

New Hampshire Volunteer River Assessment Program  
2020 Pemigewasset River Watershed Data

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES



	Measurements not meeting New Hampshire surface water quality standards
	Measurements not meeting NHDES quality assurance/quality control standards

<sup>A</sup> Specific conductance > 835  $\mu\text{S}/\text{cm}$  indicates exceedance of chronic chloride standard of 230 mg/L

<sup>B</sup> Chronic water quality standard

**23-PMI, Pemigewasset River, Route 175 Bridge, Woodstock, NHDES Trend Station**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>230<sup>B</sup></b>
06/15/2020	10:15	11.06	105.4	5.72	0.14	55.9	13.2	10.80
07/13/2020	10:15	8.89	97.6	6.10	0.15	38.1	19.3	5.81
08/10/2020	10:15	9.53	103.7	6.44	0.09	61.2	19.4	10.90

**21-PMI, Pemigewasset River, Memorial Bridge, Thornton**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>230<sup>B</sup></b>
06/23/2020	9:30	6.84	88.0	5.95	0.40	70.0	22.4	
07/17/2020	9:15	8.41	88.4	5.76	0.34	40.2	17.0	9.01
07/28/2020	9:08	7.48	84.9	5.77	0.37	68.9	22.8	
08/11/2020	9:25	6.21	75.2	5.82	0.44	75.0	22.3	13.80
08/25/2020	9:15	7.62	85.3	6.04	0.72	81.9	21.5	18.70
09/08/2020	9:04	8.10	86.0	5.73	0.64	80.2	17.7	

**03G-MAD, Mad River, Route 49 Bridge, Thornton**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>230<sup>B</sup></b>
06/23/2020	10:00	7.91	93.0	6.11	0.19	63.0	21.5	
07/17/2020	9:45	9.47	92.5	6.06	0.07	39.2	15.2	6.47
07/28/2020	10:08	7.61	86.2	5.97	0.18	48.8	20.7	
08/11/2020	9:45	8.63	93.1	6.19	0.12	73.6	20.8	
08/25/2020	9:35	9.16	98.2	6.25	0.11	62.4	19.3	
09/08/2020	9:47	9.50	99.0	6.19	0.25	58.3	15.8	

**18-PMI, Pemigewasset River, Blair Bridge, Campton**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>230<sup>B</sup></b>
06/23/2020	8:45	6.92	84.0	6.03	0.44	89.0	23.4	
06/23/2020	8:55	7.02	84.6	6.02	0.34	86.6	23.4	
07/17/2020	8:50	8.03	76.8	5.83	0.41	46.7	18.1	
07/28/2020	8:40	6.99	78.2	5.76	0.56	81.8	24.1	
08/11/2020	8:50	7.20	82.1	5.95	0.48	83.5	22.9	17.00
08/25/2020	8:40	7.61	86.0	5.98	0.73	107.5	21.5	23.20
09/08/2020	8:37	8.20	86.0	5.74	0.54	109.3	17.4	

**15-PMI, Pemigewasset River, Holderness Road Bridge, Plymouth**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>
06/23/2020	8:05	7.31	84.0	6.28	0.49	95.8	23.2
07/17/2020	8:05	7.35	79.7	6.02	0.90	59.5	18.8
07/28/2020	8:05	7.22	87.4	6.33	0.73	88.2	24.4
08/11/2020	8:15	6.90	80.2	6.11	0.68	98.6	23.1
08/25/2020	8:10	6.52	74.7	6.28	0.68	115.6	22.1
09/08/2020	8:08	8.22	87.2	6.22	0.78	117.5	17.9

**11A-PMI, Pemigewasset River, Sahegenet Falls, Bridgewater**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>230<sup>B</sup></b>
06/24/2020	10:35	6.71	80.7	5.95	0.71	105.0	24.6	
07/15/2020	11:50	8.78	96.0	5.76	2.40	36.4	19.7	5.97
07/29/2020	11:00	7.61	91.2	6.22	1.01	99.5	24.4	
08/12/2020	11:10	7.63	94.2	6.26	0.87	111.3	26.1	20.70
08/25/2020	11:10	8.75	98.3	6.47	1.14	126.8	21.0	25.80
09/09/2020	10:50	8.60	101.6	6.51	0.94	131.0	22.8	

**01-NFD, Newfound River, Route 104 at Pleasant Street Bridge, Bristol**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>
06/24/2020	8:52	8.16	92.1	5.97	0.32	61.1	21.3
07/15/2020	8:50	7.59	88.8	6.15	0.51	48.1	23.2
07/29/2020	8:45	7.34	86.0	6.09	0.48	56.4	23.3
08/12/2020	8:55	7.16	85.3	6.02	0.24	56.2	24.1
08/25/2020	8:50	7.84	84.9	5.98	0.21	59.5	19.2
09/09/2020	8:50	8.60	94.0	6.15	0.25	59.1	19.7

**09A-PMI, Pemigewasset River, Mooney-Clark, Bristol**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 µS/cm<sup>A</sup></b>	<b>NA</b>	<b>230<sup>B</sup></b>
06/24/2020	9:45	7.80	96.3	6.08	1.23	113.9	26.3	
07/15/2020	11:00	8.17	92.1	5.80	3.4	46.7	21	8.11
07/15/2020	11:15	8.19	92.9	5.67	3.1	47.0	22	
07/29/2020	10:25	7.75	98.3	6.33	0.99	84.5	27.6	
08/12/2020	10:30	7.75	98.4	6.27	1.17	94.4	27.7	17.70
08/25/2020	10:25	8.54	99.8	6.38	1.17	128.1	23.1	25.40
09/09/2020	10:15	8.40	99.5	6.60	1.40	127.0	23.7	

**07-PMI, Pemigewasset River, Old Bristol Road Bridge off Central St, Bristol**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 µS/cm<sup>A</sup></b>	<b>NA</b>
06/24/2020	9:15	8.62	98.3	6.12	1.19	100.9	21.8
07/15/2020	9:14	7.55	89.4	6.11	1.61	71.7	23.8
07/29/2020	9:10	7.44	89.1	6.07	0.85	87.8	24.4
08/12/2020	9:20	7.73	91.1	6.11	1.05	93.9	23.6
08/25/2020	9:15	7.50	84.9	6.15	1.05	117.9	21.4
09/09/2020	9:15	8.09	90.0	6.25	1.01	126.5	20.5

**00M-SMT, Smith River, Bridge Downstream of Profile Falls, Bristol**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835 µS/cm<sup>A</sup></b>	<b>NA</b>
06/24/2020	8:15	8.10	95.0	6.89	0.98	128.2	23.1
07/15/2020	8:15	7.85	87.1	6.78	1.50	104.2	20.4
07/29/2020	8:10	8.24	94.7	6.56	0.98	127.6	22.3
08/12/2020	8:15	7.96	93.7	6.53	0.58	140.8	23.5
08/25/2020	8:15	8.32	87.9	6.54	0.47	147.0	18.0
09/09/2020	8:13	8.90	94.0	6.70	0.45	129.7	18.3

