

New Hampshire Volunteer River Assessment Program  
2020 Isinglass 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  $\mu\text{S}/\text{cm}$  indicate exceedance of chronic chloride standard of 230 mg/L

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

<sup>C</sup> Calculated using 1/2 of the 0.050 mg/L detection limit of Nitrate+Nitrite (0.025 mg/L)

**11-ISG: Isinglass River, Strafford (Route 202A Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)	Total Phosphorus
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>&lt;230 mg/L<sup>B</sup></b>	<b>Narrative</b>
07/12/2020	10:25	6.74	81.4	6.35	74.0	24.8	17	0.017

**08-ISG: Isinglass River, Barrington (Route 126 Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	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>835 <math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>
07/12/2020	09:59	6.07	73.3	6.23	79.1	25.3

**07T-ISG: Isinglass River, Barrington (Route 126) - NHDES Trend Site**

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>&lt;230 mg/L<sup>B</sup></b>
02/12/2020	09:15	15.64	108.4	6.14	0.39	88.8	0.5	14
06/18/2020	09:40	6.72	73.2	5.82	1.16	106.5	19.5	27
07/16/2020	09:20	7.12	81.1	6.18	1.76	91.1	20.7	21
08/13/2020	09:30	5.23	61.1	5.97	0.92	60.1	23.1	33

Date	Time of Sample	Total Phosphorus	Total Kjeldahl Nitrogen (TKN) (mg/L)	Nitrite ( $\text{NO}_2$ ) + Nitrate ( $\text{NO}_3$ ) (mg/L)	Total Nitrogen (mg/L)
<b>Standard</b>	<b>NA</b>	<b>Narrative</b>	<b>Narrative</b>	<b>Narrative</b>	<b>Narrative</b>
02/12/2020	09:15	0.009	ND	0.06	0.19 <sup>C</sup>
06/18/2020	09:40	0.066	0.68	ND	0.71 <sup>C</sup>
07/16/2020	09:20	0.028	0.34	ND	0.37 <sup>C</sup>
08/13/2020	09:30	0.031	0.51	ND	0.54 <sup>C</sup>

**07-ISG: Isinglass River, Barrington (Route 202 Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835 µS/cm <sup>A</sup>	NA
07/12/2020	09:45	7.27	88.5	6.34	94.7	25.4

**04-ISG: Isinglass River, Barrington (Green Hill Road Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphous
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835 µS/cm <sup>A</sup>	NA	<230 mg/L <sup>B</sup>	Narrative
07/12/2020	09:25	7.33	89.7	6.52	113.9	25.3	31	0.024

**03-ISG: Isinglass River, Rochester (Route 125 Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphous
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835 µS/cm <sup>A</sup>	NA	<230 mg/L <sup>B</sup>	Narrative
07/12/2020	09:05	5.87	70.9	6.21	135.3	25.0	35	0.029

**02-ISG: Isinglass River, Rochester (Rochester Neck Road Bridge) - NHDES Trend Site**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	<230 mg/L <sup>B</sup>
02/12/2020	10:10	15.30	105.2	6.31	0.63	109.9	0.2	21
06/18/2020	10:40							39
07/12/2020	08:35	6.22	82.1	6.29		158.4	24.8	
07/16/2020	10:30	7.14	79.9	6.38	3.21	147.7	20.7	40
08/13/2020	11:00	5.72	66.4	6.32	2.39	198.1	23.4	44

Date	Time of Sample	Total Phosphous	Total Kjeldahl Nitrogen (TKN) (mg/L)	Nitrite (NO <sub>2</sub> ) + Nitrate (NO <sub>3</sub> ) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
02/12/2020	10:10	0.009	ND	0.09	0.22 <sup>C</sup>
06/18/2020	10:40	0.025	0.37	0.17	0.54 <sup>C</sup>
07/16/2020	10:30	0.032	0.33	0.12	0.45 <sup>C</sup>
08/13/2020	11:00	0.019	0.25	0.08	0.33 <sup>C</sup>

