	3.0	2.9	3.0
27	11.5	11.1	11.3	8.6	8.1	8.3	5.3	5.2	5.3	2.9	2.7	2.8
28	11.3	11.0	11.2	8.3	8.1	8.2	5.2	5.2	5.2	2.8	2.6	2.7
29	11.3	11.0	11.1	8.3	8.0	8.2	5.2	5.2	5.2	3.0	2.8	2.9
30	11.2	11.0	11.1	8.0	7.9	8.0	5.2	4.8	5.0	3.1	3.0	3.1
31	11.2	10.9	11.0	---	---	---	4.8	4.7	4.8	3.3	3.0	3.2
Month	11.5	8.4	10.1	11.1	7.9	9.9	---	---	---	4.8	2.6	3.9

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	3.4	3.2	3.3	4.2	4.0	4.1	4.7	4.3	4.4	5.4	4.9	5.1
2	3.3	3.1	3.2	4.3	4.1	4.2	4.8	4.4	4.6	5.8	5.4	5.6
3	3.2	3.1	3.2	4.2	4.0	4.1	5.1	4.6	4.8	5.9	5.2	5.6
4	3.1	3.1	3.1	4.2	4.0	4.1	5.0	4.8	4.9	5.7	5.2	5.3
5	3.3	3.1	3.2	4.1	3.9	4.0	4.8	4.7	4.7	6.5	5.7	6.1
6	3.3	3.1	3.2	4.1	3.9	4.0	4.8	4.6	4.7	6.7	6.1	6.4
7	3.3	3.0	3.2	4.0	3.9	4.0	4.7	4.5	4.6	6.7	5.6	5.8
8	3.5	3.3	3.4	4.2	4.0	4.1	4.7	4.5	4.6	6.0	5.4	5.7
9	3.6	3.5	3.6	4.4	4.1	4.3	4.8	4.6	4.7	6.4	5.8	6.0
10	3.6	3.4	3.5	4.6	4.3	4.4	4.9	4.7	4.8	6.7	6.2	6.4
11	3.5	3.3	3.4	4.7	4.4	4.6	5.0	4.6	4.8	6.7	5.9	6.3
12	3.4	3.3	3.3	4.8	4.5	4.6	5.5	4.9	5.2	6.8	5.7	6.1
13	3.4	3.3	3.3	4.7	4.5	4.6	5.9	5.5	5.7	6.9	6.6	6.7
14	3.4	3.2	3.3	4.6	4.4	4.5	5.8	5.2	5.6	7.6	6.9	7.2
15	3.5	3.2	3.4	4.5	4.2	4.4	5.2	4.7	4.9	9.1	7.6	8.2
16	3.5	3.4	3.4	4.4	4.3	4.4	4.9	4.6	4.7	9.3	8.0	8.7
17	3.5	3.3	3.4	4.5	4.3	4.4	5.2	4.8	4.9	8.7	7.2	8.0
18	3.4	3.3	3.3	4.5	4.4	4.4	5.4	5.1	5.3	8.4	7.0	7.7
19	3.5	3.2	3.4	4.6	4.5	4.5	5.3	4.7	5.0	8.7	7.0	7.8
20	3.5	3.4	3.5	4.5	4.2	4.3	4.8	4.5	4.6	7.3	6.4	6.9
21	3.7	3.5	3.6	4.3	4.2	4.2	4.8	4.5	4.6	6.5	6.3	6.4
22	3.6	3.5	3.6	4.3	4.1	4.2	5.3	4.7	5.1	6.7	6.4	6.6
23	3.7	3.6	3.6	4.6	4.3	4.4	5.7	5.2	5.4	7.1	6.5	6.8
24	3.8	3.6	3.8	4.7	4.5	4.6	5.5	5.0	5.2	7.9	6.7	7.2
25	3.9	3.8	3.8	4.7	4.5	4.6	5.3	5.0	5.1	7.7	6.5	6.9
26	4.0	3.7	3.9	4.6	4.3	4.5	5.6	5.1	5.3	7.3	6.2	6.4
27	4.1	3.9	4.0	4.4	4.2	4.3	5.8	5.3	5.5	7.5	6.8	7.2
28	4.0	3.8	3.9	4.4	4.1	4.2	5.9	5.5	5.7	7.0	6.4	6.6
29	4.1	3.9	4.0	4.3	4.1	4.2	5.5	4.9	5.3	7.5	7.0	7.1
30	---	---	---	4.4	4.2	4.3	4.9	4.8	4.9	7.3	6.5	6.9
31	---	---	---	4.5	4.3	4.4	---	---	---	7.2	6.8	7.0
Month	4.1	3.0	3.5	4.8	3.9	4.3	5.9	4.3	5.0	9.3	4.9	6.7

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	7.0	6.3	6.6	10.7	9.2	9.9	13.4	11.1	12.1	13.8	11.6	12.4
2	7.0	6.3	6.5	10.6	8.9	9.6	12.9	11.2	11.9	13.1	12.2	12.6
3	7.7	6.8	7.3	10.1	8.7	9.2	12.9	11.1	11.8	12.8	11.8	12.2
4	7.6	7.0	7.3	9.5	8.7	9.0	13.2	11.2	12.0	12.9	11.5	12.2
5	8.7	7.4	7.9	9.1	8.8	8.9	13.5	11.5	12.2	12.8	11.6	12.2
6	8.1	7.0	7.4	9.1	8.7	8.9	13.5	11.0	12.2	13.1	11.9	12.3
7	7.3	7.0	7.1	9.1	8.4	8.7	13.5	11.0	12.1	13.2	11.8	12.3
8	8.0	7.0	7.4	8.8	7.9	8.4	13.2	11.4	12.0	14.0	11.9	13.0
9	7.9	7.3	7.5	10.4	8.4	9.2	13.9	11.3	12.7	13.8	11.8	12.8
10	7.5	6.6	6.9	12.8	9.6	11.0	15.5	13.9	14.7	13.2	11.7	12.4
11	7.0	6.6	6.9	12.8	11.3	11.9	16.3	15.5	16.0	12.7	11.7	12.2
12	7.8	6.9	7.3	12.4	8.7	10.6	15.7	11.4	13.1	13.9	12.1	12.7
13	8.2	7.3	7.7	11.8	9.3	10.6	13.3	11.3	12.1	14.3	12.5	13.3
14	8.2	7.6	7.9	12.2	9.4	10.9	13.7	11.5	12.5	12.8	12.1	12.4
15	8.6	7.2	7.8	12.2	9.6	10.9	12.5	10.6	11.8	13.6	12.1	12.8
16	8.5	7.4	7.9	11.6	9.4	10.5	10.6	9.4	10.1	13.3	10.5	12.1
17	8.5	7.4	7.7	10.7	9.1	9.8	9.4	8.8	9.2	12.8	11.1	11.7
18	8.2	6.8	7.4	11.1	9.7	10.4	9.0	8.6	8.8	12.4	10.2	11.0
19	9.9	7.7	8.3	11.9	10.1	11.1	8.8	8.3	8.6	11.0	9.6	10.0
20	9.5	8.3	8.8	12.1	10.2	11.3	8.4	8.3	8.4	11.4	9.6	10.3
21	9.4	8.5	8.9	12.5	10.5	11.7	8.4	8.1	8.3	10.6	9.3	9.9
22	9.3	8.1	8.6	10.5	9.0	9.4	8.9	7.9	8.3	11.8	10.0	10.9
23	9.2	8.0	8.5	9.0	8.3	8.6	8.8	7.9	8.4	11.8	10.6	11.1
24	9.1	8.1	8.6	8.8	7.8	8.3	8.6	7.8	8.3	11.1	9.9	10.5
25	8.9	7.9	8.3	8.2	7.6	8.0	8.1	7.8	8.0	10.2	8.6	9.2
26	8.3	7.5	7.9	8.3	7.6	8.0	8.4	8.0	8.2	9.3	8.5	8.9
27	9.6	7.4	8.1	7.8	7.7	7.7	8.2	8.0	8.1	9.8	8.9	9.3
28	10.9	9.3	10.1	8.5	7.6	8.0	9.2	8.1	8.5	9.8	9.2	9.4
29	10.9	9.7	10.1	10.3	7.6	9.3	11.2	8.6	9.7	9.7	9.4	9.6
30	10.8	9.1	9.9	12.2	9.6	11.0	12.2	10.2	10.9	9.9	9.5	9.7
31	---	---	---	13.2	10.9	11.9	12.7	10.9	11.5	---	---	---
Month	10.9	6.3	8.0	13.2	7.6	9.8	16.3	7.8	10.7	14.3	8.5	11.4

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		October			November			December			January	
1	1.6	0.6	0.6	3.9	1.0	1.1	6.6	1.4	1.8	9.8	3.2	3.5
2	5.1	0.6	0.6	3.4	0.9	1.1	6.1	1.6	1.9	7.5	3.1	3.4
3	1.3	0.6	0.6	2.1	0.9	1.1	5.3	1.6	2.3	8.1	3.0	3.3
4	2.0	0.6	0.6	3.1	1.0	1.1	16	4.3	6.1	5.9	2.7	3.1
5	1.9	0.6	0.6	2.0	1.0	1.1	34	16	28	8.7	2.6	2.9
6	1.3	0.6	0.6	4.2	0.9	1.1	33	20	23	5.1	2.6	2.9
7	3.2	0.6	0.6	3.1	1.0	1.2	28	19	22	4.7	2.5	2.8
8	2.0	0.6	0.6	4.4	0.9	1.1	27	15	18	6.6	2.3	2.6
9	1.8	0.6	0.6	4.5	0.9	1.1	16	9.6	12	8.8	1.8	2.3
10	2.0	0.6	0.6	2.5	0.8	1.1	17	8.9	10	6.0	1.8	2.2
11	0.8	0.6	0.6	1.9	0.9	1.1	12	7.6	8.3	3.5	1.6	1.9
12	8.1	0.3	0.6	2.9	0.8	1.1	15	5.9	7.3	6.2	1.8	1.9
13	1.4	0.3	0.4	2.4	1.0	1.1	11	5.3	6.1	2.6	1.6	1.9
14	1.1	0.3	0.4	3.2	0.9	1.1	12	5.5	6.2	6.8	1.5	1.8
15	2.9	0.3	0.4	6.0	1.0	1.5	9.1	4.9	5.7	4.3	1.6	1.8
16	3.0	0.3	0.4	2.6	1.2	1.5	8.4	4.4	4.8	9.7	1.8	2.1
17	1.0	0.3	0.4	6.5	1.3	1.6	6.9	4.4	4.9	9.1	1.7	1.9
18	1.7	0.3	0.5	6.7	1.3	1.6	9.6	4.1	4.5	6.9	1.7	1.9
19	2.2	0.4	0.9	8.2	1.3	1.7	---	---	---	9.9	1.6	1.9
20	1.2	0.4	0.6	10	1.9	3.1	6.1	3.4	3.7	8.5	1.7	1.9
21	3.3	0.5	0.8	5.3	1.8	2.5	7.9	3.2	3.5	9.4	1.8	2.1
22	2.0	0.8	1.0	5.0	1.6	1.9	8.4	3.1	3.4	7.2	2.0	2.5
23	2.1	0.9	1.5	4.0	1.5	1.8	7.7	3.0	3.2	9.3	2.2	2.5
24	2.7	1.5	1.8	8.4	1.6	2.0	6.9	3.3	4.0	9.0	2.0	2.3
25	2.4	1.8	1.9	9.7	1.4	2.0	14	4.2	5.2	10	1.9	2.1
26	2.6	1.4	1.7	7.3	1.5	2.1	11	4.0	4.7	5.9	1.7	2.0
27	4.3	1.2	1.4	4.2	1.5	1.7	11	4.3	4.9	8.2	1.5	2.1
28	5.3	1.3	1.4	3.7	1.4	1.6	7.5	3.9	4.3	9.7	1.3	1.5
29	2.4	1.1	1.3	5.2	1.4	1.7	8.7	4.1	4.4	4.3	1.5	1.7
30	2.3	1.2	1.3	4.5	1.4	1.7	7.3	3.8	4.2	2.4	1.6	1.8
31	3.5	1.0	1.2	---	---	---	7.1	3.5	3.8	8.3	1.5	1.8
Max	8.1	1.8	1.9	10	1.9	3.1	---	---	---	10	3.2	3.5
Min	0.8	0.3	0.4	1.9	0.8	1.1	---	---	---	2.4	1.3	1.5

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		February			March			April			May	
1	8.8	1.4	1.7	2.7	1.0	1.4	1.6	0.9	1.1	1.5	0.7	0.9
2	8.8	1.4	1.6	1.8	0.9	1.1	1.6	0.9	1.1	1.4	0.7	0.8
3	9.0	1.3	1.6	2.0	0.9	1.0	2.1	0.9	1.0	1.8	0.7	0.9
4	2.7	1.2	1.4	1.3	0.8	1.0	1.5	0.9	1.0	1.6	0.8	0.9
5	6.1	1.2	1.5	1.6	0.8	0.9	1.7	0.9	1.0	1.9	0.8	0.9
6	6.3	1.2	1.5	1.3	0.8	1.0	1.8	0.9	1.1	2.1	0.8	0.9
7	5.5	1.3	1.5	1.9	0.8	1.0	1.8	0.8	1.1	1.7	0.8	1.0
8	5.5	1.4	1.6	1.8	0.7	1.0	1.9	0.8	1.0	2.6	1.0	1.3
9	5.9	1.3	1.5	2.6	0.7	0.9	1.5	0.9	1.1	2.8	0.9	1.3
10	3.9	1.1	1.4	2.2	0.7	0.9	2.2	0.9	1.1	2.8	0.8	1.0
11	4.9	1.1	1.2	2.1	0.8	1.0	2.1	0.8	1.0	2.5	0.8	0.9
12	4.3	1.0	1.2	1.4	0.7	0.9	2.1	0.8	1.0	3.0	0.8	0.9
13	5.2	1.0	1.1	1.5	0.7	0.9	2.7	0.8	1.0	3.0	0.7	0.9
14	1.4	0.9	1.0	2.7	0.7	0.9	2.1	0.8	0.9	3.3	0.7	0.9
15	3.7	0.9	1.4	2.5	0.7	0.9	1.9	0.8	1.0	4.6	0.7	0.9
16	3.9	1.2	1.4	3.2	0.7	1.0	1.9	0.8	1.0	9.1	1.2	3.5
17	3.7	1.1	1.2	3.2	1.1	1.3	1.3	0.8	1.0	6.3	1.3	2.6
18	2.9	1.0	1.2	3.4	1.1	1.4	1.6	0.7	0.9	9.8	1.2	2.7
19	2.5	0.9	1.2	3.3	1.0	1.3	1.8	0.7	0.9	11	1.2	2.4
20	3.0	0.9	1.1	2.7	0.8	1.1	1.7	0.8	1.0	10	1.3	2.5
21	2.1	0.9	1.1	2.1	0.8	1.1	1.4	0.7	1.0	8.5	1.2	2.8
22	3.9	0.9	1.1	1.8	0.9	1.1	1.5	0.7	0.9	6.6	1.6	2.4
23	2.6	0.9	1.1	1.5	0.8	1.1	2.1	0.7	0.9	7.5	1.9	3.5
24	2.9	0.9	1.1	1.9	0.9	1.1	1.2	0.8	0.9	7.9	2.4	3.5
25	1.7	0.9	1.1	1.6	0.9	1.1	1.7	0.8	0.9	4.5	2.1	2.5
26	2.7	0.9	1.1	1.9	0.8	1.0	1.3	0.8	0.9	5.3	2.3	3.0
27	1.4	0.9	1.0	1.6	0.8	1.1	1.9	0.7	0.9	4.3	2.5	2.7
28	3.0	0.8	1.0	2.4	0.9	1.1	2.3	0.7	0.9	3.5	2.5	2.8
29	2.5	0.9	1.0	1.9	0.9	1.1	1.6	0.8	1.0	4.1	2.1	2.6
30	---	---	---	1.8	0.9	1.1	1.8	0.7	0.9	2.8	2.1	2.4
31	---	---	---	1.6	0.9	1.0	---	---	---	4.0	1.7	2.0
Max	9.0	1.4	1.7	3.4	1.1	1.4	2.7	0.9	1.1	11	2.5	3.5
Min	1.4	0.8	1.0	1.3	0.7	0.9	1.2	0.7	0.9	1.4	0.7	0.8

14181500 NORTH SANTIAM RIVER AT NIAGARA, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		June			July			August			September	
1	2.5	1.7	2.0	2.1	0.7	1.0	2.1	0.1	0.6	5.7	0.2	0.4
2	3.7	1.8	2.2	1.7	0.7	0.9	2.3	0.4	0.5	1.4	0.2	0.4
3	3.9	1.6	1.9	1.5	0.7	1.0	2.2	0.4	0.5	1.5	0.2	0.3
4	3.1	1.7	1.9	1.5	0.7	0.8	2.3	0.3	0.5	1.4	0.2	0.4
5	6.4	1.5	2.0	1.9	0.7	0.8	2.3	0.4	0.5	6.9	0.2	0.4
6	4.2	1.5	1.7	1.8	0.8	1.0	2.8	0.3	0.5	1.0	0.2	0.3
7	4.2	1.5	1.8	3.3	0.6	0.9	1.3	0.2	0.4	1.1	0.2	0.3
8	5.0	1.4	1.6	2.2	0.7	0.9	2.5	0.3	0.5	1.9	0.2	0.4
9	3.7	1.3	1.5	8.1	0.8	1.6	2.6	0.3	0.6	2.1	0.2	0.4
10	4.9	1.3	1.6	3.9	1.1	2.0	2.0	0.3	0.5	1.1	0.2	0.4
11	3.6	1.2	1.5	3.1	1.2	1.9	2.6	0.3	0.4	1.9	0.2	0.5
12	2.4	1.1	1.3	3.8	1.1	1.3	1.5	0.3	0.4	4.1	0.2	0.5
13	3.0	1.1	1.2	1.6	1.0	1.2	2.5	0.3	0.4	2.5	0.1	0.5
14	3.8	1.1	1.3	2.0	1.0	1.1	1.8	0.3	0.4	2.8	0.2	0.4
15	4.1	1.1	1.2	1.8	0.9	1.1	2.2	0.2	0.4	3.7	0.2	0.5
16	3.4	1.0	1.2	2.1	0.9	1.0	1.0	0.2	0.3	4.6	0.2	0.8
17	2.5	1.0	1.1	1.5	0.6	0.9	1.1	0.2	0.3	4.1	0.3	0.8
18	2.7	1.0	1.1	2.1	0.7	0.8	0.6	0.2	0.3	5.2	0.4	1.3
19	2.7	0.9	1.1	1.5	0.7	0.8	0.8	0.2	0.3	5.0	0.4	1.2
20	2.2	0.9	1.0	1.5	0.6	0.8	0.6	0.2	0.3	6.1	0.3	0.7
21	2.2	0.9	1.0	1.1	0.6	0.7	1.6	0.0	0.2	2.8	0.3	0.5
22	3.0	0.9	1.0	1.2	0.5	0.6	1.1	0.0	0.3	2.1	0.3	0.6
23	2.7	0.8	1.0	1.2	0.5	0.6	1.0	0.1	0.1	1.9	0.4	0.6
24	1.7	0.7	0.9	1.3	0.4	0.6	1.5	0.0	0.1	2.7	0.2	0.5
25	1.6	0.8	0.9	0.9	0.4	0.5	1.5	0.1	0.1	1.7	0.3	0.5
26	1.4	0.7	0.9	1.7	0.3	0.5	1.0	0.0	0.1	1.0	0.2	0.3
27	2.7	0.7	0.9	1.2	0.3	0.5	0.6	0.1	0.1	5.6	0.2	0.3
28	2.3	0.8	0.9	3.1	0.3	0.5	0.4	0.1	0.1	4.1	0.1	0.3
29	1.5	0.7	0.9	1.7	0.4	0.5	1.1	0.1	0.2	2.1	0.2	0.3
30	1.4	0.7	0.9	2.7	0.4	0.6	1.5	0.1	0.2	1.3	0.0	0.3
31	---	---	---	2.0	0.4	0.5	1.0	0.1	0.3	---	---	---
Max	6.4	1.8	2.2	8.1	1.2	2.0	2.8	0.4	0.6	6.9	0.4	1.3
Min	1.4	0.7	0.9	0.9	0.3	0.5	0.4	0.0	0.1	1.0	0.0	0.3