01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ

Lower Hudson Basin
Raritan Subbasin

LOCATION.--Lat 40°30′28″, long 74°27′51″ referenced to North American Datum of 1983, New Brunswick City, Middlesex County, NJ, Hydrologic Unit 02030105.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 2012 to September 2014.

PERIOD OF DAILY RECORD.--
PH: January 2012 to September 2014.
SPECIFIC CONDUCTANCE: January 2012 to September 2014.
WATER TEMPERATURE: January 2012 to September 2014.
TURBIDITY: January 2012 to September 2014.

INSTRUMENTATION.--Water-quality monitor since January 2012. Flow tank, pumping system; data recorded on the quarter hour.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; pH, 0.3 units (+ or -); Turbidity, 0.5 FNU fouling, and the greater of 2.0 FNU (+ or -) or 5% of the measured value for drift. If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - PH: Jan 29, 2013 to Feb 25, 2013, Jun 12, 2013 to Jul 9, 2013, and Aug 28, 2013 - Sept 26, 2013; SPECIFIC CONDUCTANCE: Sept 13, 2012 to Nov 16, 2013. TURBIDITY: Aug 5, 2013 to Aug 28, 2013.

COOPERATION.--Continuous records collected in cooperation with the New Jersey Water Supply Authority.

EXTREMES FOR PERIOD OF DAILY RECORD.--
pH: Maximum, 9.3 standard units, Mar 19, Apr 10, 2012; minimum, 6.6 standard units, Jul 5, 21, 2013.
SPECIFIC CONDUCTANCE: Maximum, 571 microsiemens/cm, Feb 16, 2013; minimum, 131 microsiemens/cm, May 25, 2012.
WATER TEMPERATURE: Maximum, 29.3°C, Jul 7, 8, 2012 and Jul 20, 21, 2013; minimum, 0.3°C, Jan 28, 29 2013.
TURBIDITY: Maximum, 98 FNU, Jun 25, 2012; minimum, 0.6 FNU, Aug 8, 29, 2013.

EXTREMES FOR CURRENT YEAR.--
pH: Maximum, 9.2 standard units, Apr. 8, 9, 10; minimum, 6.5 standard units, July 9.
SPECIFIC CONDUCTANCE: Maximum, 623 microsiemens/cm, Feb. 16; minimum, 133 microsiemens/cm, Aug. 23.
WATER TEMPERATURE: Maximum, 29.6°C, July 20; minimum, 0.2°C, Jan. 29.
TURBIDITY: Maximum, 27 FNU, Feb. 9; minimum, <0.5 FNU, Aug. 30.

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	7.1	7.0	7.0	7.1	7.0	7.0	7.5	7.5	7.5	7.2	7.1	7.2
2	7.0	7.0	7.0	7.1	7.1	7.1	7.5	7.5	7.5	7.1	7.0	7.0
3	7.1	7.0	7.0	7.1	7.1	7.1	7.5	7.5	7.5	7.2	7.0	7.1
4	7.1	7.0	7.1	7.1	7.0	7.0	7.5	7.4	7.5	7.2	7.2	7.2
5	7.1	7.0	7.1	7.0	6.9	6.9	7.5	7.4	7.4	7.2	7.2	7.2
6	7.1	7.1	7.1	6.9	6.9	6.9	7.6	7.5	7.5	7.4	7.2	7.3
7	7.2	7.1	7.1	7.1	6.9	7.0	7.6	7.5	7.6	7.5	7.4	7.4
8	7.2	7.2	7.2	7.1	7.0	7.1	7.6	7.5	7.5	7.5	7.5	7.5
9	7.2	7.2	7.2	7.1	7.0	7.0	7.6	7.5	7.5	7.6	7.5	7.5
10	7.2	7.2	7.2	7.2	7.1	7.1	7.5	7.4	7.5	7.6	7.5	7.6
11	7.2	7.2	7.2	7.2	7.1	7.1	7.6	7.4	7.5	7.6	7.6	7.6
12	7.3	7.2	7.2	7.1	7.1	7.1	7.6	7.5	7.6	7.6	7.6	7.6
13	7.3	7.2	7.3	7.2	7.1	7.1	7.6	7.6	7.6	7.6	7.5	7.6
14	7.3	7.3	7.3	7.2	7.2	7.2	7.6	7.6	7.6	7.6	7.5	7.6
15	7.3	7.3	7.3	7.2	7.1	7.1	7.6	7.6	7.6	7.6	7.5	7.6
16	7.3	7.3	7.3	7.2	7.1	7.2	7.6	7.6	7.6	7.6	7.5	7.6
17	7.3	7.3	7.3	7.3	7.2	7.2	7.6	7.5	7.5	7.5	7.4	7.5
18	7.3	7.3	7.3	7.3	7.3	7.3	7.6	7.5	7.5	7.4	7.4	7.4
19	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.5	7.5	7.5	7.4	7.5
20	7.3	7.2	7.3	7.3	7.3	7.3	7.6	7.5	7.5	7.6	7.5	7.5
21	7.3	7.2	7.2	7.4	7.3	7.3	7.6	7.5	7.6	7.6	7.5	7.5
22	7.3	7.2	7.2	7.4	7.3	7.3	7.5	7.4	7.4	7.5	7.4	7.5
23	7.2	7.2	7.2	7.4	7.3	7.4	7.4	7.4	7.4	7.5	7.4	7.4
24	7.2	7.2	7.2	7.4	7.4	7.4	7.4	7.4	7.4	7.6	7.5	7.5
25	7.2	7.2	7.2	7.4	7.4	7.4	7.4	7.3	7.4	7.5	7.3	7.4
26	7.2	7.1	7.1	7.4	7.4	7.4	7.5	7.3	7.4	7.5	7.4	7.4
27	7.1	7.1	7.1	7.4	7.4	7.4	7.4	7.2	7.2	7.6	7.5	7.6
28	7.2	7.1	7.2	7.4	7.4	7.4	7.2	7.1	7.2	7.6	7.6	7.6
29	---	---	---	7.5	7.4	7.4	7.3	7.2	7.2	7.6	7.5	7.6
30	---	---	---	7.5	7.5	7.5	7.2	7.1	7.2	7.6	7.6	7.6
31	7.0	7.0	7.0	---	---	---	7.2	7.2	7.2	7.7	7.5	7.6
Max	---	---	---	7.5	7.5	7.5	7.6	7.6	7.6	7.7	7.6	7.6
Min	---	---	---	6.9	6.9	6.9	7.2	7.1	7.2	7.1	7.0	7.0

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	7.6	7.5	7.5	7.7	7.5	7.6	8.5	7.9	8.2	7.2	7.1	7.2
2	7.7	7.6	7.6	8.0	7.6	7.8	8.7	8.0	8.3	7.3	7.1	7.2
3	7.7	7.6	7.7	8.2	7.8	8.0	8.8	8.3	8.6	7.3	7.1	7.2
4	7.7	7.6	7.6	8.4	7.9	8.1	8.9	8.4	8.7	7.3	7.1	7.2
5	7.7	7.5	7.7	8.3	7.9	8.1	9.0	8.6	8.8	7.3	7.2	7.2
6	7.5	7.3	7.4	8.0	7.8	7.9	9.1	8.7	8.9	7.3	7.2	7.2
7	7.3	7.2	7.3	8.3	7.8	8.0	9.1	8.8	9.0	7.3	7.2	7.2
8	7.4	7.2	7.3	8.1	7.5	7.6	9.2	8.9	9.1	7.3	7.2	7.2
9	7.3	7.1	7.2	7.8	7.4	7.6	9.2	9.0	9.1	7.2	7.0	7.1
10	7.4	7.3	7.4	8.2	7.7	7.9	9.2	9.0	9.1	7.1	7.0	7.0
11	7.4	7.3	7.3	8.4	7.9	8.1	9.1	8.8	9.0	7.1	7.0	7.1
12	7.4	7.3	7.3	8.3	8.0	8.1	8.8	8.3	8.5	7.1	7.0	7.1
13	7.4	7.3	7.4	8.0	7.8	7.8	8.3	7.8	7.9	7.1	6.9	7.0
14	7.4	7.4	7.4	8.1	7.7	7.9	8.0	7.6	7.7	6.9	6.7	6.7
15	7.4	7.3	7.4	8.2	7.7	7.9	8.0	7.5	7.7	6.7	6.6	6.7
16	7.5	7.4	7.4	8.0	7.8	7.9	7.8	7.6	7.7	6.8	6.7	6.8
17	7.6	7.4	7.5	8.2	7.7	7.8	7.6	7.4	7.5	6.8	6.8	6.8
18	7.6	7.4	7.5	8.0	7.5	7.8	7.5	7.1	7.2	6.9	6.8	6.8
19	7.6	7.5	7.6	7.5	7.3	7.4	7.1	6.9	7.0	6.9	6.8	6.9
20	7.7	7.5	7.6	7.7	7.4	7.5	7.1	6.9	7.0	6.9	6.8	6.8
21	7.5	7.4	7.5	7.5	7.2	7.2	7.0	6.9	7.0	6.9	6.8	6.9
22	7.6	7.4	7.5	7.6	7.2	7.4	7.3	7.0	7.1	7.0	6.9	6.9
23	7.6	7.5	7.5	7.6	7.4	7.5	7.3	7.2	7.2	7.0	6.9	6.9
24	7.5	7.4	7.5	7.7	7.4	7.5	7.4	7.2	7.3	7.0	6.9	6.9
25	7.7	7.4	7.6	7.5	7.3	7.3	7.5	7.3	7.3	7.0	7.0	7.0
26	7.8	7.6	7.7	7.6	7.3	7.4	7.6	7.3	7.4	7.2	7.0	7.1
27	7.8	7.7	7.8	8.0	7.6	7.7	7.6	7.3	7.4	7.2	7.1	7.1
28	7.7	7.5	7.6	7.7	7.3	7.5	7.6	7.0	7.3	7.2	7.1	7.1
29	---	---	---	8.1	7.5	7.7	7.1	7.0	7.0	7.2	7.1	7.1
30	---	---	---	8.6	7.8	8.1	7.2	7.1	7.1	7.1	7.0	7.0
31	---	---	---	8.5	8.1	8.3	---	---	---	7.1	7.0	7.1
Max	7.8	7.7	7.8	8.6	8.1	8.3	9.2	9.0	9.1	7.3	7.2	7.2
Min	7.3	7.1	7.2	7.5	7.2	7.2	7.0	6.9	7.0	6.7	6.6	6.7

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	7.1	6.8	6.9	7.0	7.0	7.0	7.1	6.9	6.9	7.4	7.2	7.3
2	6.9	6.8	6.8	7.0	6.8	6.9	7.1	7.1	7.1	7.4	7.4	7.4
3	7.0	6.9	7.0	6.9	6.8	6.8	7.1	7.0	7.0	7.4	7.3	7.3
4	7.1	7.0	7.1	6.8	6.6	6.7	7.1	7.1	7.1	7.5	7.3	7.4
5	7.2	7.0	7.1	6.7	6.6	6.6	---	---	---	7.6	7.5	7.5
6	7.2	7.1	7.1	6.8	6.7	6.8	7.3	7.1	7.2	7.6	7.5	7.6
7	7.2	7.2	7.2	6.8	6.7	6.8	7.3	7.1	7.2	7.7	7.5	7.6
8	7.2	7.0	7.0	6.9	6.8	6.8	7.1	7.0	7.0	7.7	7.6	7.7
9	7.1	7.0	7.0	6.9	6.5	6.8	7.1	7.0	7.0	7.6	7.1	7.6
10	7.1	7.0	7.0	6.8	6.6	6.7	7.2	7.1	7.1	7.3	7.2	7.2
11	7.0	7.0	7.0	6.8	6.7	6.7	7.3	7.2	7.2	7.3	7.1	7.2
12	7.0	6.9	7.0	6.8	6.8	6.8	7.3	7.2	7.2	7.2	6.9	7.1
13	6.9	6.8	6.9	6.8	6.8	6.8	7.3	7.2	7.3	7.0	6.8	6.9
14	6.9	6.8	6.9	6.8	6.8	6.8	7.3	7.3	7.3	7.1	7.0	7.0
15	6.9	6.8	6.9	6.9	6.8	6.8	7.3	7.2	7.3	7.1	7.0	7.0
16	6.8	6.7	6.8	6.9	6.8	6.9	7.4	7.3	7.3	7.0	6.9	7.0
17	6.8	6.7	6.7	7.0	6.9	6.9	7.4	7.4	7.4	7.1	7.0	7.0
18	6.8	6.8	6.8	7.0	6.9	6.9	7.4	7.4	7.4	7.1	7.0	7.0
19	6.8	6.8	6.8	6.9	6.7	6.8	7.4	7.3	7.4	7.0	7.0	7.0
20	6.9	6.8	6.8	6.7	6.6	6.7	7.3	7.0	7.2	7.0	6.9	6.9
21	6.9	6.9	6.9	6.7	6.6	6.6	7.0	6.9	6.9	7.0	6.9	6.9
22	6.9	6.9	6.9	6.8	6.7	6.7	7.1	6.9	7.0	7.0	6.9	7.0
23	6.9	6.9	6.9	7.0	6.8	6.9	7.0	6.9	6.9	6.9	6.8	6.8
24	6.9	6.8	6.8	7.1	7.0	7.0	7.1	6.9	7.0	7.0	6.9	6.9
25	6.9	6.8	6.8	7.1	7.1	7.1	7.2	7.0	7.1	7.0	6.9	6.9
26	6.9	6.9	6.9	7.2	7.1	7.1	7.2	7.1	7.2	7.4	6.9	7.3
27	7.0	6.9	6.9	7.2	7.2	7.2	7.3	7.2	7.2	7.3	7.3	7.3
28	7.0	6.9	7.0	7.2	7.1	7.2	7.3	7.2	7.2	7.3	7.3	7.3
29	7.0	6.9	6.9	7.2	7.0	7.1	7.2	7.1	7.2	7.3	7.2	7.2
30	7.0	7.0	7.0	7.0	6.8	6.9	7.1	7.0	7.1	7.3	7.2	7.3
31	---	---	---	6.9	6.8	6.8	7.2	7.0	7.1	---	---	---
Max	7.2	7.2	7.2	7.2	7.2	7.2	---	---	---	7.7	7.6	7.7
Min	6.8	6.7	6.7	6.7	6.5	6.6	---	---	---	6.9	6.8	6.8

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	150	143	145	177	174	175	211	201	204	327	244	269
2	144	140	142	174	169	171	212	202	206	244	207	218
3	164	140	149	173	168	171	263	212	230	239	220	225
4	165	161	163	168	165	166	296	263	285	327	239	267
5	167	164	166	172	165	169	286	241	261	344	327	342
6	173	167	170	175	170	171	241	224	234	339	273	318
7	185	173	179	177	175	176	224	218	220	273	237	252
8	197	185	190	222	176	194	233	217	222	237	231	233
9	203	197	201	290	222	267	246	233	242	235	233	234
10	203	191	200	266	206	240	245	238	241	233	228	230
11	191	177	181	206	196	200	238	236	237	228	222	225
12	188	178	181	196	185	191	237	236	236	333	222	250
13	190	188	190	219	183	190	239	235	238	333	264	281
14	193	190	192	345	219	292	244	239	243	265	234	240
15	194	190	193	374	309	355	244	238	240	245	234	240
16	199	193	196	309	226	259	242	238	240	344	239	258
17	199	197	198	226	209	215	255	238	246	386	314	347
18	199	198	198	209	200	203	268	251	257	364	274	309
19	200	195	198	206	200	203	271	261	267	274	259	267
20	197	189	194	234	206	220	261	244	253	263	254	256
21	206	194	201	229	209	213	244	230	236	280	263	274
22	212	206	209	212	206	209	231	219	225	306	272	292
23	214	209	212	207	206	206	226	221	224	305	254	274
24	211	209	210	206	189	199	223	213	220	254	248	252
25	210	209	209	189	180	183	270	204	213	248	229	236
26	209	205	207	182	180	181	452	242	276	237	230	234
27	219	204	208	228	182	190	421	268	334	240	233	237
28	234	219	230	299	186	238	366	290	329	237	224	229
29	---	---	---	291	237	265	324	253	270	296	223	246
30	---	---	---	269	211	235	342	232	286	292	256	274
31	185	177	180	---	---	---	342	284	312	300	228	252
Month	---	---	---	374	165	212	452	201	249	386	207	260

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	314	295	303	349	329	339	315	299	306	218	201	207
2	310	278	286	329	313	323	315	278	293	203	201	202
3	362	290	321	313	300	304	278	261	265	201	198	201
4	372	333	349	316	303	310	263	260	262	198	196	197
5	337	301	313	328	316	323	262	256	259	201	197	198
6	316	288	304	317	302	308	260	256	258	203	201	202
7	294	284	290	302	277	294	269	260	265	203	200	201
8	284	250	276	277	236	250	260	248	253	205	193	202
9	434	225	325	428	254	378	248	246	247	249	203	221
10	489	342	417	435	331	397	249	246	248	229	212	222
11	402	307	346	331	289	303	268	242	246	224	221	222
12	478	310	411	289	283	285	277	237	251	230	222	225
13	449	424	439	388	289	349	271	235	250	227	213	222
14	522	417	438	448	388	408	252	245	250	213	197	203
15	546	509	529	488	405	457	253	246	249	205	195	200
16	623	509	571	405	324	352	266	249	254	221	205	212
17	509	471	488	330	316	323	267	263	265	227	203	221
18	499	412	465	385	327	354	279	263	272	224	198	208
19	412	391	396	558	353	410	268	247	260	226	171	206
20	440	381	401	551	431	458	247	237	241	188	156	166
21	508	440	480	457	292	333	248	221	231	212	188	202
22	457	352	390	293	273	285	226	224	225	212	204	209
23	352	326	341	312	271	282	224	216	219	204	201	202
24	333	318	326	338	310	320	216	214	215	211	199	202
25	331	321	326	338	321	332	221	215	218	216	210	213
26	321	310	318	370	313	338	227	221	225	216	213	214
27	327	297	305	330	310	321	223	218	220	215	213	214
28	348	327	338	319	273	298	218	187	207	233	215	223
29	---	---	---	274	268	272	202	186	194	233	222	225
30	---	---	---	271	265	267	221	202	211	233	227	230
31	---	---	---	299	271	288	---	---	---	232	228	231
Month	623	225	375	558	236	331	315	186	245	249	156	210

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	228	165	197	211	206	209	220	175	194	239	220	234
2	184	163	170	215	205	212	228	220	226	244	216	240
3	210	183	200	206	195	199	229	222	225	245	237	242
4	224	210	217	195	160	179	231	229	230	249	242	245
5	214	211	213	182	157	165	---	---	---	252	245	250
6	211	207	209	218	182	205	244	219	233	245	222	231
7	214	203	208	216	200	205	245	200	235	235	227	232
8	217	171	195	217	211	215	200	177	186	246	226	238
9	229	211	219	213	188	201	214	199	209	226	212	215
10	218	167	194	188	163	176	230	211	219	244	218	232
11	191	171	186	181	162	168	239	230	236	244	226	233
12	201	186	195	189	181	187	246	239	242	226	179	208
13	186	156	171	188	183	185	262	246	254	209	175	188
14	171	154	165	189	185	187	260	244	251	216	209	214
15	188	171	183	191	186	189	251	243	248	216	202	212
16	183	178	180	199	191	195	250	247	249	202	197	198
17	195	179	187	200	198	199	250	246	247	213	200	208
18	211	195	203	200	196	199	253	247	251	223	213	219
19	217	210	214	196	180	187	252	236	247	226	223	225
20	211	201	205	180	158	170	236	166	198	226	221	224
21	221	211	218	168	156	159	177	165	169	231	221	227
22	217	199	208	193	168	179	180	146	169	231	216	226
23	204	198	201	222	193	210	170	133	151	231	215	220
24	202	193	197	226	220	223	194	170	186	239	230	236
25	193	191	192	234	226	231	199	188	193	230	224	226
26	198	191	195	238	233	236	215	199	206	224	220	222
27	199	194	197	237	234	236	222	215	218	224	220	221
28	199	186	194	234	223	230	223	217	220	226	224	225
29	203	192	197	223	210	217	220	197	212	229	221	226
30	207	203	206	210	183	194	197	176	188	241	221	231
31	---	---	---	183	170	174	222	174	191	---	---	---
Month	229	154	197	238	156	197	---	---	---	252	175	225

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	19.1	18.6	18.8	13.0	12.3	12.5	4.1	4.0	4.1	2.6	2.4	2.5
2	18.8	18.5	18.6	12.3	11.8	12.1	4.5	4.1	4.3	2.5	2.2	2.3
3	18.9	18.6	18.8	11.8	11.0	11.3	5.1	4.5	4.8	2.2	1.8	1.9
4	19.1	18.8	18.9	11.0	10.4	10.6	6.0	5.1	5.5	1.8	1.5	1.6
5	19.5	18.8	19.1	10.5	9.8	10.2	6.3	6.0	6.2	1.7	1.3	1.5
6	19.4	19.1	19.2	9.8	8.9	9.2	6.1	5.6	5.8	2.0	1.4	1.7
7	19.1	17.8	18.4	8.9	7.6	8.3	5.6	5.3	5.4	2.2	1.6	1.9
8	17.8	16.7	17.2	7.6	6.9	7.4	6.0	5.4	5.7	2.2	1.7	2.0
9	16.7	16.2	16.4	7.0	6.3	6.7	6.2	6.0	6.1	2.2	1.8	2.0
10	16.4	16.2	16.3	6.9	6.6	6.8	6.4	6.2	6.3	2.5	2.0	2.2
11	16.2	15.6	15.8	7.5	6.7	7.1	6.7	6.4	6.6	2.7	2.2	2.4
12	15.6	14.5	15.0	8.2	7.3	7.6	6.7	6.4	6.5	3.5	2.7	3.0
13	14.5	13.8	14.0	8.3	8.2	8.3	6.4	5.9	6.1	4.1	3.5	3.8
14	14.1	13.7	13.9	8.2	7.8	8.0	5.9	5.5	5.7	4.7	4.1	4.4
15	14.3	14.0	14.1	7.8	7.4	7.6	5.7	5.2	5.4	5.0	4.6	4.8
16	14.2	14.0	14.1	7.7	7.4	7.5	5.6	5.4	5.5	4.9	4.7	4.8
17	14.1	13.6	13.7	7.4	7.0	7.2	5.8	5.6	5.6	5.1	4.7	4.9
18	14.1	13.3	13.6	7.1	6.6	6.8	6.4	5.8	6.1	5.0	4.4	4.7
19	14.8	14.1	14.4	6.9	6.5	6.7	6.4	6.2	6.3	4.4	3.9	4.2
20	15.4	14.7	15.1	6.9	6.6	6.7	6.2	5.7	5.8	4.5	3.9	4.2
21	15.2	14.5	14.8	6.8	6.4	6.6	6.7	5.8	6.2	4.3	3.7	3.9
22	14.8	14.2	14.5	6.6	6.2	6.4	6.9	5.6	6.4	3.7	2.0	2.8
23	14.6	14.2	14.4	6.8	6.3	6.5	5.6	5.0	5.3	2.0	1.0	1.3
24	14.8	14.5	14.6	6.8	6.2	6.5	5.0	4.5	4.8	1.0	0.6	0.8
25	14.9	14.7	14.8	6.2	5.6	6.0	4.9	4.6	4.7	0.6	0.4	0.5
26	15.4	14.9	15.1	5.6	5.2	5.3	4.7	3.9	4.2	0.5	0.3	0.4
27	15.7	15.4	15.5	5.2	4.9	5.0	4.3	3.9	4.1	0.5	0.3	0.4
28	15.6	15.2	15.4	5.0	4.7	4.9	4.1	3.7	4.0	0.4	0.3	0.3
29	---	---	---	4.7	4.2	4.4	3.7	3.2	3.4	0.5	0.2	0.3
30	---	---	---	4.2	3.8	4.0	3.2	2.6	2.9	1.4	0.3	0.7
31	13.8	13.0	13.4	---	---	---	2.6	2.4	2.5	4.0	1.4	2.5
Month	---	---	---	13.0	3.8	7.5	6.9	2.4	5.2	5.1	0.2	2.4

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	4.1	2.2	3.1	4.8	4.2	4.6	9.6	8.4	9.0	17.4	15.6	16.4
2	2.2	1.3	1.6	4.8	4.3	4.6	9.5	8.5	9.0	17.8	16.1	16.8
3	1.9	1.5	1.7	4.9	4.2	4.6	9.3	8.3	8.9	18.2	17.0	17.5
4	1.9	1.3	1.6	4.7	3.9	4.4	9.6	8.4	9.0	18.4	17.3	17.8
5	1.4	1.1	1.3	5.3	4.1	4.7	10.7	9.1	9.8	18.5	17.4	18.0
6	1.9	1.4	1.6	5.2	4.8	5.0	11.1	9.7	10.4	18.7	17.7	18.1
7	1.6	1.3	1.5	5.2	4.7	5.0	11.7	10.2	11.0	19.0	17.9	18.4
8	1.4	1.0	1.2	5.1	4.6	4.7	13.0	11.2	12.0	19.0	18.3	18.6
9	1.0	0.6	0.8	5.5	4.2	4.8	14.7	12.7	13.6	18.7	17.7	18.3
10	0.9	0.4	0.7	5.9	4.7	5.3	15.9	14.3	14.9	19.4	17.9	18.5
11	1.1	0.8	0.9	6.7	5.7	6.1	15.7	15.3	15.5	19.7	19.0	19.3
12	1.8	1.0	1.4	7.4	6.7	7.0	15.4	13.8	14.5	19.9	19.2	19.5
13	2.3	1.4	1.8	8.5	7.1	7.8	14.0	13.2	13.6	19.3	18.4	18.8
14	3.0	2.0	2.5	8.0	7.1	7.5	14.8	13.2	13.9	18.4	17.3	17.8
15	4.0	2.8	3.3	7.3	6.4	6.8	14.8	13.9	14.4	18.0	17.0	17.3
16	4.3	3.7	4.0	6.9	6.5	6.6	15.6	14.2	14.8	18.5	17.7	17.9
17	4.2	3.2	3.7	6.6	6.0	6.3	16.6	15.3	15.8	19.1	18.3	18.6
18	3.2	2.3	2.7	6.3	5.5	5.9	16.3	15.8	15.9	19.0	18.5	18.7
19	2.9	2.1	2.5	5.8	5.2	5.4	16.7	15.6	16.0	18.7	18.0	18.3
20	2.9	2.4	2.6	6.1	4.8	5.5	16.8	16.0	16.4	18.6	17.8	18.1
21	2.5	1.9	2.3	6.2	5.6	5.9	16.4	15.1	15.7	19.3	18.3	18.7
22	2.3	1.8	2.0	6.0	5.2	5.7	15.7	14.7	15.2	20.5	19.3	19.8
23	2.8	2.2	2.4	6.2	5.1	5.7	15.4	14.7	14.8	21.2	20.5	20.9
24	3.4	2.6	3.0	6.4	5.3	5.9	15.5	14.1	14.7	21.1	19.9	20.7
25	3.6	2.8	3.2	6.3	5.9	6.1	16.1	14.5	15.3	19.9	18.5	19.3
26	3.7	3.0	3.4	6.8	5.8	6.3	16.5	15.1	15.8	18.9	17.6	18.3
27	4.3	3.6	3.9	7.2	6.0	6.6	16.8	15.4	16.0	19.2	17.6	18.4
28	4.9	4.2	4.5	7.3	6.4	6.9	17.1	16.1	16.5	18.9	18.1	18.4
29	---	---	---	7.9	6.6	7.3	16.9	16.1	16.5	19.3	18.3	18.6
30	---	---	---	8.8	7.2	8.0	16.9	15.9	16.4	20.2	19.0	19.5
31	---	---	---	8.7	8.0	8.4	---	---	---	21.5	20.2	20.9
Month	4.9	0.4	2.3	8.8	3.9	6.0	17.1	8.3	13.8	21.5	15.6	18.6

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	22.2	21.5	21.9	26.7	26.2	26.4	25.1	24.5	24.8	25.1	24.8	24.9
2	23.3	22.1	22.7	26.2	25.6	25.9	24.9	24.3	24.5	25.2	25.0	25.1
3	24.4	23.2	24.0	26.3	25.6	25.9	24.6	24.2	24.3	25.3	25.0	25.1
4	24.7	23.6	24.1	26.5	25.8	26.1	24.7	24.0	24.4	25.1	24.5	24.8
5	24.2	23.2	23.7	26.9	26.2	26.5	---	---	---	24.9	24.1	24.4
6	23.9	23.2	23.4	27.6	26.9	27.2	24.5	23.8	24.1	24.1	23.1	23.5
7	23.2	20.4	22.3	28.5	27.6	27.9	24.3	24.0	24.1	23.1	22.4	22.7
8	20.4	18.2	19.1	28.8	27.9	28.3	24.2	23.9	24.0	22.9	22.4	22.7
9	21.6	19.3	20.2	28.6	28.0	28.3	24.6	24.0	24.2	22.4	21.9	22.1
10	21.2	20.6	20.9	28.3	27.9	28.0	25.1	24.4	24.7	22.4	22.0	22.1
11	20.6	19.6	20.1	28.1	27.8	27.9	25.2	24.5	24.8	23.2	22.3	22.7
12	21.8	20.2	20.9	27.8	26.6	27.3	25.4	24.8	25.0	24.0	23.2	23.6
13	21.5	20.6	21.0	26.6	26.3	26.5	25.3	24.9	25.1	24.0	23.4	23.8
14	20.7	19.2	19.8	26.9	26.1	26.4	25.0	24.3	24.6	23.4	22.2	22.8
15	20.8	19.2	19.9	27.7	26.6	27.0	24.3	23.6	23.9	22.2	21.6	21.8
16	21.2	20.0	20.5	28.3	27.3	27.7	24.1	23.4	23.7	21.6	20.9	21.2
17	21.7	20.9	21.1	28.8	27.9	28.2	23.9	23.4	23.6	20.9	20.2	20.5
18	22.1	21.6	21.8	29.0	28.3	28.6	23.7	23.4	23.6	20.2	19.4	19.7
19	22.4	21.8	22.0	29.2	28.8	29.0	23.4	23.0	23.2	19.6	19.1	19.3
20	22.6	21.7	22.0	29.6	29.1	29.3	23.3	22.7	23.0	19.7	19.0	19.3
21	23.1	22.1	22.4	29.5	29.1	29.3	23.6	23.0	23.3	19.6	19.3	19.5
22	23.2	22.6	22.8	29.3	28.8	29.0	24.0	23.4	23.8	19.7	19.4	19.6
23	23.7	23.1	23.3	29.2	28.6	28.9	23.7	23.0	23.4	19.4	18.9	19.1
24	24.8	23.7	24.2	28.9	28.0	28.4	24.0	23.1	23.5	18.9	18.3	18.5
25	25.5	24.5	24.8	28.0	26.3	27.0	23.7	22.9	23.3	18.5	18.1	18.3
26	25.9	25.0	25.4	26.6	25.9	26.2	23.8	23.1	23.4	18.4	18.0	18.2
27	26.1	25.6	25.8	26.2	25.7	26.0	24.4	23.7	23.9	18.2	18.0	18.1
28	26.4	25.7	26.0	26.0	25.6	25.7	24.3	24.1	24.2	18.2	17.9	18.1
29	27.0	25.7	26.2	26.1	25.4	25.6	24.4	24.1	24.2	18.2	17.9	18.0
30	26.8	26.3	26.5	25.6	24.8	25.1	24.5	23.8	24.1	18.2	17.8	18.0
31	---	---	---	25.3	24.8	25.0	24.8	24.1	24.4	---	---	---
Month	27.0	18.2	22.6	29.6	24.8	27.2	---	---	---	25.3	17.8	21.2

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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	2.7	1.5	1.8	3.4	2.4	2.9	1.9	1.7	1.8	14	13	14
2	2.6	1.8	2.0	2.8	2.1	2.5	2.0	1.7	1.9	22	13	16
3	2.4	1.5	1.8	2.8	2.2	2.5	2.1	1.8	2.0	26	14	20
4	2.3	1.2	1.5	2.5	2.0	2.3	2.6	2.0	2.3	15	10	12
5	1.8	1.3	1.5	3.1	2.1	2.7	2.5	1.6	2.0	14	10	12
6	1.9	1.2	1.4	3.2	2.4	2.9	1.8	1.4	1.6	11	4.5	7.2
7	1.6	1.0	1.3	3.1	2.2	2.5	1.6	1.3	1.4	4.8	3.1	3.8
8	1.6	1.0	1.3	5.8	2.3	3.5	1.7	1.3	1.5	3.3	2.5	2.9
9	2.0	1.0	1.4	6.3	4.3	5.6	1.9	1.5	1.6	2.8	2.1	2.4
10	1.8	1.2	1.4	4.5	2.8	3.6	2.0	1.6	1.7	2.5	2.1	2.3
11	1.9	1.2	1.6	3.3	2.5	2.8	2.0	1.4	1.6	2.4	2.0	2.1
12	2.1	1.2	1.5	2.8	2.3	2.5	1.6	1.4	1.5	3.2	1.9	2.4
13	2.1	1.4	1.6	2.7	2.3	2.5	1.6	1.3	1.4	3.1	2.3	2.5
14	3.0	1.3	1.7	2.7	2.0	2.4	1.8	1.3	1.4	2.9	2.0	2.4
15	3.6	1.5	1.9	2.5	1.9	2.2	1.6	1.4	1.5	3.2	2.0	2.6
16	2.9	1.5	1.9	2.3	1.9	2.0	1.6	1.4	1.5	4.3	2.4	3.1
17	2.2	1.5	1.8	2.2	1.8	2.0	1.9	1.4	1.6	6.1	4.3	5.4
18	2.2	1.5	1.8	2.3	1.8	2.0	4.1	1.8	2.5	7.6	4.8	6.6
19	2.7	1.6	2.0	2.3	1.9	2.1	5.9	4.1	4.9	6.2	4.2	4.6
20	3.7	2.4	3.1	2.3	2.0	2.1	4.6	3.8	4.2	6.4	4.5	5.3
21	3.6	2.2	2.8	2.3	2.0	2.1	8.2	2.7	3.9	6.3	5.3	5.7
22	4.2	2.5	3.3	2.2	1.7	2.0	13	6.2	10	10	5.4	7.5
23	2.8	1.7	2.1	2.0	1.8	1.9	15	5.9	10	11	7.8	9.3
24	2.4	1.6	2.0	2.2	1.8	2.0	9.5	6.2	7.2	11	6.6	7.6
25	2.4	1.8	2.0	2.2	1.6	2.0	7.3	5.6	6.4	19	11	17
26	3.1	1.9	2.1	2.3	1.7	1.9	6.0	4.9	5.3	14	6.1	9.6
27	2.5	1.9	2.2	2.4	1.8	2.0	23	5.8	14	6.1	3.5	4.6
28	2.2	1.8	2.0	2.4	1.7	2.0	22	13	17	3.7	2.6	3.1
29	---	---	---	2.2	1.8	2.0	19	13	15	2.9	2.3	2.6
30	---	---	---	2.1	1.8	1.9	24	14	21	2.6	1.9	2.3
31	5.1	3.2	4.0	---	---	---	19	14	16	18	1.9	6.2
Month	---	---	---	6.3	1.6	2.4	24	1.3	5.3	26	1.9	6.6

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—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

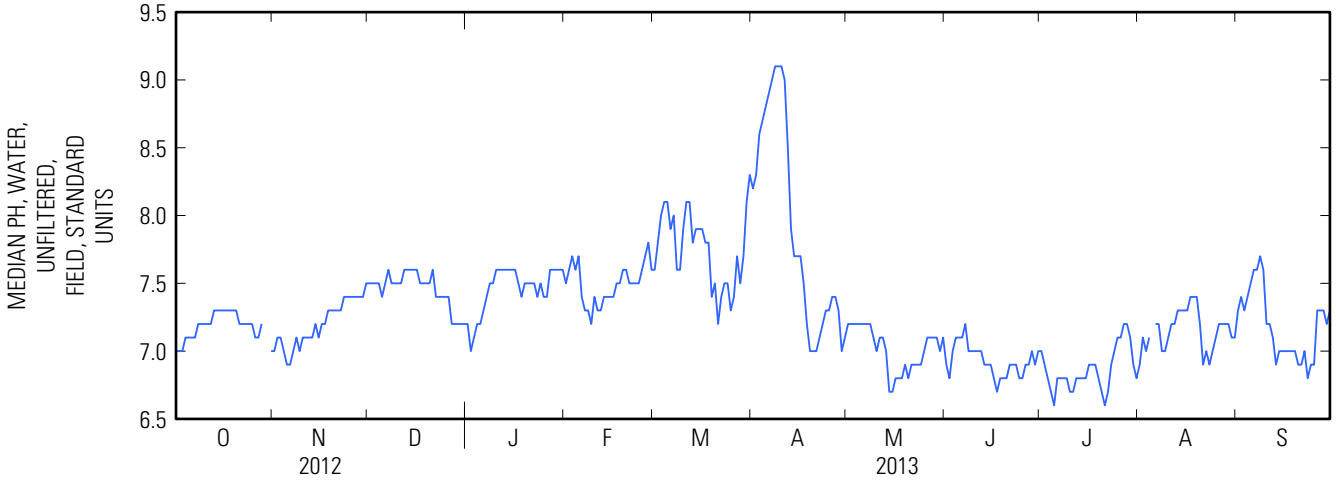
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	19	6.8	13	5.5	3.8	4.6	2.4	1.8	2.1	2.6	1.8	2.2
2	19	6.8	12	3.9	2.9	3.2	2.2	1.7	1.9	2.9	1.7	2.1
3	8.7	5.7	6.8	3.7	2.9	3.2	2.0	1.6	1.7	2.4	1.6	1.9
4	13	6.9	9.6	3.2	2.5	2.8	1.9	1.5	1.6	2.8	1.6	2.1
5	10	5.6	6.8	4.9	2.5	3.4	1.6	1.4	1.5	2.7	1.5	2.0
6	12	5.6	9.0	4.9	3.4	4.1	1.6	1.4	1.5	2.3	1.5	1.9
7	12	9.7	11	9.2	2.9	4.0	1.7	1.4	1.6	2.3	1.5	1.9
8	24	7.8	12	17	9.2	14	1.8	1.4	1.5	23	1.9	3.4
9	27	12	21	10	3.8	6.1	2.0	1.4	1.6	6.6	3.4	4.4
10	12	6.7	8.5	3.9	2.5	3.1	2.2	1.7	1.9	4.0	2.0	2.7
11	7.0	5.3	6.2	2.6	1.8	2.3	3.3	1.9	2.4	2.6	1.9	2.2
12	6.5	4.4	5.5	2.7	1.7	2.0	3.3	2.5	2.9	2.6	2.0	2.2
13	4.5	3.3	3.9	4.6	1.8	3.4	3.8	3.0	3.4	3.2	2.1	2.4
14	4.2	3.4	3.7	4.7	2.9	3.8	3.7	2.6	2.9	4.4	3.2	3.5
15	4.8	3.3	3.8	3.8	2.1	2.9	4.3	2.2	2.7	5.0	3.9	4.4
16	3.8	3.1	3.4	3.4	2.2	2.8	2.8	2.1	2.4	4.4	3.2	3.8
17	3.7	3.1	3.4	4.3	2.8	3.5	3.0	1.8	2.1	4.4	3.3	3.6
18	4.4	3.6	3.9	5.3	2.7	3.6	3.4	2.1	2.5	5.3	3.3	4.2
19	4.2	3.2	3.8	6.9	5.2	6.3	3.8	2.8	3.2	6.4	3.5	4.3
20	3.4	2.5	3.0	7.5	4.5	5.2	4.2	2.9	3.4	7.3	4.4	6.0
21	4.9	2.9	4.1	16	7.5	13	5.3	3.7	4.4	4.8	2.5	3.4
22	4.6	3.5	4.0	10	4.4	6.8	3.7	2.7	3.1	3.3	2.3	2.7
23	4.5	3.3	3.9	5.2	4.5	4.9	3.2	2.2	2.6	3.2	2.2	2.7
24	5.4	3.9	4.6	5.1	4.0	4.6	2.7	1.9	2.2	3.4	2.2	2.7
25	5.0	3.6	4.3	5.6	4.2	5.0	2.6	1.8	2.1	3.2	2.2	2.7
26	3.7	2.3	3.0	5.4	3.5	4.5	2.4	1.8	2.1	3.3	2.0	2.6
27	3.1	1.9	2.3	4.8	2.9	3.4	2.2	1.6	1.9	3.3	1.8	2.4
28	4.7	3.0	4.2	9.3	4.8	7.3	4.0	1.9	2.7	3.2	2.1	2.5
29	---	---	---	5.3	2.7	4.1	4.8	2.8	3.5	2.7	1.8	2.3
30	---	---	---	2.9	2.1	2.5	4.0	2.2	2.8	3.1	1.9	2.3
31	---	---	---	2.3	1.9	2.1	---	---	---	2.6	1.9	2.2
Month	27	1.9	6.5	17	1.7	4.6	5.3	1.4	2.4	23	1.5	2.9

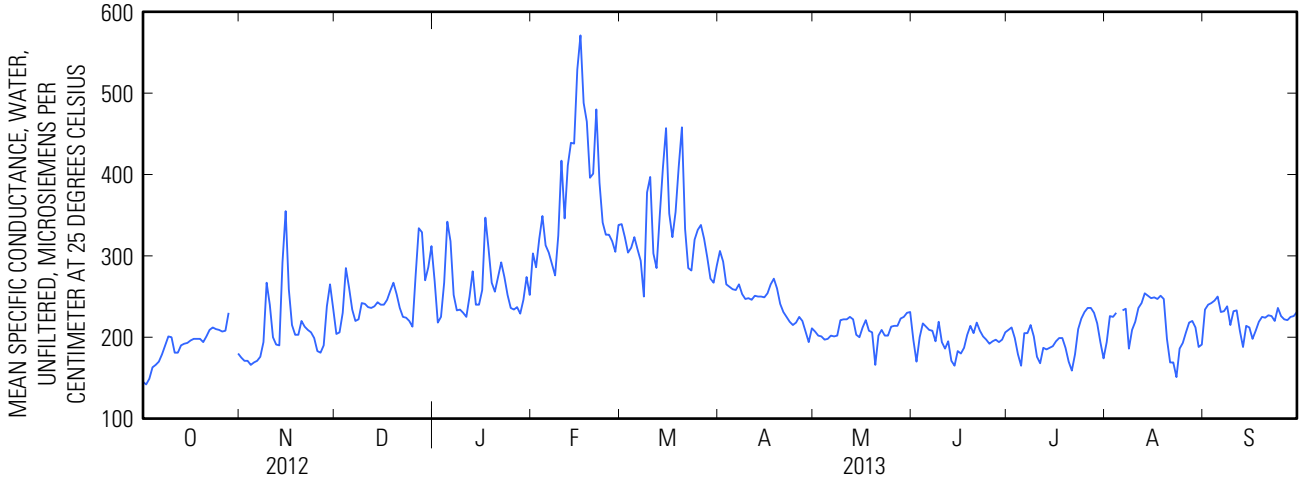
01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—Continued

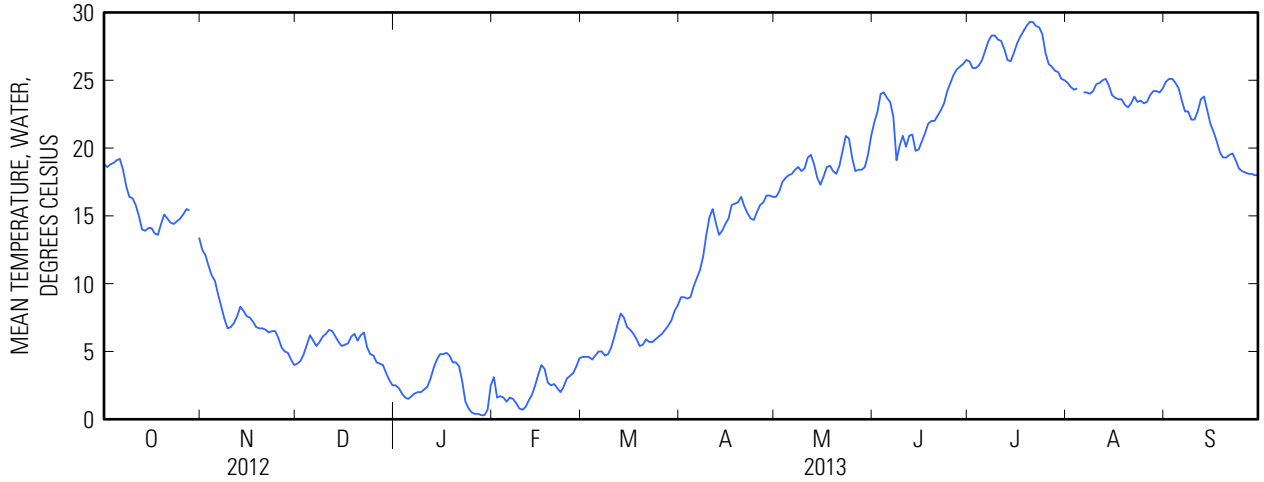
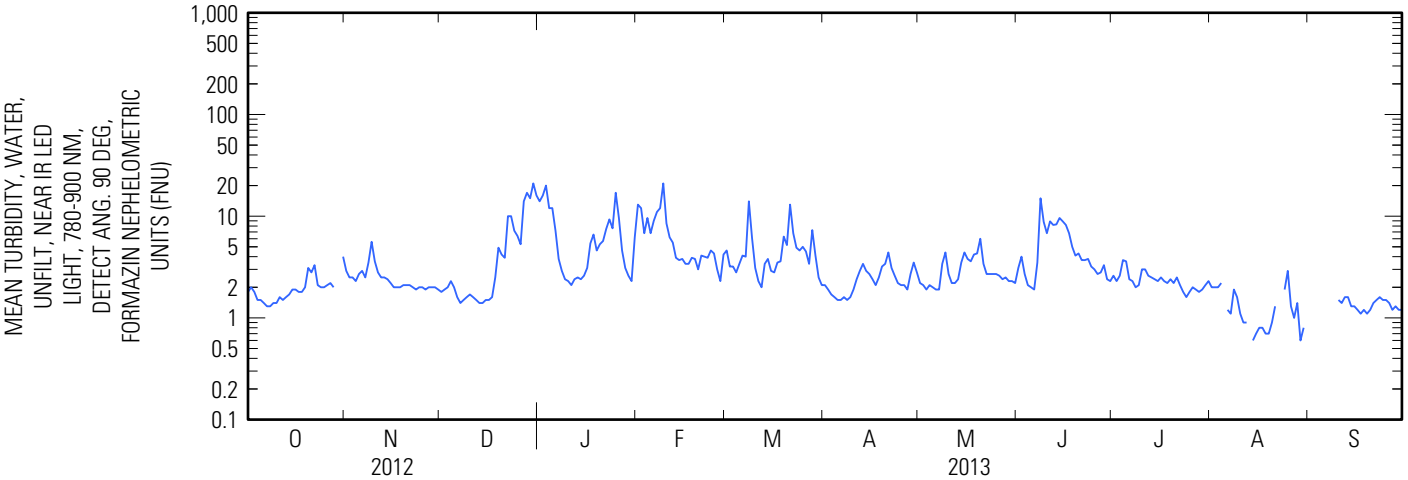
TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	4.2	2.3	3.1	4.0	2.0	2.6	2.9	1.6	2.0	---	---	---
2	5.2	3.3	4.0	2.8	1.9	2.3	2.9	1.4	2.0	---	---	---
3	3.9	1.9	2.7	3.2	2.1	2.6	2.8	1.6	2.0	---	---	---
4	2.6	1.7	2.1	4.1	2.8	3.7	3.0	1.8	2.2	---	---	---
5	2.5	1.6	2.0	4.3	3.0	3.6	---	---	---	---	---	---
6	2.2	1.6	1.9	3.4	2.0	2.4	2.6	0.8	1.2	---	---	---
7	12	1.9	3.5	2.6	1.9	2.3	2.0	0.9	1.1	---	---	---
8	21	8.4	15	2.3	1.7	2.0	7.8	1.1	1.9	---	---	---
9	9.8	7.4	8.8	2.5	1.7	2.1	3.1	1.2	1.6	---	---	---
10	8.5	6.0	6.8	3.5	2.2	3.0	1.7	0.7	1.1	2.0	1.1	1.5
11	10	7.6	8.9	4.0	2.2	3.0	1.5	0.5	0.9	2.2	1.1	1.4
12	9.2	7.6	8.2	3.6	2.3	2.6	2.5	0.6	0.9	2.1	1.2	1.6
13	13	7.0	8.3	5.7	2.0	2.5	---	---	---	2.5	1.1	1.6
14	12	7.6	9.6	4.6	2.0	2.4	1.3	<0.5	0.6	2.0	1.0	1.3
15	11	7.6	8.9	2.8	1.8	2.3	1.7	<0.5	0.7	2.0	1.0	1.3
16	10	7.2	8.2	2.8	2.2	2.5	1.6	<0.5	0.8	2.5	0.9	1.2
17	7.6	5.9	6.8	4.5	1.9	2.3	1.6	<0.5	0.8	1.8	0.9	1.1
18	6.0	4.2	5.0	5.1	1.7	2.2	1.8	<0.5	0.7	1.8	0.8	1.2
19	4.3	3.9	4.1	4.1	2.0	2.4	1.8	<0.5	0.7	1.6	0.8	1.1
20	5.4	3.9	4.3	2.6	1.9	2.2	1.7	0.5	0.9	1.5	1.0	1.2
21	5.6	3.3	3.7	5.2	2.0	2.5	2.4	0.9	1.3	2.0	0.9	1.4
22	5.0	3.2	3.7	3.0	1.6	2.1	---	---	---	2.1	1.1	1.5
23	4.4	3.5	3.8	2.6	1.6	1.8	---	---	---	2.5	1.2	1.6
24	3.7	2.8	3.2	2.4	1.4	1.6	3.7	1.5	1.9	2.2	1.1	1.5
25	5.0	2.6	3.0	2.6	1.3	1.8	6.4	1.5	2.9	2.2	1.2	1.5
26	3.1	2.2	2.7	3.1	1.5	2.0	3.4	0.8	1.3	1.9	1.1	1.4
27	8.2	2.1	2.8	5.0	1.4	1.9	1.7	0.7	1.0	1.6	1.0	1.2
28	5.3	2.7	3.3	2.9	1.3	1.8	3.6	0.8	1.4	2.7	1.0	1.3
29	3.6	1.7	2.4	2.7	1.4	1.9	1.9	<0.5	0.6	1.5	1.0	1.2
30	2.5	2.0	2.3	3.1	1.5	2.1	1.5	<0.5	0.8	1.5	1.0	1.2
31	---	---	---	3.3	1.9	2.3	---	---	---	---	---	---
Month	21	1.6	5.1	5.7	1.3	2.3	---	---	---	---	---	---

01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—Continued







01460595 Delaware & Raritan Canal at Landing Lane, at New Brunswick, NJ—Continued