Water-Data Report 2013

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY

Upper Hudson Basin
Hudson-Wappinger Subbasin

LOCATION.--Lat 41°43′18″, long 73°56′28″ referenced to North American Datum of 1927, Dutchess County, NY, Hydrologic Unit 02020008, on left bank at city pumping station, adjacent to Marist College, 0.5 mi north of Poughkeepsie, and 1.3 mi upstream from Mid-Hudson bridge.

DRAINAGE AREA.--11,700 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2012 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Elevations are not corrected for changes in water density. Blanks in tables are the result of only one high or low tide during a day or interruption of record. Telephone elevation telemeter at station.

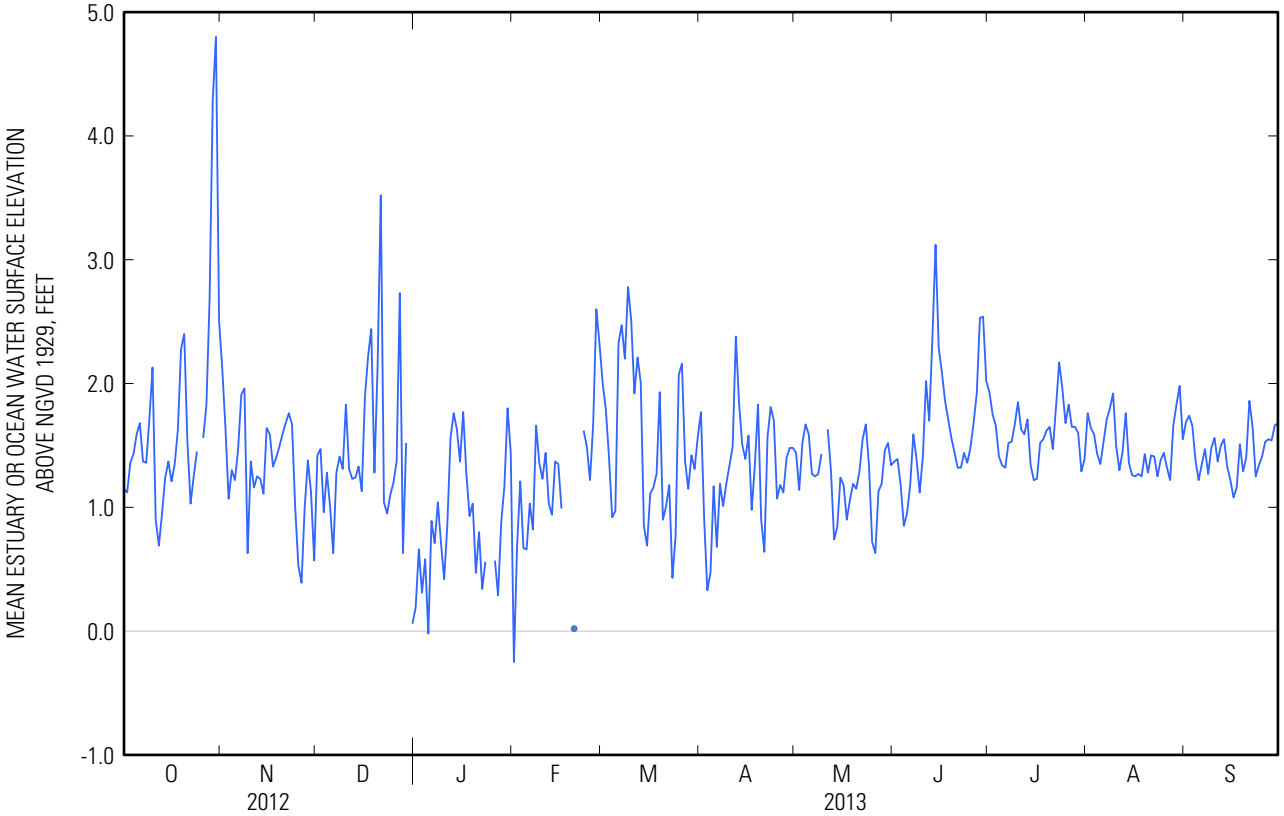
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 9.91 ft, Oct. 30; minimum elevation, -1.80 ft, Jan. 11, but may have been lower during period of missing record.

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.15	2.12	1.42	0.19	-0.25	2.00	1.77	1.44	1.37	1.93	1.76	1.69
2	1.12	1.64	1.47	0.66	0.69	1.79	0.91	1.14	1.39	1.75	1.64	1.74
3	1.36	1.07	0.96	0.31	1.21	1.40	0.33	1.52	1.18	1.66	1.59	1.66
4	1.43	1.30	1.28	0.58	0.67	0.92	0.47	1.67	0.85	1.41	1.43	1.38
5	1.59	1.22	1.01	-0.02	0.66	0.97	1.17	1.59	0.95	1.34	1.35	1.22
6	1.68	1.47	0.63	0.89	1.03	2.33	0.68	1.27	1.18	1.32	1.53	1.35
7	1.37	1.91	1.28	0.71	0.82	2.47	1.19	1.25	1.59	1.52	1.71	1.47
8	1.36	1.96	1.41	1.04	1.66	2.20	1.01	1.27	1.39	1.53	1.80	1.27
9	1.71	0.63	1.31	0.71	1.36	2.78	1.19	1.43	1.12	1.67	1.92	1.48
10	2.13	1.37	1.83	0.42	1.23	2.51	1.34	---	1.41	1.85	1.49	1.56
11	0.90	1.16	1.31	0.86	1.44	1.92	1.49	1.63	2.02	1.63	1.30	1.37
12	0.69	1.25	1.23	1.56	1.03	2.21	2.38	1.30	1.70	1.59	1.45	1.50
13	0.95	1.23	1.24	1.76	0.94	2.01	1.85	0.74	2.36	1.71	1.76	1.55
14	1.24	1.11	1.33	1.63	1.37	0.85	1.51	0.84	3.12	1.34	1.36	1.33
15	1.37	1.64	1.13	1.37	1.35	0.69	1.39	1.24	2.29	1.22	1.26	1.22
16	1.21	1.59	1.89	1.77	0.99	1.11	1.58	1.18	2.09	1.23	1.25	1.08
17	1.35	1.33	2.22	1.27	---	1.16	0.98	0.90	1.86	1.52	1.27	1.16
18	1.63	1.40	2.44	0.93	---	1.27	1.34	1.06	1.71	1.55	1.25	1.51
19	2.28	1.49	1.28	1.03	---	1.93	1.83	1.19	1.56	1.62	1.43	1.29
20	2.40	1.59	2.14	0.47	0.02	0.90	0.90	1.15	1.44	1.65	1.28	1.40
21	1.53	1.68	3.52	0.80	---	1.01	0.64	1.29	1.32	1.47	1.42	1.86
22	1.03	1.76	1.04	0.34	---	1.18	1.57	1.55	1.32	1.81	1.41	1.65
23	1.25	1.67	0.95	0.56	1.62	0.43	1.81	1.67	1.44	2.17	1.25	1.25
24	1.45	1.00	1.10	---	1.49	0.77	1.70	1.34	1.36	1.96	1.38	1.34
25	---	0.53	1.20	---	1.22	2.07	1.07	0.72	1.48	1.68	1.44	1.41
26	1.56	0.39	1.37	0.57	1.67	2.16	1.18	0.63	1.68	1.83	1.32	1.53
27	1.83	1.00	2.73	0.29	2.60	1.37	1.12	1.13	1.92	1.65	1.22	1.55
28	2.68	1.38	0.63	0.88	2.32	1.15	1.40	1.19	2.53	1.65	1.66	1.54
29	4.29	1.12	1.52	1.17	---	1.42	1.48	1.46	2.54	1.60	1.83	1.66
30	4.80	0.57	---	1.80	---	1.31	1.48	1.52	2.02	1.29	1.98	1.68
31	2.50	---	0.06	1.44	---	1.57	---	1.34	---	1.39	1.55	---
Total	---	39.58	---	---	---	47.86	38.76	---	50.19	49.54	46.29	43.70
Mean	---	1.32	---	---	---	1.54	1.29	---	1.67	1.60	1.49	1.46
Max	---	2.12	---	---	---	2.78	2.38	---	3.12	2.17	1.98	1.86
Min	---	0.39	---	---	---	0.43	0.33	---	0.85	1.22	1.22	1.08

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

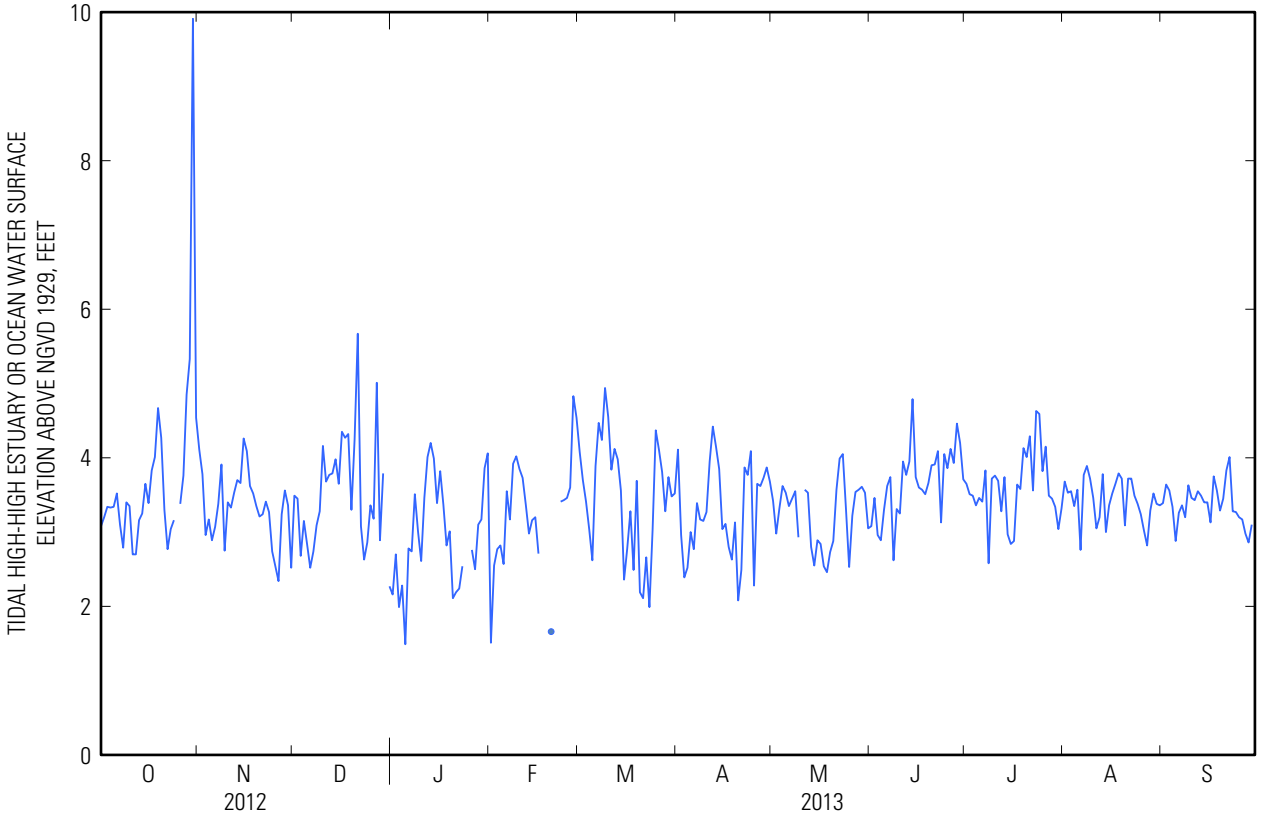


01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY TIDAL HIGH-HIGH VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.08	4.11	3.49	2.16	1.51	4.08	4.11	3.42	3.08	3.65	3.68	3.39
2	3.20	3.78	3.45	2.70	2.55	3.70	2.96	2.98	3.46	3.51	3.53	3.64
3	3.34	2.96	2.68	1.99	2.77	3.41	2.39	3.32	2.96	3.49	3.55	3.56
4	3.33	3.17	3.15	2.28	2.82	3.04	2.52	3.62	2.89	3.36	3.35	3.34
5	3.34	2.89	2.84	1.49	2.57	2.62	3.00	3.53	3.30	3.46	3.57	2.88
6	3.52	3.07	2.52	2.78	3.55	3.89	2.77	3.35	3.62	3.41	2.76	3.26
7	3.10	3.38	2.74	2.74	3.17	4.47	3.39	3.45	3.74	3.83	3.77	3.36
8	2.79	3.91	3.09	3.51	3.92	4.24	3.17	3.55	2.62	2.58	3.89	3.20
9	3.40	2.75	3.28	3.01	4.02	4.94	3.15	2.93	3.31	3.72	3.72	3.63
10	3.35	3.40	4.16	2.61	3.85	4.55	3.27	---	3.25	3.76	3.46	3.46
11	2.70	3.33	3.68	3.46	3.73	3.84	3.95	3.57	3.95	3.69	3.05	3.43
12	2.70	3.53	3.77	4.01	3.37	4.12	4.42	3.53	3.77	3.28	3.20	3.55
13	3.16	3.70	3.79	4.20	2.98	3.98	4.15	2.80	3.95	3.74	3.78	3.49
14	3.25	3.66	3.98	3.99	3.16	3.56	3.85	2.55	4.79	2.97	3.00	3.40
15	3.65	4.26	3.65	3.39	3.20	2.36	3.04	2.89	3.74	2.84	3.36	3.40
16	3.39	4.09	4.35	3.82	2.71	2.78	3.11	2.84	3.60	2.88	3.52	3.13
17	3.83	3.62	4.27	3.37	---	3.28	2.80	2.54	3.57	3.64	3.65	3.75
18	4.01	3.52	4.32	2.82	---	2.49	2.63	2.46	3.51	3.58	3.79	3.56
19	4.67	3.35	3.30	3.01	---	3.69	3.13	2.73	3.66	4.13	3.72	3.29
20	4.27	3.21	4.25	2.11	1.66	2.19	2.08	2.88	3.90	4.01	3.09	3.45
21	3.30	3.24	5.67	2.19	---	2.11	2.49	3.57	3.91	4.29	3.72	3.83
22	2.77	3.41	3.08	2.24	---	2.66	3.87	3.99	4.09	3.56	3.72	4.01
23	3.04	3.27	2.63	2.54	3.41	1.99	3.77	4.05	3.13	4.63	3.49	3.28
24	3.16	2.74	2.86	---	3.43	3.03	4.09	3.31	4.05	4.59	3.38	3.27
25	---	2.54	3.36	---	3.46	4.37	2.28	2.53	3.86	3.82	3.24	3.20
26	3.38	2.34	3.18	2.76	3.60	4.11	3.65	3.22	4.12	4.15	3.02	3.17
27	3.76	3.24	5.01	2.50	4.83	3.81	3.62	3.54	3.93	3.49	2.82	2.98
28	4.85	3.56	2.89	3.10	4.54	3.28	3.73	3.57	4.46	3.45	3.29	2.86
29	5.33	3.36	3.79	3.17	---	3.74	3.87	3.61	4.20	3.34	3.52	3.10
30	9.91	2.52	---	3.86	---	3.48	3.68	3.53	3.71	3.04	3.38	---
31	4.54	---	2.27	4.06	---	3.52	---	3.05	---	3.32	3.36	---
Total	---	99.91	---	---	---	107.33	98.94	---	110.13	111.21	106.38	---
Mean	---	3.33	---	---	---	3.46	3.30	---	3.67	3.59	3.43	---
Max	---	4.26	---	---	---	4.94	4.42	---	4.79	4.63	3.89	---
Min	---	2.34	---	---	---	1.99	2.08	---	2.62	2.58	2.76	---

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

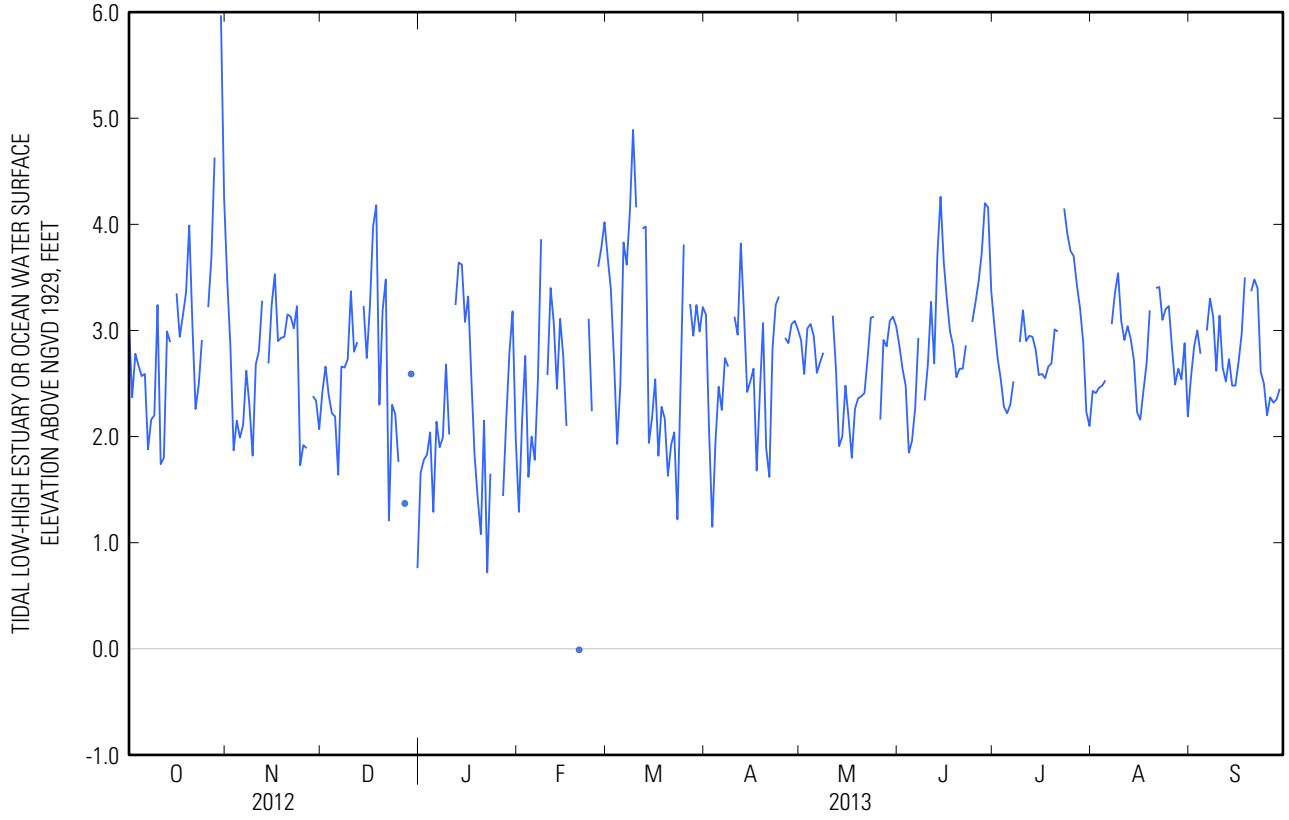


01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY TIDAL LOW-HIGH VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.06	3.47	2.42	1.66	1.29	3.69	3.15	2.91	2.86	3.04	2.43	2.56
2	2.37	2.84	2.66	1.78	2.15	3.39	2.04	2.59	2.64	2.74	2.41	2.85
3	2.78	1.87	2.39	1.83	2.76	2.72	1.15	3.02	2.48	2.54	2.46	3.00
4	2.67	2.15	2.22	2.04	1.62	1.93	1.95	3.06	1.85	2.28	2.48	2.78
5	2.57	1.99	2.19	1.29	2.00	2.49	2.47	2.95	1.96	2.22	2.53	---
6	2.59	2.11	1.64	2.14	1.78	3.83	2.25	2.60	2.27	2.30	---	3.00
7	1.88	2.62	2.66	1.90	2.54	3.62	2.74	2.70	2.93	2.52	3.06	3.30
8	2.16	2.29	2.65	1.99	3.86	4.12	2.66	2.79	---	---	3.35	3.13
9	2.20	1.82	2.73	2.68	---	4.89	---	---	2.34	2.89	3.54	2.62
10	3.24	2.68	3.37	2.02	2.58	4.16	3.13	---	2.68	3.19	3.09	3.14
11	1.74	2.81	2.80	---	3.40	---	2.96	3.14	3.27	2.90	2.91	2.65
12	1.80	3.28	2.89	3.24	3.07	3.96	3.82	2.64	2.69	2.95	3.04	2.52
13	2.99	---	---	3.64	2.45	3.98	3.16	1.91	3.71	2.94	2.92	2.73
14	2.89	2.69	3.23	3.62	3.11	1.94	2.42	2.00	4.26	2.82	2.72	2.48
15	---	3.24	2.74	3.08	2.75	2.18	2.52	2.48	3.65	2.58	2.23	2.48
16	3.35	3.53	3.23	3.32	2.10	2.54	2.64	2.17	3.29	2.59	2.16	2.70
17	2.94	2.90	3.98	2.55	---	1.82	1.68	1.80	2.99	2.55	2.43	2.97
18	3.14	2.93	4.18	1.83	---	2.28	2.41	2.26	2.85	2.66	2.69	3.50
19	3.36	2.94	2.30	1.42	---	2.17	3.07	2.36	2.56	2.69	3.19	---
20	3.99	3.15	3.19	1.08	-0.01	1.63	1.89	2.38	2.64	3.01	---	3.37
21	3.06	3.13	3.48	2.15	---	1.92	1.62	2.41	2.64	2.99	3.40	3.48
22	2.26	3.02	1.21	0.72	---	2.04	2.83	2.74	2.86	---	3.41	3.40
23	2.49	3.23	2.30	1.65	3.11	1.22	3.24	3.12	---	4.15	3.10	2.61
24	2.91	1.73	2.21	---	2.24	2.50	3.32	3.13	3.08	3.91	3.20	2.50
25	---	1.92	1.76	---	---	3.81	---	---	3.26	3.75	3.23	2.20
26	3.22	1.89	---	---	3.60	---	2.93	2.16	3.46	3.70	2.84	2.37
27	3.69	---	1.37	1.44	3.78	3.25	2.88	2.91	3.73	3.43	2.49	2.32
28	4.63	2.38	---	2.16	4.02	2.95	3.06	2.85	4.20	3.21	2.64	2.35
29	---	2.34	2.59	2.79	---	3.24	3.09	3.09	4.16	2.89	2.54	2.45
30	5.97	2.07	---	3.18	---	2.99	3.01	3.13	3.37	2.23	2.88	---
31	4.25	---	0.76	1.98	---	3.22	---	3.04	---	2.10	2.19	---
Total	---	---	---	---	---	---	---	---	---	---	---	---
Mean	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

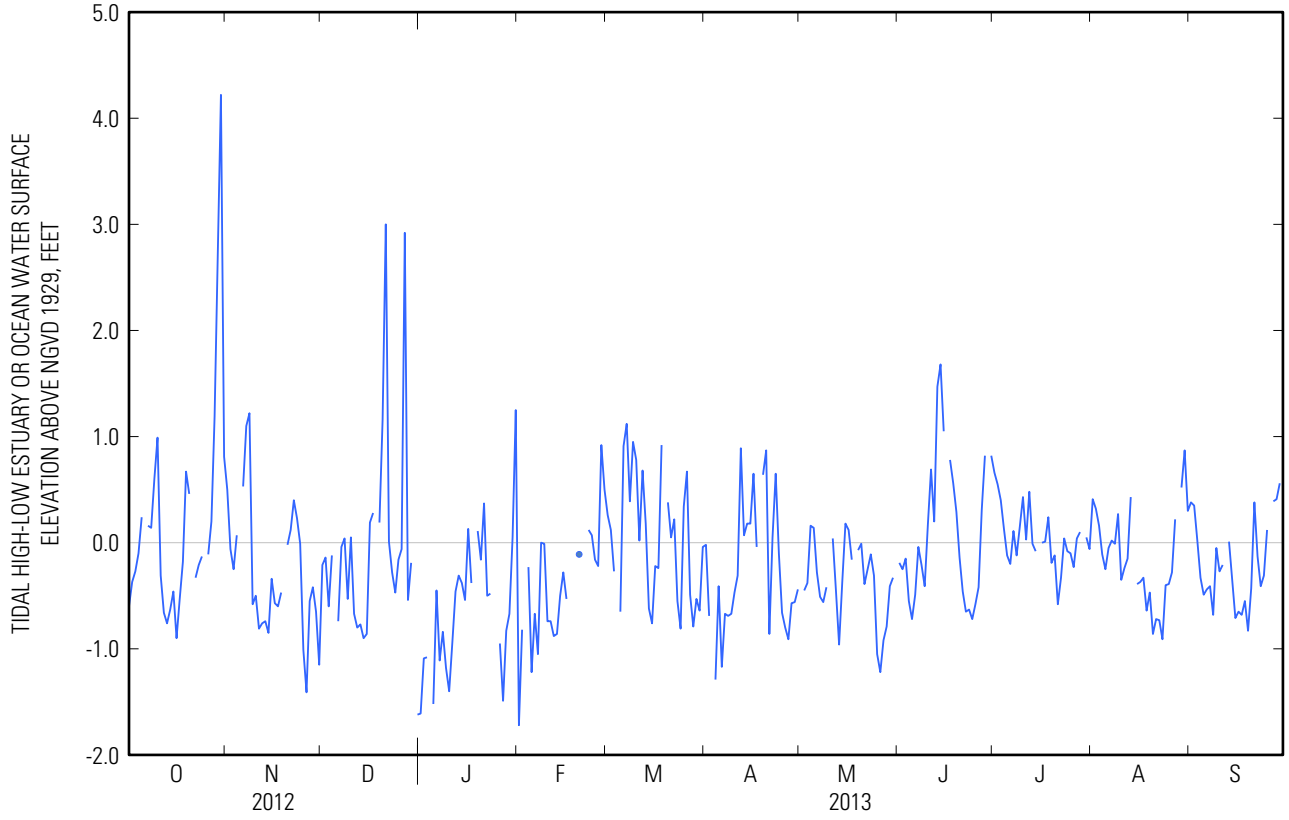


01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY TIDAL HIGH-LOW VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	-0.60	0.50	-0.21	-1.61	-1.72	0.26	-0.02	---	-0.19	0.66	0.41	0.38
2	-0.37	-0.06	-0.14	-1.09	-0.82	0.12	-0.69	-0.45	-0.25	0.55	0.32	0.35
3	-0.27	-0.25	-0.60	-1.08	---	-0.27	---	-0.38	-0.15	0.40	0.16	0.02
4	-0.10	0.07	-0.12	---	-0.23	---	-1.29	0.16	-0.55	0.13	-0.11	-0.33
5	0.24	---	---	-1.52	-1.22	-0.65	-0.41	0.14	-0.72	-0.12	-0.25	-0.49
6	---	0.53	-0.74	-0.45	-0.67	0.91	-1.17	-0.28	-0.49	-0.20	-0.05	-0.44
7	0.16	1.10	-0.04	-1.11	-1.05	1.12	-0.67	-0.51	-0.04	0.11	0.02	-0.41
8	0.14	1.22	0.04	-0.84	0.00	0.39	-0.69	-0.56	-0.21	-0.12	-0.01	-0.68
9	0.60	-0.58	-0.53	-1.18	-0.01	0.95	-0.67	-0.42	-0.41	0.15	0.27	-0.05
10	0.99	-0.50	0.05	-1.40	-0.74	0.78	-0.47	---	0.17	0.43	-0.35	-0.27
11	-0.31	-0.81	-0.67	-0.94	-0.74	0.02	-0.31	0.04	0.69	0.03	-0.24	-0.21
12	-0.66	-0.76	-0.80	-0.46	-0.88	0.68	0.89	-0.45	0.20	0.48	-0.15	---
13	-0.76	-0.74	-0.77	-0.31	-0.86	0.18	0.07	-0.96	1.47	-0.01	0.43	0.01
14	-0.63	-0.85	-0.90	-0.38	-0.50	-0.62	0.18	-0.37	1.68	-0.08	---	-0.35
15	-0.46	-0.34	-0.86	-0.54	-0.28	-0.76	0.18	0.18	1.05	---	-0.39	-0.71
16	-0.90	-0.57	0.19	0.13	-0.53	-0.22	0.65	0.12	---	0.00	-0.37	-0.65
17	-0.53	-0.60	0.28	-0.38	---	-0.24	-0.04	-0.16	0.78	0.01	-0.33	-0.68
18	-0.18	-0.47	---	---	---	0.92	---	---	0.56	0.24	-0.64	-0.55
19	0.67	---	0.19	0.11	---	---	0.64	-0.07	0.29	-0.19	-0.47	-0.83
20	0.46	-0.02	1.16	-0.16	-0.11	0.38	0.87	-0.01	-0.14	-0.12	-0.86	-0.43
21	---	0.12	3.00	0.37	---	0.05	-0.86	-0.39	-0.46	-0.58	-0.72	0.38
22	-0.33	0.40	0.01	-0.50	---	0.22	0.05	-0.25	-0.65	-0.33	-0.73	-0.13
23	-0.21	0.23	-0.28	-0.48	0.12	-0.55	0.65	-0.11	-0.63	0.04	-0.91	-0.41
24	-0.13	-0.01	-0.47	---	0.07	-0.81	-0.10	-0.31	-0.72	-0.08	-0.40	-0.31
25	---	-1.01	-0.16	---	-0.16	0.34	-0.66	-1.05	-0.58	-0.10	-0.39	0.12
26	-0.11	-1.41	-0.06	-0.95	-0.22	0.67	-0.80	-1.22	-0.42	-0.23	-0.28	---
27	0.20	-0.55	2.92	-1.49	0.92	-0.49	-0.91	-0.92	0.31	0.04	0.22	0.39
28	1.19	-0.42	-0.54	-0.83	0.50	-0.79	-0.57	-0.79	0.82	0.10	---	0.41
29	2.71	-0.65	-0.19	-0.67	---	-0.53	-0.56	-0.41	---	---	0.52	0.56
30	4.22	-1.15	---	0.05	---	-0.64	-0.44	-0.33	0.82	0.05	0.87	---
31	0.81	---	-1.62	1.25	---	-0.04	---	---	---	-0.06	0.30	---
Total	---	---	---	---	---	---	---	---	---	---	---	---
Mean	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

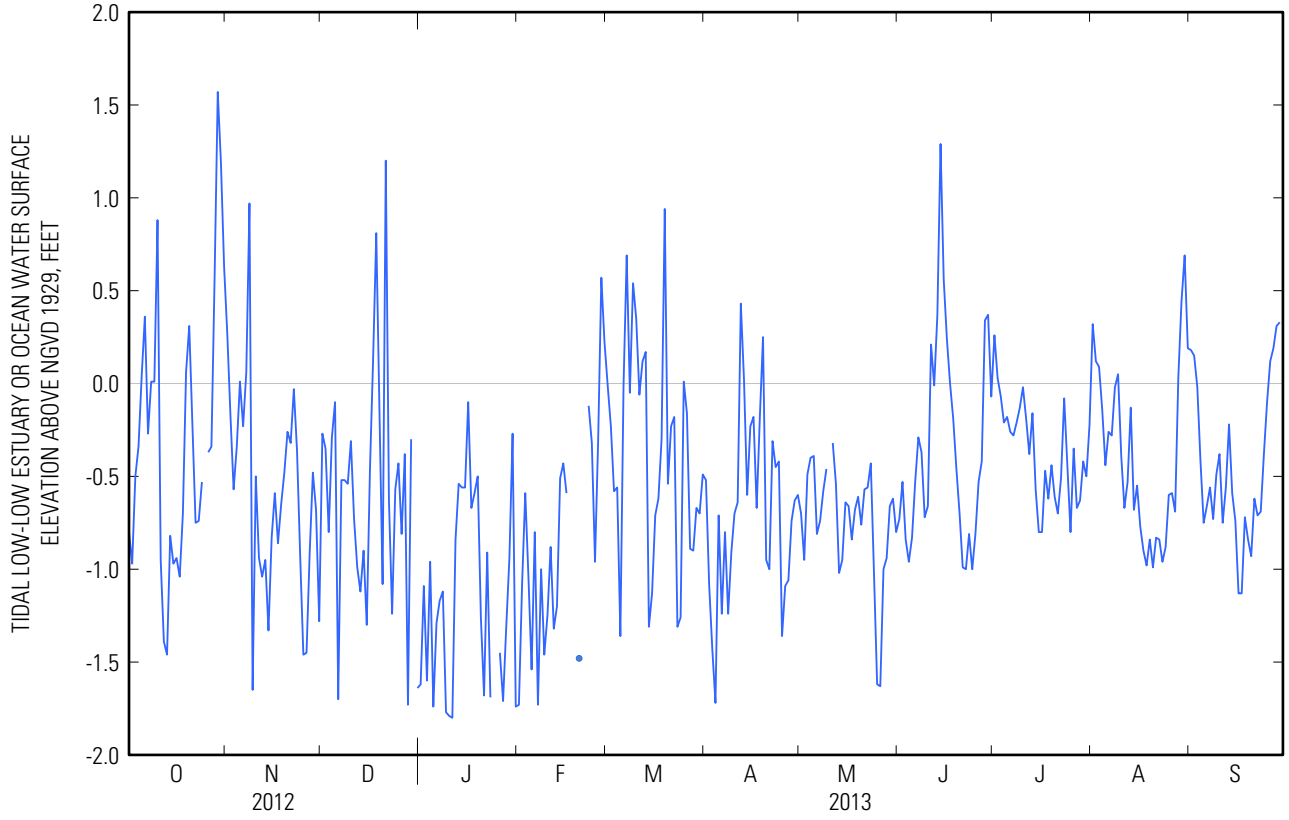


01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

ESTUARY OR OCEAN WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY TIDAL LOW-LOW VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	-0.80	0.27	-0.27	-1.62	-1.73	-0.01	-0.52	-0.70	-0.73	0.26	0.32	0.18
2	-0.97	-0.17	-0.35	-1.09	-1.08	-0.23	-1.08	-0.95	-0.53	0.03	0.12	0.15
3	-0.50	-0.57	-0.80	-1.60	-0.59	-0.58	-1.43	-0.49	-0.84	-0.07	0.09	-0.02
4	-0.34	-0.34	-0.29	-0.96	-1.04	-0.56	-1.72	-0.40	-0.96	-0.21	-0.14	-0.42
5	0.04	0.01	-0.10	-1.74	-1.54	-1.36	-0.71	-0.39	-0.83	-0.18	-0.44	-0.75
6	0.36	-0.23	-1.70	-1.29	-0.80	-0.01	-1.24	-0.81	-0.53	-0.26	-0.26	-0.66
7	-0.27	0.06	-0.52	-1.17	-1.73	0.69	-0.80	-0.74	-0.29	-0.28	-0.28	-0.56
8	0.01	0.97	-0.52	-1.12	-1.00	-0.05	-1.24	-0.58	-0.37	-0.21	-0.02	-0.73
9	0.01	-1.65	-0.54	-1.77	-1.46	0.54	-0.91	-0.46	-0.72	-0.13	0.05	-0.49
10	0.88	-0.50	-0.31	-1.79	-1.25	0.35	-0.70	---	-0.66	-0.02	-0.39	-0.38
11	-0.95	-0.94	-0.73	-1.80	-0.88	-0.06	-0.64	-0.32	0.21	-0.19	-0.67	-0.75
12	-1.39	-1.04	-0.99	-0.84	-1.32	0.12	0.43	-0.54	-0.01	-0.38	-0.53	-0.56
13	-1.46	-0.95	-1.12	-0.54	-1.20	0.17	0.02	-1.02	0.37	-0.16	-0.13	-0.22
14	-0.82	-1.33	-0.90	-0.56	-0.51	-1.31	-0.60	-0.95	1.29	-0.57	-0.68	-0.59
15	-0.97	-0.83	-1.30	-0.56	-0.43	-1.13	-0.23	-0.64	0.56	-0.80	-0.55	-0.74
16	-0.94	-0.59	-0.47	-0.10	-0.59	-0.71	-0.18	-0.66	0.24	-0.80	-0.77	-1.13
17	-1.04	-0.86	0.13	-0.67	---	-0.62	-0.67	-0.84	0.00	-0.47	-0.90	-1.13
18	-0.70	-0.65	0.81	-0.59	---	-0.30	-0.18	-0.68	-0.19	-0.62	-0.98	-0.72
19	0.06	-0.48	-0.14	-0.50	---	0.94	0.25	-0.61	-0.46	-0.44	-0.84	-0.84
20	0.31	-0.26	-1.08	-1.26	-1.48	-0.54	-0.95	-0.76	-0.70	-0.61	-0.99	-0.93
21	-0.22	-0.32	1.20	-1.68	---	-0.23	-1.00	-0.57	-0.99	-0.70	-0.83	-0.62
22	-0.75	-0.03	-0.63	-0.91	---	-0.18	-0.31	-0.56	-1.00	-0.51	-0.84	-0.71
23	-0.74	-0.36	-1.24	-1.69	-0.12	-1.31	-0.45	-0.43	-0.81	-0.08	-0.96	-0.69
24	-0.53	-0.93	-0.57	---	-0.32	-1.26	-0.42	-1.02	-1.00	-0.44	-0.88	-0.38
25	---	-1.46	-0.43	---	-0.96	0.01	-1.36	-1.62	-0.81	-0.80	-0.60	-0.10
26	-0.37	-1.45	-0.81	-1.45	-0.30	-0.16	-1.09	-1.63	-0.53	-0.35	-0.59	0.12
27	-0.34	-0.91	-0.38	-1.71	0.57	-0.89	-1.06	-1.00	-0.42	-0.67	-0.69	0.19
28	0.57	-0.48	-1.73	-1.31	0.22	-0.90	-0.74	-0.94	0.34	-0.63	0.03	0.31
29	1.57	-0.68	-0.30	-0.94	---	-0.67	-0.63	-0.66	0.37	-0.42	0.44	0.33
30	1.19	-1.28	---	-0.27	---	-0.70	-0.60	-0.62	-0.07	-0.50	0.69	---
31	0.63	---	-1.64	-1.74	---	-0.49	---	-0.80	---	-0.22	0.19	---
Total	---	-17.98	---	---	---	-11.44	-20.76	---	-10.07	-11.43	-12.03	---
Mean	---	-0.60	---	---	---	-0.37	-0.69	---	-0.34	-0.37	-0.39	---
Max	---	0.97	---	---	---	0.94	0.43	---	1.29	0.26	0.69	---
Min	---	-1.65	---	---	---	-1.36	-1.72	---	-1.00	-0.80	-0.99	---

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued



01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973 (e), 1974-75 (d), 1988 (a), 1989-90 (b), 1991 (c), 1992 (a), 1993 (c),1994 (d), 1995 (c), 1996 (a), 2010-13 (d).
MINOR ELEMENTS DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973-75 (d), 1988 (a), 1989-90 (b), 1991 (c), 1992 (a).
RADIOCHEMICAL DATA: 1974 (a), 1975 (d).
PESTICIDE DATA: 1993-94, 1996 (a), 2010-13 (d).
ORGANIC DATA: OC--1974 (b), 1975 (d), 1993 (c), 1994 (d), 1995 (c), 1999-2000 (e), 2010-13 (d). PCB--1993 (a). PCN--1993 (a).
NUTRIENT DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973-75 (d), 1993 (c), 1994 (d), 1995 (c), 2010-13 (d).
BIOLOGICAL DATA: Bacteria--1973 (c), 1974-75 (d). Phytoplankton--1973 (a), 1974 (b), 1975 (d), 1993 (a). Periphyton--1974 (c), 1975 (a).
SEDIMENT DATA: 1973 (a), 1974 (b), 1975 (a), 1989-90 (b), 1991 (c), 1992 (a), 1993 (c), 1994 (d), 1995 (c), 1999-2000 (e), 2010 (e), 2011-13 (d).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1959 to September 1966.

REMARKS.--Samples were collected by boat during the period of fastest ebb current of tidal cycle in a cross section in the vicinity of the city pumping station, unless otherwise noted. Daily water-temperature measurements were made at approximately 0830 during water years 1959-63 and at approximately 0700 during water years 1964-66. A medium code of WSQ indicates a replicate sample.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1959-66): Maximum daily, 26.5°C, August 29, 1959; minimum daily, 0.0°C on many days during winter periods.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Medium code	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per cm (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per cm (61726)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
10-05-2012	**0840**	WS	768	20.5	0.109	0.080	7.8	83	7.5
12-06-2012	**1120**	WS	773	3.0	.118	.089	11.2	87	7.7
01-22-2013	**1200**	WS	764	-5.0	.106	.081	10.0	71	7.3
02-07-2013	**1230**	WS	778	-7.2	.126	.099	9.6	65	7.5
02-19-2013	**1040**	WS	764	-5.6	.115	.088	9.9	69	7.7
03-07-2013	**1115**	WS	763	2.0	.104	.078	9.8	71	7.9
03-21-2013	**1140**	WS	758	1.7	.117	.089	9.0	68	7.7
04-04-2013	**1000**	WS	753	4.4	.093	.070	8.8	70	7.7
04-18-2013	**0915**	WS	755	12.8	.097	.078	10.4	92	7.6
05-06-2013	**1515**	WS	770	22.0	.117	.089	9.9	93	7.4
05-30-2013	**1000**	WS	768	29.4	.091	.066	9.3	95	7.7
06-27-2013	**0845**	WS	760	23.7	.157	.120	7.8	87	7.3
07-15-2013	**1020**	WS	771	33.3	.198	.157	6.4	77	7.3
08-27-2013	**1030**	WS	764	23.8	.143	.106	6.6	78	7.2
08-27-2013	**1040**	WSQ	--	--	.149	.112	--	--	--

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sampling method (82398)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
10-05-2012	**0840**	278	19.1	E 16	Single vertical	26.9	5.51	1.86	19.3
12-06-2012	**1120**	205	5.5	22	Point sample	21.0	3.93	1.08	11.9
01-22-2013	**1200**	244	1.1	E 12	Point sample	22.6	4.61	1.07	16.9
02-07-2013	**1230**	267	.6	E 17	Point sample	23.2	4.68	1.33	18.2
02-19-2013	**1040**	286	.6	34	Point sample	25.9	4.98	1.42	19.7
03-07-2013	**1115**	267	2.3	E 14	Point sample	24.8	5.06	1.10	18.7
03-21-2013	**1140**	322	3.6	34	Point sample	25.2	4.86	1.39	26.2
04-04-2013	**1000**	253	5.2	20	Point sample	23.7	4.53	1.13	18.3
04-18-2013	**0915**	250	9.6	E 15	Point sample	24.4	4.41	1.01	17.2
05-06-2013	**1515**	186	13.2	27	Single vertical	19.5	3.56	1.00	11.9
05-30-2013	**1000**	255	17.1	21	Single vertical	23.6	4.81	1.11	16.6
06-27-2013	**0845**	192	20.7	80	Single vertical	21.9	3.44	1.05	10.2
07-15-2013	**1020**	204	25.6	55	Single vertical	25.2	3.90	1.17	9.51
08-27-2013	**1030**	235	24.1	26	Single vertical	25.9	4.81	1.47	14.0
08-27-2013	**1040**	--	--	24	Single vertical	26.8	4.92	1.42	13.7

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)
10-05-2012	**0840**	69	0.73	28.4	0.07	< .03	1.15	18.0	0.24	0.35
12-06-2012	**1120**	52	.72	18.5	.07	< .03	4.63	11.8	.26	.35
01-22-2013	**1200**	55	.45	25.0	.06	< .03	5.21	13.9	.29	.30
02-07-2013	**1230**	60	1.11	29.4	.06	< .03	4.92	13.6	.32	.48
02-19-2013	**1040**	64	1.09	33.5	.06	< .03	5.12	13.3	.28	.43
03-07-2013	**1115**	64	.70	32.8	.05	< .03	5.07	13.5	.26	.37
03-21-2013	**1140**	66	.62	44.2	E .06	.12	4.53	14.5	.26	.43
04-04-2013	**1000**	59	.60	32.6	E .07	< .03	4.75	12.2	.24	.33
04-18-2013	**0915**	64	.07	27.4	E .06	< .03	3.75	12.8	.19	.28
05-06-2013	**1515**	48	1.03	18.1	.05	< .03	4.30	8.68	.30	.32
05-30-2013	**1000**	63	1.49	28.0	.07	< .03	1.26	13.4	.21	.39
06-27-2013	**0845**	62	2.40	14.5	.06	< .03	4.96	7.37	.21	.49
07-15-2013	**1020**	70	1.55	13.2	.06	< .03	5.48	7.15	.26	.42
08-27-2013	**1030**	67	1.18	22.0	.06	< .03	2.97	11.4	.22	.32
08-27-2013	**1040**	65	.99	22.1	.06	< .03	3.07	11.4	.23	.33

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	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)	Particulate nitrogen, suspended in water, mg/L (49570)	Phos-phorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)
10-05-2012	**0840**	< .010	0.396	0.003	0.024	0.115	0.031	0.070	--
12-06-2012	**1120**	.028	.389	.007	.023	.085	.027	.086	--
01-22-2013	**1200**	.052	.544	.009	.022	.034	.025	.054	--
02-07-2013	**1230**	.067	.667	.017	.025	.139	.031	.085	--
02-19-2013	**1040**	.097	.685	.014	.020	.143	.026	.089	--
03-07-2013	**1115**	.084	.666	.012	.023	.097	.027	.066	--
03-21-2013	**1140**	.083	.610	.012	.023	.026	.028	.082	--
04-04-2013	**1000**	.059	.564	.011	.019	.069	.025	.061	--
04-18-2013	**0915**	.051	.556	.015	.015	< .017	.017	.055	--
05-06-2013	**1515**	.020	.428	.010	.014	.117	.018	.069	--
05-30-2013	**1000**	.015	.581	.019	.008	.198	.012	.079	.72
06-27-2013	**0845**	.011	.459	.006	.027	.309	.033	.163	.67
07-15-2013	**1020**	< .010	.428	.003	.028	.095	.034	.126	.66
08-27-2013	**1030**	.012	.461	.003	.030	.107	.036	.098	.68
08-27-2013	**1040**	.012	.473	.003	.029	.074	.036	.088	.69

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Iron, water, filtered, µg/L (01046)	Lithium, water, filtered, µg/L (01130)	Strontium, water, filtered, µg/L (01080)	Vanadium, water, filtered, µg/L (01085)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
10-05-2012	**0840**	10.1	1.39	142	0.41	0.71	19	0.11	0.71	3.85
12-06-2012	**1120**	50.0	.97	93.2	.27	.43	11	.05	.72	3.65
01-22-2013	**1200**	57.5	1.13	110	.21	.33	12	.06	.45	3.39
02-07-2013	**1230**	55.6	1.04	122	.21	.31	10	.07	1.11	3.47
02-19-2013	**1040**	39.7	1.10	139	.29	.35	10	.08	1.08	3.24
03-07-2013	**1115**	49.6	1.05	116	.24	.34	11	.08	.70	2.95
03-21-2013	**1140**	66.5	1.10	150	.26	.28	11	.09	.50	3.04
04-04-2013	**1000**	79.8	1.11	118	.30	.33	10	.08	.60	2.79
04-18-2013	**0915**	49.9	1.36	157	.21	.32	10	.09	.07	2.64
05-06-2013	**1515**	34.0	.83	101	.27	.37	8	.07	1.03	3.27
05-30-2013	**1000**	33.6	1.24	131	.34	.50	12	.10	1.46	3.15
06-27-2013	**0845**	139	.87	106	.64	.62	10	.09	2.40	3.94
07-15-2013	**1020**	59.8	.82	127	.56	.66	11	.09	1.55	4.51
08-27-2013	**1030**	42.1	1.27	129	.55	.77	14	.12	1.18	3.94
08-27-2013	**1040**	46.0	1.27	128	.56	.78	14	.12	.99	3.99

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 6

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO_2, silicon dioxide; cm, centimeter; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; WS, Surface water; WSQ, QC sample - Surface water; <, less than; E, estimated]

Date	Sample start time	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen-tration, mg/L (80154)
10-05-2012	**0840**	99	24
12-06-2012	**1120**	--	35
01-22-2013	**1200**	--	16
02-07-2013	**1230**	--	34
02-19-2013	**1040**	--	37
03-07-2013	**1115**	97	24
03-21-2013	**1140**	99	37
04-04-2013	**1000**	96	27
04-18-2013	**0915**	97	24
05-06-2013	**1515**	98	36
05-30-2013	**1000**	96	39
06-27-2013	**0845**	98	109
07-15-2013	**1020**	99	69
08-27-2013	**1030**	97	39
08-27-2013	**1040**	98	38