Water-Data Report 2013

04213500 CATTARAUGUS CREEK AT GOWANDA, NY

Eastern Lake Erie Basin
Cattaraugus Subbasin

LOCATION.--Lat 42°27′48″, long 78°56′03″ referenced to North American Datum of 1983, Erie County, NY, Hydrologic Unit 04120102, on right bank 15 ft upstream from bridge on State Highways 39 and 62 at Gowanda, 4.2 mi downstream from South Branch, and 17.8 mi upstream from mouth.

DRAINAGE AREA.--436 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1939 to March 1998, October 1999 to current year.

REVISED RECORDS.--WSP 2112: Datum. WDR NY-71-1: 1956 (M). WDR NY-74-1: 1940-42 (M). WDR NY-82-3: Drainage area. WDR-US-09: 1990-98, 2000-08 (P).

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft above NGVD of 1929. Prior to Oct. 1, 1969, at datum 0.11 ft lower. Prior to May 29, 2011, at location 470 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low and medium flow caused by powerplant 20 mi upstream from station. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,600 ft^3/s, Mar. 7, 1956, gage height, 14.03 ft; minimum discharge, about 6 ft^3/s, Aug. 21, 1941, result of regulation; minimum gage height, 0.90 ft, Oct. 26, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 30	0545	12,000	8.45
Mar 12	0545	13,100	8.81
Apr 10	2145	*17,400	*10.06
Apr 12	1315	8,690	7.27
Jun 6	2215	8,100	7.04

Minimum discharge, 103 ft^3/s, Oct. 5, gage height, 1.26 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04213500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04213500.2013.pdf

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	111	1,460	218	504	2,160	1,110	2,530	462	380	318	159	167
2	113	1,590	289	476	1,390	893	1,610	423	712	314	165	279
3	126	985	598	461	e1,170	791	1,130	392	551	397	153	204
4	114	708	488	457	1,020	729	925	370	376	327	139	187
5	106	554	1,810	453	920	688	1,100	350	309	283	135	166
6	214	454	874	451	e820	649	1,100	335	2,360	260	134	148
7	214	383	620	457	743	633	1,480	322	3,910	258	127	149
8	224	335	685	429	779	614	2,250	314	1,520	312	711	223
9	175	304	714	432	815	627	1,870	413	975	281	1,880	193
10	149	287	1,410	562	e670	1,010	8,550	463	685	341	757	178
11	151	271	1,940	746	e880	3,880	7,190	1,260	876	734	376	211
12	157	256	1,030	2,820	1,200	7,770	5,320	804	836	421	263	218
13	152	620	715	3,270	930	2,920	3,180	579	1,080	308	1,120	238
14	147	491	579	2,310	809	1,660	2,050	476	1,090	259	524	213
15	158	379	505	1,300	790	1,280	1,470	417	645	231	308	178
16	152	330	470	915	700	1,070	1,310	364	503	211	244	163
17	138	299	471	746	599	913	1,350	323	506	194	213	153
18	134	275	1,010	e590	547	801	1,040	299	405	181	194	143
19	301	258	1,320	e540	e680	802	966	285	354	173	181	135
20	253	246	804	586	706	747	1,100	274	313	297	171	130
21	307	236	929	524	637	711	885	261	286	281	161	265
22	247	224	962	e440	618	691	757	252	268	218	156	453
23	497	219	734	e450	610	661	682	277	256	626	212	263
24	1,090	229	643	e450	565	631	665	444	261	363	158	203
25	559	227	595	e440	537	624	785	340	237	255	144	173
26	373	225	e500	e450	527	622	677	281	230	211	155	155
27	393	221	e480	e450	1,360	747	592	252	226	192	237	145
28	753	220	e560	e550	1,590	743	542	375	260	186	259	139
29	1,770	217	e530	e2,600	---	855	535	2,410	328	176	215	132
30	7,950	219	e510	e7,500	---	1,410	507	e1,000	302	168	176	127
31	2,090	---	506	5,030	---	1,790	---	e250	---	158	163	---
Total	19,318	12,722	23,499	37,389	24,772	39,072	54,148	15,067	21,040	8,934	9,990	5,731
Mean	623	424	758	1,206	885	1,260	1,805	486	701	288	322	191
Max	7,950	1,590	1,940	7,500	2,160	7,770	8,550	2,410	3,910	734	1,880	453
Min	106	217	218	429	527	614	507	250	226	158	127	127
Cfsm	1.43	0.97	1.74	2.77	2.03	2.89	4.14	1.11	1.61	0.66	0.74	0.44
In.	1.65	1.09	2.00	3.19	2.11	3.33	4.62	1.29	1.80	0.76	0.85	0.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	438	727	996	897	955	1,598	1,428	737	485	304	271	327
Max	1,780	1,772	2,168	2,305	2,819	3,824	3,686	1,948	1,436	867	1,520	2,423
(WY)	(2007)	(1986)	(2009)	(1998)	(1976)	(1945)	(1947)	(1943)	(1989)	(1986)	(2009)	(1977)
Min	81.8	118	111	136	222	790	279	283	143	78.3	79.5	85.8
(WY)	(1964)	(1961)	(1961)	(1961)	(1963)	(2001)	(1946)	(1941)	(1955)	(1955)	(1941)	(1960)

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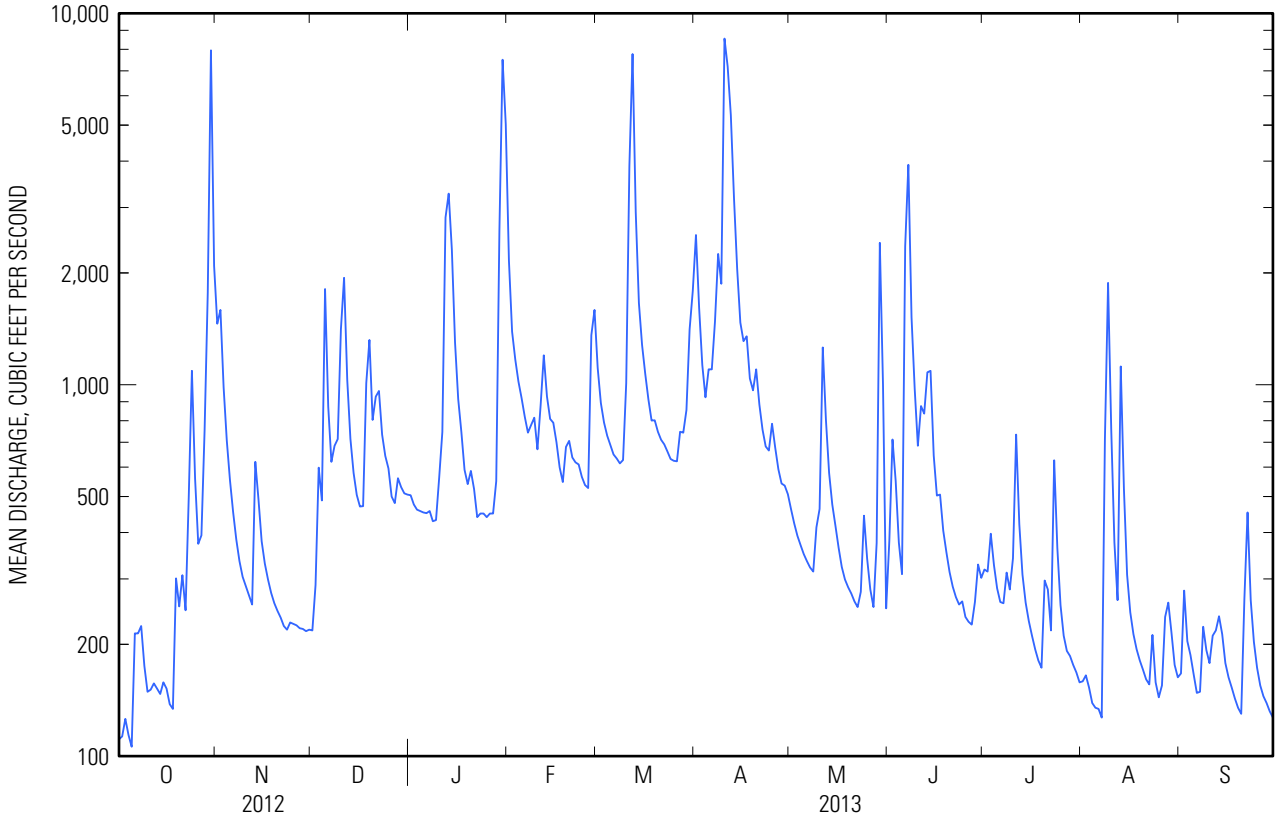
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1940 - 2013	
Annual total	236,871		271,682			
Annual mean	647		744		760	
Highest annual mean					1,030	1977
Lowest annual mean					532	1995
Highest daily mean	7,950	Oct 30	8,550	Apr 10	22,900	Mar 17, 1942
Lowest daily mean	72	Sep 2	106	Oct 5	52	Sep 13, 1945
Annual seven-day minimum	80	Aug 29	143	Oct 1	57	Sep 7, 1945
Annual runoff (cfsm)	1.48		1.71		1.74	
Annual runoff (inches)	20.21		23.18		23.67	
10 percent exceeds	1,440		1,430		1,610	
50 percent exceeds	384		454		439	
90 percent exceeds	113		160		130	



04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 2011 to current year.
CHEMICAL DATA: Water years 2011-12 (d), 2013 (e).
NUTRIENT DATA: Water years 2011-12 (d), 2013 (e).
INORGANIC DATA: Water years 2011 (a), 2012-13 (d).
ORGANIC DATA: Water year 2011 (a).
SEDIMENT DATA: Water years 2011-12 (d), 2013 (e).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 2011 to current year.
SPECIFIC CONDUCTANCE: June 2011 to current year.
pH: June 2011 to current year.
DISSOLVED OXYGEN: June 2011 to current year.
TURBIDITY: June 2011 to current year.

INSTRUMENTATION.--ISCO refrigerated automatic sampler since June 2011. A YSI 6920-V2 continuous monitor with water temperature, specific conductance, pH, dissolved oxygen and turbidity since June 2011 provides 15-minute-interval readings.

REMARKS.—Interruptions of record occurred to the YSI monitor data on April 14 to April 23 due to instrument malfunction.

COOPERATION.--In cooperation with the U.S. Environmental Protection Agency's Great Lakes Restoration Initiative (GLRI).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 33.0°C, July 22, 2011; minimum, -0.1°C, on several days.
SPECIFIC CONDUCTANCE: Maximum, 590 µS/cm @ 25°C, Sept. 20, 21, 2011; minimum, 122 µS/cm @ 25°C, Oct. 28, 29, 2011.
pH: Maximum, 8.9, Apr. 29, 30, May 1, 2013; minimum, 7.7, Jan 29, 2013.
DISSOLVED OXYGEN: Maximum, 14.7 mg/L, Jan. 8, 9, 2013; minimum, 6.7 mg/L, July 17, 2012.
TURBIDITY: Maximum, >1,360 FNU, May 29, 2013; minimum, 3.0 FNU, Aug. 21, 22, 2013.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 31.8°C, July 18; minimum, -0.1°C, on several days.
SPECIFIC CONDUCTANCE: Maximum, 495 µS/cm @ 25°C, Sept. 30; minimum, 167 µS/cm @ 25°C, Apr. 10, 11.
pH: Maximum, 8.9 standard units, Apr. 29, 30, May 1; minimum, 7.7 standard units, Jan. 29.
DISSOLVED OXYGEN: Maximum, 14.7 mg/L, Jan. 8, 9; minimum, 7.0 mg/L, July 18.
TURBIDITY: Maximum, >1,360 FNU, May 29; minimum, 3 FNU, Aug. 21, 22.

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	15.1	12.1	13.4	8.2	7.9	8.1	3.8	1.5	2.6	0.2	0.0	0.0
2	15.0	13.1	14.1	7.9	6.6	7.3	6.3	3.7	5.1	0.2	0.0	0.0
3	17.9	15.0	16.4	6.6	5.9	6.2	8.1	6.3	7.2	0.1	0.0	0.0
4	20.3	15.8	17.4	5.9	5.4	5.6	9.9	8.1	9.0	0.3	0.0	0.0
5	17.2	15.8	16.4	5.4	4.7	5.0	9.3	4.5	6.9	0.3	0.0	0.1
6	15.8	12.3	13.9	5.8	4.0	4.7	4.5	2.8	3.4	0.8	0.1	0.5
7	12.3	9.9	11.4	4.1	2.5	3.4	4.6	3.1	3.8	1.4	0.4	0.9
8	12.1	9.2	10.4	4.2	1.8	2.9	5.9	4.6	5.3	0.9	0.0	0.2
9	13.1	7.8	10.2	4.9	2.7	3.8	5.6	4.8	5.2	1.2	0.0	0.3
10	11.1	8.8	9.9	7.0	4.7	5.6	6.2	5.4	5.9	1.8	0.3	1.1
11	11.7	7.6	9.3	9.5	7.0	8.2	5.7	3.5	4.4	3.3	1.3	2.3
12	11.2	7.5	9.4	11.4	8.5	9.9	3.5	2.4	3.0	3.9	2.4	3.1
13	8.5	5.5	7.3	9.5	5.6	7.1	2.4	1.3	1.8	6.2	3.5	4.7
14	15.7	8.5	12.6	6.4	4.4	5.3	2.7	1.1	1.8	6.2	3.0	4.7
15	14.5	11.6	13.4	5.2	3.0	4.0	3.3	1.1	2.2	3.0	1.8	2.2
16	11.6	9.4	10.9	4.8	2.5	3.6	5.5	3.3	4.5	2.3	1.6	1.9
17	11.5	7.9	9.9	4.7	2.3	3.4	6.4	5.5	5.9	1.8	0.7	1.6
18	13.6	9.9	11.5	4.5	2.2	3.3	6.3	5.1	5.8	0.7	0.0	0.1
19	13.2	9.7	11.4	4.8	2.1	3.4	5.1	4.4	4.7	2.0	0.0	0.8
20	12.0	10.6	11.3	5.3	3.3	4.3	4.4	3.8	4.0	2.4	0.0	1.4
21	12.3	9.6	10.7	5.8	3.2	4.2	4.1	1.9	3.7	0.0	0.0	0.0
22	12.2	8.3	10.3	5.4	2.6	3.8	1.9	1.0	1.3	0.0	0.0	0.0
23	11.9	11.2	11.5	5.4	3.7	4.3	1.6	0.6	1.2	0.0	0.0	0.0
24	13.0	11.8	12.4	3.7	1.6	2.7	2.2	1.3	1.8	0.0	0.0	0.0
25	15.4	12.4	13.9	2.0	1.3	1.6	2.6	1.8	2.1	0.0	0.0	0.0
26	15.8	13.2	14.3	2.0	1.5	1.8	1.8	0.0	0.9	0.0	0.0	0.0
27	13.6	10.8	12.0	2.6	1.8	2.2	0.1	0.0	0.0	0.0	0.0	0.0
28	10.8	8.8	9.6	2.2	1.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
29	8.8	8.0	8.4	3.8	1.2	2.0	0.0	0.0	0.0	0.6	0.0	0.1
30	9.4	8.0	8.9	2.4	1.6	2.0	0.0	0.0	0.0	5.7	0.5	3.3
31	9.0	8.1	8.4	---	---	---	0.1	0.0	0.0	5.7	0.0	3.1
Month	20.3	5.5	11.6	11.4	1.2	4.4	9.9	0.0	3.3	6.2	0.0	1.0

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

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

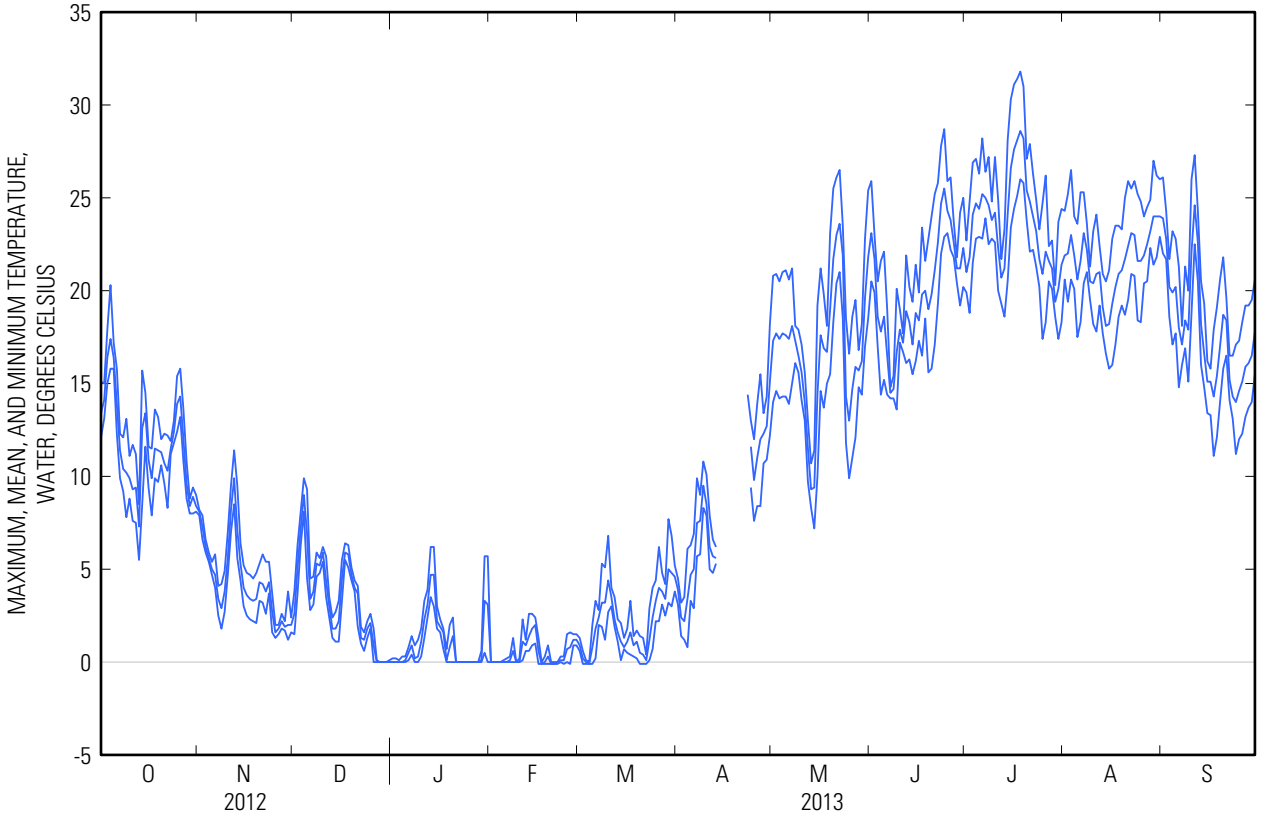
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	0.0	0.0	0.0	1.3	0.6	0.9	4.5	3.1	3.9	20.8	14.0	17.3
2	0.0	0.0	0.0	0.6	-0.1	0.2	3.2	1.4	2.4	20.9	14.6	17.7
3	0.0	0.0	0.0	0.1	-0.1	0.0	3.5	1.2	2.2	20.5	14.2	17.4
4	0.0	0.0	0.0	0.0	-0.1	-0.1	6.1	0.8	3.4	21.0	14.3	17.7
5	0.1	0.0	0.0	2.0	-0.1	0.8	6.3	3.3	4.7	21.1	14.3	17.6
6	0.2	0.0	0.0	3.3	0.2	1.8	6.9	2.9	5.0	20.6	13.9	17.4
7	0.3	0.0	0.1	2.8	2.0	2.4	9.9	5.7	7.5	21.2	15.0	18.1
8	1.3	0.0	0.6	5.3	1.9	3.2	9.0	5.8	7.6	18.1	16.1	17.3
9	0.0	0.0	0.0	5.1	1.2	3.2	10.8	8.3	9.5	17.9	15.6	16.5
10	0.2	0.0	0.0	6.8	2.7	4.4	10.1	7.9	8.5	17.1	14.1	15.6
11	2.3	0.1	1.1	4.0	3.0	3.5	7.9	5.0	6.2	15.6	13.0	14.0
12	1.2	0.6	0.9	3.5	1.9	2.3	6.6	4.8	5.7	13.0	9.7	11.5
13	2.6	0.6	1.4	2.3	1.1	1.6	6.2	5.3	5.6	10.7	8.3	9.3
14	2.6	0.9	1.8	2.1	0.1	1.1	---	---	---	11.4	7.2	9.4
15	2.4	1.0	2.0	1.3	0.7	0.8	---	---	---	19.2	10.0	14.4
16	1.3	-0.1	0.6	1.8	0.5	1.1	---	---	---	21.2	14.6	17.6
17	0.0	-0.1	-0.1	3.3	0.4	1.6	---	---	---	19.8	13.7	16.9
18	0.3	-0.1	0.0	1.4	0.3	0.9	---	---	---	18.1	15.0	16.7
19	0.9	-0.1	0.3	1.7	0.2	1.1	---	---	---	23.1	15.5	19.0
20	0.0	-0.1	-0.1	1.4	-0.1	0.5	---	---	---	25.5	18.3	21.7
21	0.0	-0.1	-0.1	1.3	-0.1	0.4	---	---	---	26.1	20.4	23.0
22	0.0	-0.1	0.0	0.4	-0.1	0.1	---	---	---	26.5	21.0	23.6
23	0.3	0.0	0.1	2.9	0.1	1.2	14.4	---	---	23.5	18.5	21.9
24	0.3	-0.1	0.1	4.0	0.7	2.4	13.0	9.4	11.6	18.5	11.8	14.3
25	1.5	0.0	0.7	4.4	2.2	3.3	12.0	7.6	9.8	16.6	9.9	13.0
26	1.6	-0.1	0.8	6.2	2.2	4.0	13.9	8.4	11.0	18.6	11.0	14.7
27	1.5	0.9	1.2	4.8	3.1	3.8	15.5	8.4	12.0	19.5	12.1	15.9
28	1.5	0.9	1.2	4.2	2.5	3.4	13.4	10.7	12.3	16.8	14.8	15.7
29	---	---	---	7.7	3.2	5.0	14.3	10.9	12.7	18.2	14.4	16.2
30	---	---	---	6.8	3.0	4.8	18.2	12.2	15.1	22.8	17.0	19.6
31	---	---	---	5.2	3.8	4.6	---	---	---	25.4	18.5	21.8
Month	2.6	-0.1	0.5	7.7	-0.1	2.1	---	---	---	26.5	7.2	16.9

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	25.9	20.5	23.1	22.7	19.9	21.0	24.3	20.6	21.9	26.1	22.0	23.9
2	23.0	19.9	21.7	24.8	18.8	21.8	25.2	19.4	22.0	24.3	21.7	22.8
3	20.5	17.0	18.6	26.9	21.5	24.1	26.5	20.6	23.0	21.7	18.6	20.2
4	21.6	14.4	17.8	27.1	22.8	24.7	24.0	20.1	21.9	23.2	17.1	19.9
5	22.1	15.2	18.6	26.3	22.9	24.4	23.6	17.5	20.6	22.8	17.7	20.2
6	19.0	14.4	16.5	28.2	22.8	25.2	25.3	18.3	21.6	21.3	14.8	18.0
7	14.8	14.2	14.5	26.4	23.9	25.0	25.3	20.4	23.1	18.1	16.0	17.1
8	15.4	14.2	14.7	27.2	22.5	24.6	23.6	21.0	22.2	21.3	16.9	18.4
9	20.1	13.6	16.7	24.8	22.8	23.8	21.3	19.5	20.5	20.0	15.1	17.9
10	19.0	17.2	17.9	27.2	22.6	24.2	23.2	18.2	20.4	26.0	18.8	22.1
11	17.7	16.7	17.2	24.9	20.0	22.3	24.1	17.8	20.9	27.3	22.5	24.6
12	21.9	16.1	18.9	21.7	19.3	20.7	22.4	19.2	21.0	24.3	20.5	22.6
13	20.2	16.3	18.3	23.3	18.6	21.2	20.9	17.7	19.1	20.5	16.0	18.2
14	19.4	15.5	17.1	28.1	20.5	24.1	20.5	16.6	18.1	19.3	14.8	16.6
15	21.4	16.2	18.8	30.3	23.4	26.6	21.1	15.8	18.2	16.2	13.4	15.1
16	19.9	17.3	18.4	31.1	24.4	27.6	22.8	16.0	19.3	15.8	13.3	15.1
17	23.4	16.5	19.8	31.4	25.1	28.1	23.5	17.1	20.2	17.9	11.1	14.3
18	21.6	18.5	20.0	31.8	26.0	28.6	23.5	18.6	20.9	19.1	12.1	15.4
19	22.8	15.6	19.0	31.0	25.8	28.2	23.3	19.2	21.1	20.6	14.0	17.0
20	24.0	15.8	19.8	27.1	23.8	25.4	25.0	18.7	21.7	21.8	15.8	18.7
21	25.2	17.1	21.1	27.9	22.1	24.8	25.9	19.5	22.4	19.6	16.5	18.4
22	25.8	19.3	22.6	26.3	22.2	24.0	25.5	20.9	23.1	16.5	14.1	15.2
23	27.8	22.0	24.7	24.9	21.3	23.2	25.9	20.8	23.0	16.5	13.1	14.3
24	28.7	22.9	25.5	23.3	20.2	21.7	25.2	18.4	21.6	17.1	11.2	14.0
25	25.9	23.1	24.3	24.7	17.4	20.9	24.8	18.3	21.6	17.3	12.0	14.6
26	26.1	22.2	23.8	26.2	18.3	22.1	24.0	20.4	21.9	18.3	12.3	15.1
27	23.7	21.8	22.6	22.4	20.5	21.6	24.5	20.5	22.5	19.2	13.2	15.9
28	21.8	20.4	21.2	22.7	20.1	21.2	24.9	22.3	23.2	19.2	13.7	16.1
29	24.2	19.2	21.2	20.3	18.6	19.4	27.0	21.4	24.0	19.5	14.0	16.5
30	25.0	20.2	22.3	23.7	17.4	20.1	26.2	21.8	24.0	20.6	15.5	17.8
31	---	---	---	24.4	18.3	21.4	26.0	22.9	24.0	---	---	---
Month	28.7	13.6	19.9	31.8	17.4	23.6	27.0	15.8	21.6	27.3	11.1	17.9

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued



04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	483	452	460	289	265	274	430	419	424	428	417	421
2	470	452	458	265	252	259	423	405	414	436	410	424
3	474	452	457	289	264	277	414	382	399	436	420	430
4	474	450	459	319	289	305	427	394	412	435	427	431
5	475	452	460	343	319	332	413	314	337	444	427	434
6	466	417	441	361	342	352	383	329	358	431	422	427
7	467	436	450	377	360	370	414	383	402	433	424	429
8	457	440	444	391	377	384	420	413	417	450	429	438
9	459	444	452	399	389	394	414	405	409	451	431	440
10	461	447	454	407	398	402	408	302	369	436	425	430
11	460	450	455	409	403	406	302	238	252	431	367	419
12	457	444	450	420	405	410	280	255	267	378	244	298
13	461	450	456	407	326	360	309	280	295	245	229	233
14	459	448	453	346	331	338	332	309	321	249	227	236
15	461	447	455	364	346	354	348	332	340	271	249	260
16	469	456	462	378	362	371	359	348	354	292	271	282
17	476	458	464	390	377	384	368	359	365	311	292	302
18	468	427	457	398	389	393	371	302	348	324	311	319
19	451	423	436	404	396	400	302	282	291	340	322	333
20	446	417	425	411	404	407	334	302	319	347	340	344
21	442	420	430	422	409	413	348	309	339	364	344	355
22	435	424	429	422	414	418	328	301	311	398	364	385
23	434	349	415	444	416	423	362	328	345	410	397	405
24	349	306	320	437	422	428	375	362	371	421	409	416
25	364	324	346	442	420	429	391	375	383	428	420	424
26	387	364	377	443	427	434	399	391	396	428	424	426
27	397	385	391	439	428	433	440	398	412	432	424	428
28	395	336	368	439	425	430	414	401	410	466	425	437
29	336	227	307	433	422	428	414	401	410	470	263	377
30	227	170	189	435	422	428	429	406	415	263	195	211
31	267	208	236	---	---	---	436	406	420	211	202	208
Month	483	170	415	444	252	381	440	238	365	470	195	368

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

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

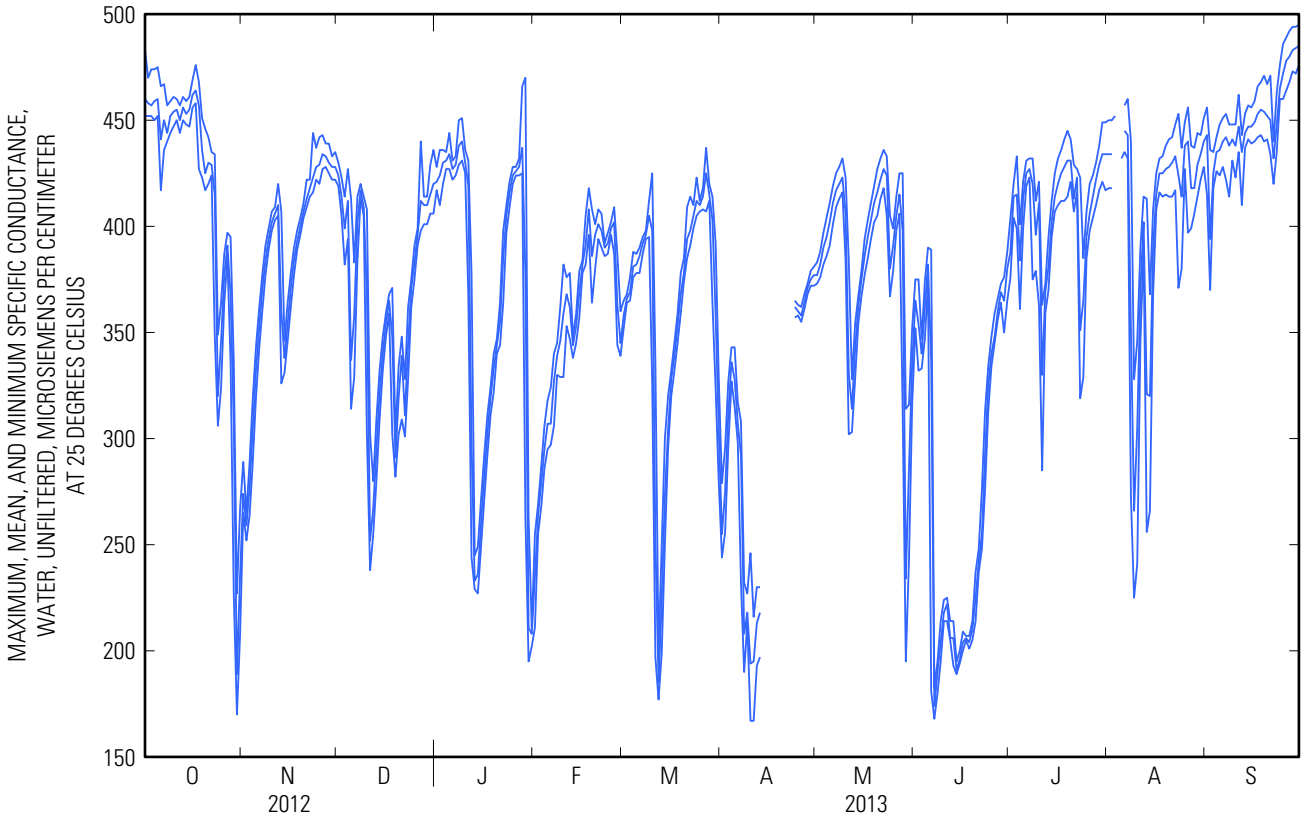
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	255	211	235	365	352	358	279	244	255	383	373	377
2	269	255	264	368	364	366	296	256	275	388	376	382
3	287	268	279	376	365	369	327	296	312	397	382	390
4	306	286	295	388	376	381	343	327	336	404	386	395
5	318	295	307	387	378	382	343	315	328	411	391	402
6	324	297	307	390	378	386	317	298	307	419	401	411
7	340	306	327	395	387	392	308	232	292	425	409	417
8	345	330	339	398	394	396	232	190	208	428	413	420
9	362	329	346	412	395	405	227	213	218	432	416	423
10	382	329	359	425	326	398	246	167	194	423	384	406
11	376	353	368	336	197	252	216	167	195	384	302	331
12	378	347	362	199	177	185	230	193	213	328	303	314
13	348	338	344	250	199	224	230	197	218	354	328	342
14	359	345	353	300	250	273	---	---	---	367	354	362
15	379	357	369	320	295	304	---	---	---	379	367	375
16	384	378	382	332	320	328	---	---	---	394	377	386
17	405	382	391	345	332	339	---	---	---	403	385	395
18	418	396	408	359	345	353	---	---	---	411	394	403
19	408	364	386	378	359	368	---	---	---	419	402	411
20	401	380	396	385	374	378	---	---	---	427	405	416
21	408	394	401	409	385	394	---	---	---	432	413	422
22	406	390	398	414	391	398	---	---	---	436	418	427
23	392	386	390	410	399	405	---	---	---	433	405	424
24	397	387	392	423	405	412	365	357	362	405	367	380
25	402	396	399	412	407	410	363	358	360	399	379	391
26	409	387	402	418	408	414	362	355	358	414	398	405
27	387	344	363	437	407	425	368	361	364	425	406	415
28	360	339	345	420	412	415	373	368	371	425	314	398
29	---	---	---	414	364	403	379	372	375	314	195	234
30	---	---	---	392	324	358	381	372	377	316	243	286
31	---	---	---	328	279	304	---	---	---	352	316	335
Month	418	211	354	437	177	360	---	---	---	436	195	383

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	375	352	365	404	376	388	450	418	434	456	415	443
2	375	332	354	420	404	414	450	418	434	436	370	394
3	347	333	340	433	399	415	452	---	---	435	418	425
4	374	347	362	401	361	384	---	---	---	442	426	435
5	390	373	382	421	399	413	---	432	---	448	424	436
6	389	181	337	431	419	425	457	435	445	451	428	440
7	183	168	174	432	423	427	460	432	443	453	422	442
8	195	180	190	432	375	420	440	273	352	448	414	438
9	214	195	204	412	379	396	328	225	266	448	431	441
10	224	214	218	421	363	411	346	241	305	448	423	438
11	225	214	222	363	285	330	390	346	370	462	435	447
12	214	205	206	373	359	369	414	390	402	443	410	435
13	214	193	206	395	370	381	413	256	321	453	437	444
14	195	189	191	412	395	402	368	266	320	457	441	447
15	200	194	196	425	407	414	408	368	390	456	439	447
16	209	200	204	432	410	420	425	408	415	459	440	449
17	207	205	206	436	412	425	432	416	425	466	442	453
18	207	201	204	441	412	428	433	414	425	468	443	455
19	214	205	210	445	414	431	438	415	427	471	440	454
20	237	214	225	441	421	431	441	414	428	467	441	452
21	248	237	242	429	407	413	442	414	430	471	434	450
22	276	248	255	427	416	423	448	417	433	440	420	432
23	313	276	293	423	319	351	453	371	424	463	435	448
24	334	313	325	385	329	365	437	380	414	476	460	465
25	348	334	340	407	385	395	449	427	438	486	460	472
26	359	345	348	420	398	406	456	397	440	489	464	478
27	366	356	360	424	404	414	438	399	418	492	468	480
28	373	364	369	430	410	422	437	406	418	494	473	483
29	376	350	365	438	417	429	444	414	429	494	472	484
30	388	365	380	449	421	434	443	422	434	495	476	485
31	---	---	---	449	417	434	451	428	440	---	---	---
Month	390	168	276	449	285	407	---	---	---	495	370	450

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued



04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	8.4	8.3	8.3	8.2	8.1	8.1	8.5	8.2	8.3	8.3	8.1	8.2
2	8.4	8.2	8.3	8.1	8.0	8.1	8.4	8.3	8.3	8.3	8.1	8.2
3	8.4	8.2	8.3	8.1	8.0	8.1	8.3	8.2	8.2	8.3	8.1	8.2
4	8.4	8.3	8.3	8.1	8.1	8.1	8.4	8.2	8.2	8.4	8.1	8.2
5	8.4	8.3	8.3	8.2	8.1	8.1	8.2	8.0	8.0	8.4	8.1	8.2
6	8.5	8.2	8.3	8.2	8.2	8.2	8.2	8.0	8.1	8.4	8.2	8.2
7	8.5	8.3	8.4	8.2	8.2	8.2	8.2	8.1	8.1	8.4	8.2	8.2
8	8.5	8.2	8.4	8.2	8.2	8.2	8.2	8.1	8.1	8.4	8.1	8.2
9	8.5	8.2	8.4	8.3	8.2	8.2	8.3	8.1	8.2	8.4	8.1	8.2
10	8.5	8.3	8.4	8.3	8.2	8.2	8.1	8.0	8.1	8.4	8.1	8.2
11	8.5	8.3	8.4	8.3	8.2	8.3	8.0	8.0	8.0	8.4	8.1	8.2
12	8.5	8.3	8.4	8.3	8.3	8.3	8.1	8.0	8.1	8.1	8.0	8.0
13	8.4	8.2	8.3	8.3	8.2	8.2	8.2	8.1	8.1	8.0	8.0	8.0
14	8.5	8.3	8.4	8.2	8.2	8.2	8.3	8.1	8.1	8.0	7.9	7.9
15	8.5	8.3	8.4	8.2	8.2	8.2	8.3	8.1	8.2	8.0	7.9	8.0
16	8.5	8.3	8.4	8.3	8.2	8.2	8.4	8.2	8.2	8.1	8.0	8.1
17	8.4	8.3	8.4	8.3	8.2	8.2	8.4	8.2	8.2	8.1	8.1	8.1
18	8.5	8.3	8.4	8.3	8.2	8.2	8.2	8.0	8.2	8.2	8.1	8.1
19	8.4	8.2	8.3	8.3	8.2	8.3	8.1	8.0	8.0	8.3	8.1	8.2
20	8.4	8.3	8.3	8.3	8.2	8.3	8.2	8.0	8.1	8.3	8.1	8.2
21	8.4	8.3	8.3	8.3	8.2	8.3	8.2	8.0	8.1	8.2	8.1	8.2
22	8.5	8.2	8.3	8.3	8.2	8.3	8.1	8.0	8.1	8.2	8.1	8.1
23	8.3	8.0	8.3	8.4	8.3	8.3	8.3	8.0	8.1	8.2	8.1	8.1
24	8.2	8.0	8.1	8.3	8.3	8.3	8.3	8.1	8.1	8.2	8.0	8.1
25	8.4	8.1	8.2	8.4	8.3	8.3	8.4	8.1	8.1	8.2	8.0	8.1
26	8.6	8.3	8.4	8.3	8.3	8.3	8.3	8.1	8.1	8.2	8.1	8.2
27	8.5	8.3	8.4	8.4	8.3	8.3	8.3	8.1	8.1	8.2	8.1	8.1
28	8.4	8.3	8.3	8.4	8.3	8.3	8.3	8.1	8.2	8.2	8.0	8.1
29	8.3	8.0	8.2	8.4	8.3	8.3	8.3	8.1	8.2	8.1	7.7	8.0
30	8.2	8.0	8.1	8.4	8.3	8.3	8.3	8.1	8.2	8.1	8.0	8.1
31	8.1	8.0	8.1	---	---	---	8.3	8.1	8.2	8.0	7.9	8.0
Max	8.6	8.3	8.4	8.4	8.3	8.3	8.5	8.3	8.3	8.4	8.2	8.2
Min	8.1	8.0	8.1	8.1	8.0	8.1	8.0	8.0	8.0	8.0	7.7	7.9

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

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

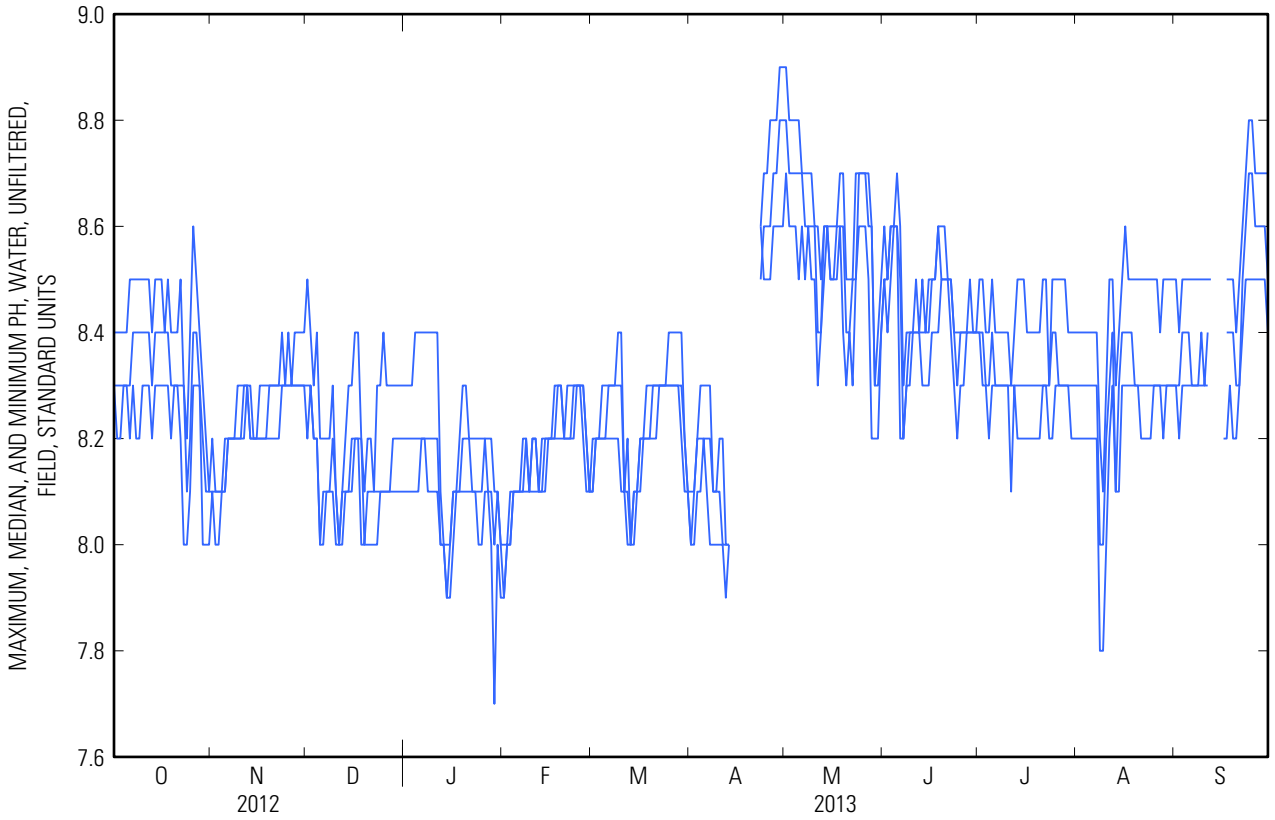
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		February			March			April			May	
1	8.0	7.9	7.9	8.2	8.1	8.1	8.1	8.0	8.0	8.9	8.7	8.8
2	8.0	8.0	8.0	8.2	8.2	8.2	8.1	8.0	8.1	8.8	8.6	8.7
3	8.1	8.0	8.0	8.2	8.2	8.2	8.2	8.1	8.2	8.8	8.6	8.7
4	8.1	8.1	8.1	8.3	8.2	8.2	8.3	8.1	8.2	8.8	8.6	8.7
5	8.1	8.1	8.1	8.3	8.2	8.2	8.3	8.2	8.2	8.8	8.5	8.7
6	8.1	8.1	8.1	8.3	8.2	8.3	8.3	8.1	8.2	8.7	8.6	8.7
7	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.0	8.2	8.7	8.5	8.6
8	8.2	8.1	8.2	8.3	8.2	8.3	8.1	8.0	8.1	8.7	8.6	8.6
9	8.1	8.1	8.1	8.4	8.2	8.3	8.1	8.0	8.1	8.7	8.5	8.6
10	8.2	8.1	8.2	8.4	8.1	8.3	8.2	8.0	8.1	8.6	8.5	8.6
11	8.2	8.1	8.2	8.1	8.1	8.1	8.2	8.0	8.0	8.6	8.3	8.4
12	8.1	8.1	8.1	8.2	8.0	8.1	8.0	7.9	8.0	8.5	8.4	8.4
13	8.2	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.6	8.5	8.6
14	8.2	8.1	8.2	8.1	8.0	8.1	---	---	---	8.6	8.6	8.6
15	8.2	8.2	8.2	8.1	8.1	8.1	---	---	---	8.6	8.5	8.5
16	8.2	8.2	8.2	8.2	8.1	8.2	---	---	---	8.6	8.5	8.5
17	8.3	8.2	8.2	8.2	8.2	8.2	---	---	---	8.6	8.5	8.6
18	8.3	8.2	8.3	8.3	8.2	8.2	---	---	---	8.7	8.6	8.6
19	8.3	8.2	8.3	8.3	8.2	8.2	---	---	---	8.7	8.4	8.6
20	8.2	8.2	8.2	8.3	8.2	8.3	---	---	---	8.5	8.3	8.4
21	8.3	8.2	8.2	8.3	8.2	8.3	---	---	---	8.5	8.4	8.4
22	8.3	8.2	8.2	8.3	8.3	8.3	---	---	---	8.5	8.3	8.5
23	8.3	8.2	8.3	8.3	8.3	8.3	8.6	8.6	8.5	8.7	8.5	8.5
24	8.3	8.3	8.3	8.3	8.3	8.3	8.7	8.5	8.6	8.7	8.6	8.7
25	8.3	8.3	8.3	8.4	8.3	8.3	8.7	8.5	8.6	8.7	8.6	8.7
26	8.3	8.2	8.3	8.4	8.3	8.3	8.8	8.5	8.6	8.7	8.6	8.7
27	8.2	8.1	8.2	8.4	8.3	8.3	8.8	8.6	8.7	8.7	8.5	8.6
28	8.1	8.1	8.1	8.4	8.3	8.3	8.8	8.6	8.7	8.6	8.2	8.6
29	---	---	---	8.4	8.2	8.3	8.9	8.6	8.8	8.3	8.2	8.3
30	---	---	---	8.2	8.1	8.2	8.9	8.6	8.8	8.4	8.2	8.3
31	---	---	---	8.1	8.1	8.1	---	---	---	8.5	8.4	8.4
Max	8.3	8.3	8.3	8.4	8.3	8.3	---	---	---	8.9	8.7	8.8
Min	8.0	7.9	7.9	8.0	8.0	8.0	---	---	---	8.3	8.2	8.3

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	8.6	8.5	8.5	8.5	8.4	8.4	8.4	8.2	8.3	8.5	8.3	8.3
2	8.5	8.4	8.5	8.5	8.3	8.4	8.4	8.2	8.3	8.4	8.2	8.3
3	8.6	8.5	8.6	8.4	8.3	8.3	8.4	8.2	8.3	8.5	8.3	8.4
4	8.6	8.6	8.6	8.4	8.2	8.3	8.4	8.2	8.3	8.5	8.3	8.4
5	8.7	8.6	8.6	8.5	8.3	8.4	8.4	8.2	8.3	8.5	8.3	8.4
6	8.6	8.2	8.5	8.4	8.3	8.3	8.4	8.2	8.3	8.5	8.3	8.3
7	8.3	8.2	8.2	8.4	8.3	8.3	8.4	8.2	8.3	8.5	8.3	8.3
8	8.4	8.3	8.3	8.4	8.3	8.3	8.2	7.8	8.0	8.5	8.3	8.3
9	8.4	8.3	8.4	8.4	8.3	8.3	8.1	7.8	8.0	8.5	8.3	8.4
10	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.0	8.2	8.5	8.3	8.3
11	8.5	8.4	8.4	8.3	8.1	8.3	8.5	8.2	8.3	8.5	8.3	8.4
12	8.4	8.4	8.4	8.4	8.3	8.3	8.5	8.3	8.4	8.5	---	---
13	8.5	8.3	8.4	8.5	8.2	8.3	8.3	8.1	8.1	---	---	---
14	8.4	8.3	8.4	8.5	8.2	8.3	8.4	8.1	8.3	---	---	---
15	8.5	8.3	8.4	8.5	8.2	8.3	8.5	8.3	8.4	---	---	---
16	8.5	8.4	8.5	8.4	8.2	8.3	8.6	8.3	8.4	---	8.2	---
17	8.5	8.4	8.5	8.4	8.2	8.3	8.5	8.3	8.4	8.5	8.2	8.4
18	8.6	8.4	8.6	8.4	8.2	8.3	8.5	8.3	8.4	8.5	8.3	8.4
19	8.6	8.5	8.5	8.4	8.2	8.3	8.5	8.3	8.3	8.5	8.2	8.4
20	8.6	8.5	8.5	8.4	8.2	8.3	8.5	8.3	8.3	8.4	8.2	8.3
21	8.5	8.5	8.5	8.5	8.3	8.3	8.5	8.2	8.3	8.5	8.3	8.3
22	8.5	8.4	8.5	8.5	8.3	8.3	8.5	8.2	8.3	8.6	8.4	8.5
23	8.4	8.3	8.4	8.3	8.2	8.3	8.5	8.2	8.3	8.7	8.5	8.6
24	8.4	8.2	8.3	8.5	8.2	8.4	8.5	8.2	8.3	8.8	8.5	8.7
25	8.4	8.3	8.4	8.5	8.3	8.4	8.5	8.3	8.3	8.8	8.5	8.7
26	8.4	8.3	8.4	8.5	8.3	8.3	8.5	8.3	8.3	8.7	8.5	8.6
27	8.4	8.4	8.4	8.5	8.3	8.3	8.4	8.3	8.3	8.7	8.5	8.6
28	8.5	8.4	8.4	8.5	8.3	8.3	8.5	8.2	8.3	8.7	8.5	8.6
29	8.4	8.4	8.4	8.4	8.3	8.3	8.5	8.3	8.3	8.7	8.5	8.6
30	8.4	8.4	8.4	8.4	8.2	8.3	8.5	8.3	8.3	8.7	8.4	8.5
31	---	---	---	8.4	8.2	8.3	8.5	8.3	8.3	---	---	---
Max	8.7	8.6	8.6	8.5	8.4	8.4	8.6	8.3	8.4	---	---	---
Min	8.3	8.2	8.2	8.3	8.1	8.3	8.1	7.8	8.0	---	---	---

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued



04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	10.6	9.5	10.0	11.1	11.0	11.0	13.8	12.5	13.2	14.4	13.9	14.1
2	10.2	9.3	9.8	11.5	11.1	11.3	12.8	11.8	12.3	14.5	13.8	14.1
3	9.9	8.9	9.3	11.8	11.5	11.7	12.0	11.4	11.7	14.6	14.0	14.2
4	9.9	8.7	9.2	11.9	11.8	11.8	11.7	10.8	11.2	14.6	13.9	14.1
5	9.8	8.8	9.2	12.2	11.9	12.0	12.5	11.0	11.7	14.6	13.9	14.2
6	10.0	8.9	9.6	12.3	11.9	12.2	13.2	12.5	12.9	14.3	13.6	13.9
7	10.6	10.0	10.3	12.8	12.3	12.5	12.9	12.2	12.6	14.4	13.7	13.9
8	11.2	10.4	10.7	13.1	12.5	12.7	12.3	11.9	12.1	14.7	13.8	14.2
9	11.5	10.2	10.8	12.8	12.1	12.5	12.6	12.1	12.3	14.7	13.9	14.1
10	11.0	10.5	10.7	12.2	11.5	12.0	12.1	11.8	11.9	14.6	13.6	14.0
11	11.6	10.6	11.0	11.5	11.0	11.3	12.8	12.0	12.5	13.8	12.9	13.4
12	11.3	10.7	11.0	11.1	10.4	10.8	13.3	12.8	13.1	13.3	12.8	13.0
13	12.2	11.0	11.6	12.1	10.8	11.6	13.8	13.3	13.5	12.9	12.0	12.5
14	11.0	9.2	10.2	12.3	12.0	12.2	13.7	13.1	13.4	13.2	12.0	12.6
15	10.1	9.2	9.7	12.8	12.3	12.5	13.8	12.7	13.3	13.7	13.2	13.5
16	10.8	10.0	10.4	13.1	12.5	12.8	12.8	12.0	12.4	13.6	13.3	13.5
17	11.4	10.2	10.8	13.3	12.7	12.9	12.3	11.7	11.9	13.9	13.4	13.6
18	10.8	9.8	10.3	13.3	12.7	12.9	12.2	11.7	11.9	14.5	13.9	14.3
19	10.7	9.9	10.2	13.3	12.5	12.8	12.5	12.2	12.4	14.2	13.2	13.9
20	10.4	9.9	10.2	12.8	12.2	12.5	12.8	12.3	12.6	14.2	13.1	13.6
21	10.8	10.2	10.4	12.9	12.2	12.5	13.0	12.3	12.4	14.3	14.1	14.2
22	11.3	10.2	10.7	13.1	12.4	12.7	13.6	13.0	13.4	14.3	14.1	14.2
23	10.4	10.0	10.2	12.5	12.1	12.3	13.9	13.3	13.5	14.3	13.9	14.1
24	10.2	9.9	10.1	13.2	12.3	12.8	13.9	13.0	13.4	14.4	13.9	14.1
25	10.1	9.3	9.7	13.5	13.1	13.2	13.8	13.1	13.3	14.4	14.0	14.2
26	10.0	9.4	9.6	13.6	13.1	13.2	14.1	13.3	13.8	14.4	14.0	14.2
27	10.4	9.6	10.0	13.6	13.0	13.2	14.3	13.8	14.0	14.5	14.2	14.3
28	10.9	10.4	10.7	13.7	13.0	13.3	14.4	14.0	14.1	14.2	13.9	14.1
29	11.0	10.8	11.0	13.9	13.1	13.4	14.2	13.9	14.0	14.1	13.9	14.0
30	10.8	10.6	10.7	13.7	13.0	13.3	14.5	13.9	14.1	13.9	12.0	12.9
31	11.0	10.7	10.9	---	---	---	14.4	13.9	14.1	14.0	12.0	12.9
Month	12.2	8.7	10.3	13.9	10.4	12.4	14.5	10.8	12.9	14.7	12.0	13.8

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

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

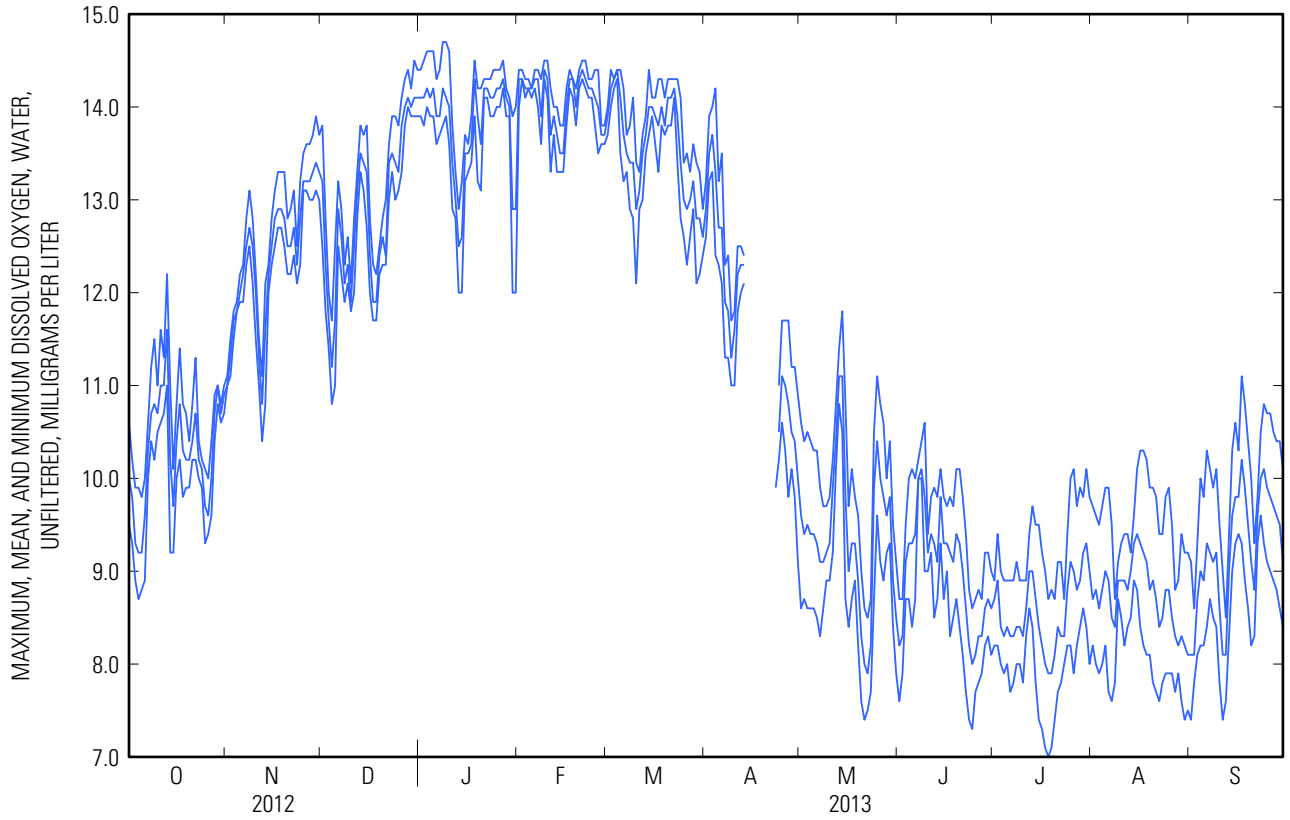
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	14.4	14.0	14.3	14.0	13.7	13.9	13.2	12.6	12.9	10.6	8.6	9.6
2	14.4	14.3	14.3	14.4	14.0	14.2	13.9	13.2	13.5	10.4	8.7	9.4
3	14.3	14.1	14.2	14.3	14.2	14.3	14.0	13.3	13.7	10.5	8.6	9.5
4	14.3	14.2	14.2	14.4	14.3	14.4	14.2	12.4	13.3	10.4	8.6	9.4
5	14.2	14.1	14.2	14.4	13.5	14.1	13.2	12.3	12.7	10.3	8.6	9.4
6	14.4	14.2	14.3	14.2	13.2	13.7	13.5	12.1	12.7	10.3	8.5	9.3
7	14.4	14.0	14.3	13.7	13.3	13.5	12.3	11.3	11.9	9.9	8.3	9.1
8	14.3	13.6	13.9	13.8	12.9	13.4	12.4	11.3	11.8	9.7	8.6	9.1
9	14.5	14.3	14.4	14.1	12.8	13.4	11.7	11.0	11.3	9.7	8.9	9.2
10	14.5	14.1	14.3	13.4	12.1	12.9	11.8	11.0	11.6	9.8	8.9	9.3
11	14.2	13.3	13.7	13.3	12.9	13.1	12.5	11.8	12.2	10.2	9.2	9.9
12	14.0	13.7	13.9	13.7	13.0	13.5	12.5	12.0	12.3	10.8	10.1	10.4
13	14.0	13.3	13.7	13.9	13.5	13.7	12.4	12.1	12.3	11.4	10.8	11.1
14	13.8	13.3	13.5	14.4	13.7	14.0	---	---	---	11.8	10.5	11.1
15	13.8	13.3	13.5	14.1	13.9	14.0	---	---	---	10.8	8.7	9.8
16	14.2	13.8	14.0	14.1	13.6	13.9	---	---	---	9.7	8.4	9.0
17	14.4	14.2	14.3	14.3	13.3	13.8	---	---	---	10.1	8.7	9.3
18	14.3	14.1	14.3	14.3	13.8	14.0	---	---	---	9.8	8.9	9.3
19	14.2	13.8	14.0	14.1	13.7	13.8	---	---	---	9.6	8.2	8.9
20	14.4	14.2	14.3	14.3	13.8	14.1	---	---	---	9.0	7.6	8.3
21	14.5	14.3	14.4	14.3	13.8	14.1	---	---	---	8.6	7.4	8.0
22	14.5	14.2	14.3	14.3	14.1	14.2	---	---	---	8.5	7.5	7.9
23	14.3	14.1	14.2	14.3	13.4	13.9	---	9.9	---	8.7	7.7	8.2
24	14.3	14.1	14.2	14.1	12.8	13.4	11.0	10.2	10.5	10.5	8.7	9.9
25	14.4	13.8	14.1	13.4	12.6	13.0	11.7	10.6	11.1	11.1	9.6	10.4
26	14.4	13.5	14.0	13.5	12.3	12.9	11.7	10.3	11.0	10.8	9.1	10.0
27	13.8	13.6	13.7	13.3	12.6	13.0	11.7	9.8	10.8	10.6	8.9	9.8
28	13.8	13.6	13.7	13.6	12.9	13.2	11.2	10.1	10.5	10.0	9.2	9.6
29	---	---	---	13.4	12.1	12.8	11.2	9.8	10.4	10.4	9.3	9.8
30	---	---	---	13.3	12.2	12.8	10.9	9.1	10.0	9.5	8.4	8.9
31	---	---	---	12.9	12.4	12.6	---	---	---	9.1	7.9	8.5
Month	14.5	13.3	14.1	14.4	12.1	13.6	---	---	---	11.8	7.4	9.4

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—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	8.7	7.6	8.2	8.9	8.2	8.7	9.7	8.2	8.7	9.1	7.4	8.1
2	8.7	7.9	8.3	9.4	8.2	8.9	9.6	8.0	8.8	8.6	7.8	8.1
3	9.5	8.7	9.1	9.0	8.0	8.4	9.5	7.9	8.6	9.3	8.1	8.7
4	10.0	8.7	9.3	8.9	7.9	8.3	9.7	8.0	8.8	10.0	8.2	9.0
5	10.1	8.4	9.3	8.9	8.0	8.4	9.9	8.2	9.0	9.8	8.2	8.9
6	10.0	8.7	9.4	8.9	7.7	8.3	9.9	7.7	8.9	10.3	8.4	9.3
7	10.2	10.0	10.0	8.9	7.8	8.3	9.5	7.6	8.5	10.1	8.7	9.2
8	10.4	10.0	10.1	9.1	8.0	8.4	8.7	7.8	8.4	9.9	8.5	9.1
9	10.6	9.0	9.8	8.9	8.0	8.4	9.1	8.7	8.9	10.1	8.4	9.2
10	9.4	9.0	9.2	8.9	7.8	8.3	9.3	8.5	8.9	9.5	7.8	8.6
11	9.8	9.2	9.4	8.9	8.3	8.6	9.4	8.2	8.9	9.0	7.4	8.1
12	9.9	8.5	9.3	9.4	8.6	9.0	9.4	8.4	8.8	8.5	7.6	8.1
13	9.8	8.7	9.1	9.7	8.4	9.0	9.2	8.5	9.0	9.4	8.3	9.0
14	10.1	9.3	9.8	9.5	7.8	8.7	9.6	8.9	9.3	10.3	9.0	9.6
15	9.8	8.7	9.3	9.5	7.4	8.4	10.1	8.8	9.4	10.6	9.3	9.8
16	9.7	9.0	9.3	9.2	7.3	8.2	10.3	8.4	9.3	10.3	9.4	9.8
17	9.8	8.3	9.2	9.0	7.1	8.0	10.3	8.2	9.2	11.1	9.3	10.2
18	9.7	8.5	9.1	8.7	7.0	7.9	10.2	8.1	9.1	10.8	8.9	9.9
19	10.1	8.7	9.4	8.8	7.1	7.9	9.9	8.1	8.8	10.4	8.6	9.5
20	10.1	8.4	9.3	8.7	7.4	8.1	9.9	7.8	8.9	10.0	8.2	9.1
21	9.8	8.1	9.0	9.1	7.7	8.4	9.8	7.7	8.7	9.3	8.3	8.8
22	9.4	7.7	8.6	9.1	7.8	8.3	9.4	7.6	8.4	9.8	9.3	9.6
23	8.8	7.4	8.2	8.7	8.0	8.3	9.4	7.8	8.5	10.5	9.6	10
24	8.6	7.3	8.0	9.4	8.2	8.8	9.8	7.9	8.8	10.8	9.3	10.1
25	8.7	7.7	8.1	10.0	8.2	9.1	9.9	7.9	8.8	10.7	9.1	9.9
26	8.8	7.8	8.3	10.1	7.9	9.0	9.5	7.9	8.5	10.7	9.0	9.8
27	8.7	7.9	8.3	9.7	8.2	8.8	8.8	7.7	8.3	10.5	8.9	9.7
28	9.2	8.2	8.6	9.9	8.4	8.9	8.9	7.9	8.2	10.4	8.8	9.6
29	9.2	8.3	8.7	9.8	8.6	9.2	9.4	7.6	8.3	10.4	8.6	9.5
30	9.0	8.1	8.6	10.1	8.4	9.3	9.2	7.4	8.2	10.1	8.4	9.1
31	---	---	---	9.8	8.0	9.0	9.2	7.5	8.1	---	---	---
Month	10.6	7.3	9.0	10.1	7.0	8.6	10.3	7.4	8.7	11.1	7.4	9.2

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued



04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
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	20	7	8	139	80	100	8	5	6	20	10	20
2	10	7	8	168	70	102	50	6	10	20	10	20
3	20	9	10	80	40	50	140	20	80	20	10	20
4	10	8	9	50	30	30	147	20	40	20	10	10
5	20	7	9	30	20	30	797	100	344	20	10	10
6	100	10	40	30	20	20	172	30	60	20	10	10
7	118	20	50	20	10	20	40	20	30	20	10	10
8	30	20	20	20	10	10	50	20	30	20	10	10
9	20	10	10	20	10	10	50	30	40	30	20	20
10	10	8	9	20	10	10	336	30	156	40	20	30
11	10	8	9	20	10	10	408	80	198	388	20	60
12	10	7	9	30	10	20	122	30	60	608	255	384
13	10	7	9	142	10	80	60	20	30	627	205	316
14	10	7	8	70	20	40	30	20	20	310	90	170
15	10	9	10	20	10	20	30	10	20	101	40	60
16	10	8	10	20	10	10	30	10	20	50	20	30
17	10	7	9	10	9	10	30	20	20	30	20	20
18	20	7	9	10	9	10	327	20	100	30	20	20
19	120	20	60	10	8	9	289	50	135	20	10	10
20	40	20	30	10	8	9	116	20	50	30	10	20
21	50	20	30	10	8	9	155	20	60	20	20	20
22	30	10	20	10	7	8	90	40	60	30	20	30
23	961	10	146	10	6	7	70	20	40	30	20	20
24	884	90	295	10	6	8	60	20	20	20	10	10
25	100	40	60	9	6	8	40	20	20	20	10	10
26	40	20	30	7	6	6	50	10	20	20	9	10
27	122	20	50	8	6	7	50	20	30	20	10	10
28	139	50	90	10	5	6	50	20	30	40	10	20
29	1,080	90	275	7	5	6	50	20	30	1,000	40	552
30	1,080	330	835	10	5	7	30	20	30	1,010	411	689
31	345	90	178	---	---	---	40	10	20	576	180	399
Month	1,080	7	80	168	5	20	797	5	60	1,010	9	100

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

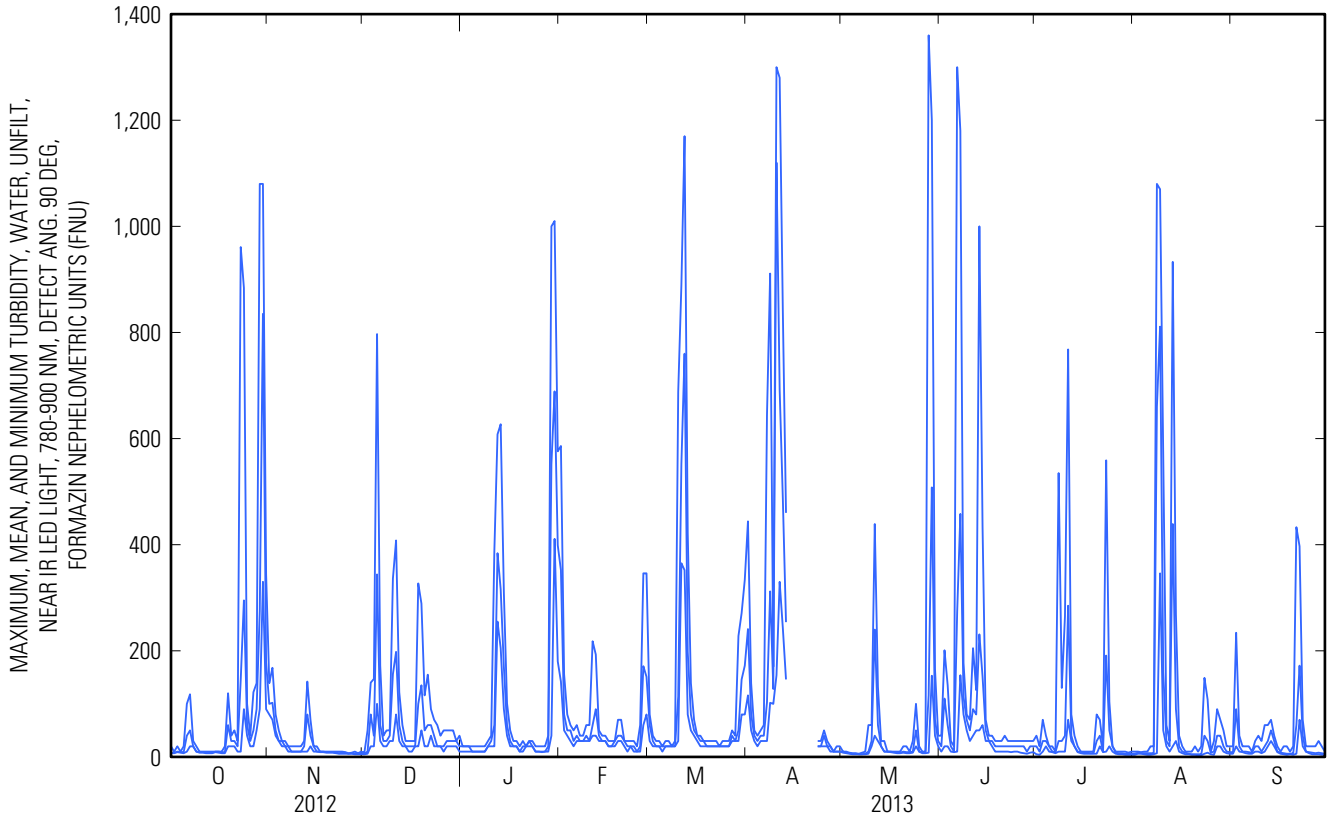
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	586	142	352	80	30	60	444	116	241	10	8	10
2	156	50	80	40	20	30	139	50	80	10	7	8
3	80	40	50	30	20	20	50	30	40	8	6	7
4	60	30	50	30	20	20	40	20	30	7	5	6
5	50	20	30	20	10	20	50	30	40	7	5	6
6	60	30	40	30	20	20	60	30	40	6	5	5
7	40	30	30	30	20	20	644	30	103	8	5	5
8	40	30	30	20	20	20	911	102	312	10	5	6
9	60	30	40	30	20	20	170	100	128	60	6	10
10	60	30	30	688	30	114	1,300	154	1,120	60	20	30
11	218	40	60	889	365	552	1,280	330	692	439	40	240
12	193	40	90	1,170	352	760	840	243	487	132	30	60
13	50	30	40	422	80	198	460	146	254	30	20	20
14	40	30	30	139	50	80	---	---	---	30	10	10
15	40	30	30	70	40	50	---	---	---	10	10	10
16	30	20	20	40	30	40	---	---	---	10	9	10
17	30	20	20	40	20	30	---	---	---	10	8	9
18	30	20	30	30	20	30	---	---	---	10	7	9
19	70	30	40	30	20	20	---	---	---	10	7	8
20	70	30	40	30	20	20	---	---	---	20	8	10
21	30	20	30	30	20	20	---	---	---	20	7	9
22	30	10	20	30	20	20	---	---	---	10	7	9
23	30	20	20	20	20	20	30	20	20	30	8	10
24	30	10	20	30	20	20	30	20	20	100	20	50
25	20	10	10	30	20	20	50	20	40	20	10	10
26	60	10	20	30	20	20	30	20	20	10	7	9
27	346	60	171	50	30	40	20	10	20	10	7	8
28	346	80	151	40	30	30	10	10	10	1,360	8	116
29	---	---	---	228	30	50	20	10	10	1,200	153	508
30	---	---	---	271	80	146	20	10	10	166	40	70
31	---	---	---	334	80	172	---	---	---	40	20	30
Month	586	10	60	1,170	10	90	---	---	---	1,360	5	40

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
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	40	10	20	40	5	20	10	4	6	20	6	9
2	201	20	110	20	4	10	10	6	8	234	20	90
3	135	20	60	70	10	30	9	6	7	40	10	20
4	30	10	20	40	20	30	10	5	7	20	9	10
5	20	9	10	20	10	20	10	4	7	20	7	10
6	1,300	10	274	20	9	10	20	4	7	20	6	9
7	1,180	154	458	10	7	9	20	5	7	10	6	8
8	177	80	113	535	10	30	1,080	7	660	30	10	20
9	80	50	70	130	10	30	1,070	346	811	40	10	20
10	70	30	50	265	10	40	566	50	160	30	7	10
11	205	40	90	768	70	285	60	20	30	60	10	20
12	126	50	80	80	30	40	30	10	20	60	20	30
13	1,000	50	231	40	20	20	933	20	439	70	30	50
14	434	60	152	20	9	10	269	30	90	40	20	30
15	70	30	50	10	7	9	40	10	20	20	9	10
16	40	30	30	10	6	8	20	7	10	10	6	8
17	40	20	30	10	6	8	10	5	8	20	5	7
18	30	10	20	10	6	7	10	5	6	20	4	6
19	30	10	20	10	6	7	10	4	5	10	5	6
20	30	10	20	80	6	30	20	4	5	20	4	7
21	40	10	20	70	20	40	10	3	5	433	6	60
22	30	10	20	20	9	10	20	3	5	397	70	172
23	30	9	20	559	10	191	149	6	40	70	20	40
24	30	10	20	104	20	50	108	8	30	20	10	10
25	30	10	20	20	10	20	10	5	8	20	7	9
26	30	8	20	10	6	8	30	4	10	20	5	8
27	30	7	20	10	5	7	90	20	40	20	5	7
28	30	6	10	10	5	7	70	20	40	30	5	8
29	30	8	20	10	4	6	50	10	20	20	4	7
30	30	9	20	8	4	6	20	7	10	10	4	6
31	---	---	---	10	4	6	20	6	9	---	---	---
Month	1,300	6	70	768	4	30	1,080	3	80	433	4	20

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued



04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 4

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; >, greater than; E, estimated]

Begin date	Begin time	Discharge, instantaneous, ft³/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)	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
10-01-2012	0930	110	10.5	8.3	464	12.7	8.5	57.4	11.6
10-23-2012	1815	679	10.4	8.0	423	11.6	130	--	--
10-23-2012	2315	1,600	10.4	7.9	362	11.8	990	--	--
10-25-2012	1240	570	10.2	8.1	346	14.8	70	47.0	7.71
10-28-2012	0245	651	10.8	8.1	388	10.4	80	--	--
10-29-2012	1700	1,620	11.3	7.9	296	8.3	240	--	--
10-29-2012	2045	3,030	11.2	7.8	272	8.0	650	--	--
10-29-2012	2215	3,620	11.2	7.7	256	8.0	1,200	--	--
10-30-2012	0330	9,790	11.1	7.8	193	8.1	> 1,250	--	--
10-31-2012	1320	1,890	11.2	7.8	236	8.4	190	32.0	5.28
11-05-2012	1255	583	12.4	7.8	331	5.1	--	45.3	7.25
12-04-2012	0945	460	11.5	8.3	337	8.4	30	44.7	7.50
01-08-2013	1300	379	14.4	8.4	327	.6	14	38.9	6.65
01-11-2013	2300	1,820	13.4	8.1	278	2.8	290	--	--
01-18-2013	1230	637	14.6	8.2	238	.0	20	--	--
01-29-2013	0200	2,000	13.7	8.1	313	.0	210	--	--
01-29-2013	1445	3,640	13.6	7.9	290	.0	440	--	--
02-05-2013	1510	910	13.6	8.1	230	.0	40	41.6	7.08
03-04-2013	1305	679	14.4	8.2	379	.0	--	44.5	7.60
03-10-2013	2000	1,660	12.4	8.2	360	5.5	240	--	--
03-11-2013	0530	3,000	13.2	8.1	270	3.2	420	--	--
03-11-2013	1745	4,950	12.9	8.1	223	3.9	540	--	--
03-12-2013	0145	7,350	13.1	8.1	191	3.3	770	21.8	3.22
03-12-2013	0300	10,300	13.2	8.1	188	3.0	840	--	--
03-12-2013	0545	13,400	13.5	8.2	182	2.5	1,060	--	--
03-13-2013	1120	2,830	13.8	8.0	222	1.5	160	--	--
03-30-2013	2100	1,690	12.4	8.2	327	5.5	100	--	--
04-02-2013	1145	1,570	13.7	8.1	272	2.3	70	29.7	4.76
04-10-2013	0245	5,070	11.2	8.0	216	9.6	1,110	--	--
04-10-2013	0815	11,200	11.7	8.2	189	8.1	> 1,270	--	--
04-10-2013	1915	11,500	11.6	8.1	189	8.3	> 1,260	--	--
04-10-2013	2145	17,600	11.7	8.2	175	8.2	> 1,270	--	--
04-11-2013	0530	8,800	12.0	8.1	170	7.0	1,060	20.9	2.70
04-12-2013	0045	4,130	12.5	8.0	214	4.9	320	--	--
05-06-2013	1200	352	9.8	8.8	415	17.8	5.8	50.3	9.09
05-28-2013	2115	700	9.2	8.7	379	16.1	93	--	--
05-29-2013	0015	2,030	9.5	8.5	308	15.4	790	--	--
05-29-2013	1430	2,090	9.5	8.5	248	16.8	430	--	--
05-30-2013	0630	1,000	9.2	8.5	272	17.0	93	--	--

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 4

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; >, greater than; E, estimated]

Begin date	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos-phate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Suspended sediment concen-tration, mg/L (80154)
10-01-2012	31.6	0.06	27.7	< .010	0.688	0.002	< .004	0.006	13
10-23-2012	25.6	--	--	.011	.362	.003	< .004	.173	309
10-23-2012	24.0	--	--	< .010	.325	.002	< .004	.009	1,770
10-25-2012	21.2	.06	28.7	< .010	.523	.002	< .004	.136	155
10-28-2012	21.6	--	--	< .010	.413	.002	< .004	.125	167
10-29-2012	17.0	--	--	< .010	.366	.002	< .004	.388	602
10-29-2012	14.4	--	--	< .010	.387	.002	< .004	.802	1,160
10-29-2012	13.1	--	--	.025	.396	.002	.004	.83	2,110
10-30-2012	9.25	--	--	.051	.365	.002	.010	1.01	2,860
10-31-2012	13.6	.05	19.7	.026	.552	.003	.012	.256	283
11-05-2012	18.8	< .04	24.7	.013	.773	.002	.008	.031	23
12-04-2012	22.2	.06	23.6	< .010	.577	.002	< .004	.037	43
01-08-2013	26.3	.06	23.9	< .010	.781	.002	< .004	.014	10
01-11-2013	22.4	--	--	.011	.654	.004	< .004	.303	394
01-18-2013	19.9	--	--	< .010	.925	.003	< .004	.024	27
01-29-2013	26.0	--	--	.019	.987	.005	< .004	.184	--
01-29-2013	42.0	--	--	< .010	.658	.006	< .004	.465	--
02-05-2013	24.5	.04	20.8	.012	1.04	.001	.005	.040	49
03-04-2013	33.0	.05	20.7	.013	.976	.003	< .004	.024	23
03-10-2013	32.7	--	--	.022	.759	.004	< .004	.192	351
03-11-2013	25.7	--	--	.014	.578	.003	.005	.543	707
03-11-2013	20.1	--	--	.016	.592	.002	.007	.648	918
03-12-2013	16.4	.05	10.1	.016	.559	.003	.005	.879	1,230
03-12-2013	15.5	--	--	.017	.528	.002	.006	.69	1,440
03-12-2013	16.3	--	--	.024	.525	.002	.009	.88	1,730
03-13-2013	17.6	--	--	.021	.793	.002	.005	.196	312
03-30-2013	30.2	--	--	< .010	.774	.003	< .004	.115	130
04-02-2013	23.0	E .05	13.8	< .010	.776	.002	< .004	.092	94
04-10-2013	13.2	--	--	.027	.632	.004	< .004	.73	--
04-10-2013	14.4	--	--	.038	.571	.005	.006	1.48	3,190
04-10-2013	11.5	--	--	.021	.469	.006	.004	1.11	--
04-10-2013	12.0	--	--	.014	.412	.004	.006	1.24	2,680
04-11-2013	12.1	E .05	8.38	.020	.508	.004	.009	.88	1,660
04-12-2013	16.1	--	--	.015	.651	.003	.005	.276	455
05-06-2013	30.5	.06	23.4	< .010	1.07	.007	< .004	.008	6
05-28-2013	26.7	--	--	.016	.754	.006	< .004	.160	179
05-29-2013	20.2	--	--	< .010	.598	.004	< .004	.47	1,070
05-29-2013	17.5	--	--	.011	.686	.005	< .004	.457	--
05-30-2013	18.4	--	--	< .010	.828	.006	< .004	.114	175

04213500 CATTARAUGUS CREEK AT GOWANDA, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 4

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; >, greater than; E, estimated]

Begin date	Begin time	Discharge, instantaneous, ft³/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)	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
06-04-2013	1320	388	9.4	8.8	364	19.8	20	47.6	8.21
06-04-2013	1329	--	--	--	--	--	--	< .022	< .011
06-06-2013	2000	7,650	9.7	8.5	197	14.6	--	--	--
07-02-2013	1330	313	9.2	8.5	417	23.8	15	--	--
08-05-2013	1415	134	9.8	8.4	439	24.5	6.0	50.2	10.6
09-10-2013	1230	167	9.7	8.4	428	24.3	11	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 4

[FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data; <, less than; >, greater than; E, estimated]

Begin date	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Suspended sediment concentration, mg/L (80154)
06-04-2013	25.3	.06	18.2	.012	.686	.004	< .004	.017	18
06-04-2013	< .06	< .01	< .09	.011	< .040	< .001	< .004	< .004	32
06-06-2013	16.1	--	--	.012	.614	.003	< .004	1.38	2,350
07-02-2013	29.7	--	--	< .010	.878	.004	< .004	.010	27
08-05-2013	32.4	.06	23.1	< .010	.707	.004	< .004	.007	13
09-10-2013	31.5	--	--	.012	.543	.003	< .004	.018	45