

# 2015 ISINGLASS RIVER WATERSHED VRAP DATA

	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 0.25 mg/L detection limit of Total Kjeldahl Nitrogen (0.125 mg/L) and/or 1/2 of the 0.050 mg/L detection limit of Nitrate+Nitrite (0.025 mg/L)

## 11-ISG, Isinglass River, Route 202A Bridge, Strafford

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)	Total Phosphorus
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}$ <sup>A</sup>	NA	<230 mg/L <sup>B</sup>	Narrative
05/31/2015	10:10	6.74	76.3		1.5	64.1	21.3		
07/12/2015	10:25	8.69	104.1	6.20	1.0	57.5	24.6	10	0.007
08/30/2015	10:35	9.02	102.8	6.54	0.1	64.7	21.9	11	0.007

## 08-ISG, Isinglass River, Route 126 Bridge, Barrington

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}$ <sup>A</sup>	NA
05/31/2015	09:55	6.15	71.6		2.8	94.9	23.0
07/12/2015	09:55	6.61	76.5	5.74	3.4	78.0	23.0
08/30/2015	10:15	7.70	87.1	5.84	1.2	86.7	21.7

**07T-ISG, Isinglass River, Route 126, Barrington - 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)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<230 mg/L <sup>B</sup>	<406
04/09/2015	09:00	14.07	99.2	5.51	0.5	72.1	1.2	15	<10
06/23/2015	09:40	6.49	72.1	6.21	1.7	90.6	20.5	18	210
07/27/2015	09:15	7.64	85.5	6.45	1.4	102.5	21.0	21	20
08/25/2015	09:30	6.18	71.8	6.38	1.5	103.8	22.9	22	50

Date	Time of Sample	Total Phosphous	Total Kjehldahl 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
04/09/2015	09:00	0.010	<0.25	0.06	0.185 <sup>C</sup>
06/23/2015	09:40	0.030	0.57	<0.05	0.595 <sup>C</sup>
07/27/2015	09:15	0.022	0.76	0.10	0.857
08/25/2015	09:30	0.019	0.44	<0.05	0.465 <sup>C</sup>

**07-ISG, Isinglass River, Route 202 Bridge, Barrington**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA
05/31/2015	09:35	6.83	79.4		1.9	114.4	22.7
07/12/2015	09:25	7.55	87.8	6.15	2.4	91.0	22.8
08/30/2015	09:45	8.66	96.7	6.45	1.2	99.5	21.0

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus
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>	Narrative
05/31/2015	09:20	7.36	85.5		1.5	127.4	22.8		
07/12/2015	09:00	8.04	94.5	6.29	2.3	97.4	23.5	22	0.024
08/30/2015	09:22	9.11	100.7	6.38	0.8	107.2	20.5	24	0.019

**03-ISG, Isinglass River, Route 125 Bridge, Rochester**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus
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>	Narrative
05/31/2015	09:00	6.10	70.5		2.3	142.0	22.8		
07/12/2015	08:45	6.64	78.3	6.05	3.1	108.2	24.0	24	0.023
08/30/2015	09:00	6.89	77.1	6.28	0.1	138.7	20.7	34	0.025

**02-ISG, Isinglass River, Rochester Neck Road Bridge, Rochester - 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)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<230 mg/L <sup>B</sup>	<406
04/09/2015	09:40	14.17	101.3	5.80	1.2	90.0	1.6	20	10
05/31/2015	08:35	6.02	68.9		3.8	157.2	22.1		
06/23/2015	10:15	7.94	89.1	6.61	2.2	132.7	21.0	29	120
07/12/2015	08:35	7.90	90.6	6.15	3.6	109.0	22.2		
07/27/2015	10:20	7.79	85.6	6.44	3.6	159.0	19.9	33	10
08/25/2015	10:25	6.95	78.9	6.48	2.4	177.8	21.6	43	120
08/30/2015	08:35	6.96	77.1	6.28	0.5	157.0	24.4		

Date	Time of Sample	Total Phosphous	Total Kjehldahl Nitrogen (TKN) (mg/L)	Nitrite ( $\text{NO}_2$ ) + Nitrate ( $\text{NO}_3$ ) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
04/09/2015	09:40	0.012	<0.25	0.08	0.20 <sup>C</sup>
06/23/2015	10:15	0.027	0.36	0.08	0.44
07/27/2015	10:20	0.027	0.63	0.13	0.76
08/25/2015	10:25	0.027	0.37	0.08	0.45