

2017 ISINGLASS RIVER WATERSHED VRAP DATA

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

^A Specific conductance > 835 µS/cm indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

^C 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 (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 ^A	NA	<230 mg/L ^B	Narrative
06/04/2017	10:40	9.65	100.8	6.36	0.97	52.1	17.5		
07/16/2017	10:25	7.78	89.9	6.05	0.68	63.0	22.6	11	0.012
08/13/2017	10:30	8.70	98.2	6.26	0.68	72.5	21.6	15	0.013
09/13/2017	13:20	8.85	98.9	6.81		71.6	20.8		
09/25/2017	12:30	8.13	92.6	6.53		80.4	21.8		

08-ISG, Isinglass River, Route 126 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 ^A	NA
06/04/2017	10:18	8.60	85.9	6.07	0.78	68.4	15.0
07/16/2017	10:07	7.32	81.7	5.81	1.85	82.0	20.7
08/13/2017	10:09	6.79	77.7	6.26	0.93	99.4	22.2

07T-ISG, Isinglass River, Route 126, Barrington - 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)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<230 mg/L ^B	<406	<126
02/14/2017	10:15	13.96	95.9	5.45	0.40	95.0	0.2	18		
06/22/2017	9:30	7.02	78.4	6.27	1.61	88.5	20.8	20	160	
07/20/2017	9:00	6.51	77.2	6.14	1.67	102.8	23.8	62	30	
08/17/2017	9:10	6.26	67.6	5.91	0.87	106.0	19.1	32	20	46

Date	Time of Sample	Total Phosphorus	Total Kjeldahl Nitrogen (TKN) (mg/L)	Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
02/14/2017	10:15	0.008	<0.25	0.05	0.18 ^C
06/22/2017	9:30	0.028	0.45	<0.05	0.48 ^C
07/20/2017	9:00	0.024	0.46	0.05	0.51
08/17/2017	9:10	0.016	0.28	<0.05	0.31 ^C

07-ISG, Isinglass River, Route 202 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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
06/04/2017	9:48	9.34	95.3	6.21	0.97	73.7	15.8
07/16/2017	9:50	8.90	100.9	6.55	1.92	95.0	21.0
08/13/2017	9:53	8.28	93.4	6.35	0.78	121.3	21.3

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	Chloride (mg/L)	Total Phosphous
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 ^B	Narrative
06/04/2017	9:25	9.38	92.3	6.31	1.16	79.4	14.9		
07/16/2017	9:25	8.17	90.9	6.37	1.58	106.0	20.8	23	0.025
08/13/2017	9:20	8.32	93.3	6.25	0.63	159.1	21.0	44	0.016

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

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 Phosphous
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 ^B	Narrative
06/04/2017	9:03	9.22	92.2	6.21	0.68	86.6	15.2		
07/16/2017	9:05	7.81	87.6	6.33	2.39	122.0	20.9	27	0.028
08/13/2017	9:00	7.35	83.7	6.13	1.86	175.9	21.8	46	0.019

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 (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<230 mg/L ^B	<406	<126
02/14/2017	11:00	14.86	102.8	5.82	0.54	116.9	0.3	23		
06/04/2017	8:40	10.70	106.8	6.33	0.42	91.9	15.8			
06/22/2017	10:30	7.86	89.1	6.59	2.26	110.3	21.5	30	60	
07/16/2017	8:35	8.80	87.3	6.23	2.59	143.0	19.2			
07/20/2017	10:25	6.74	79.3	6.31	3.56	160.1	23.5	37	110	
08/13/2017	8:35	7.29	80.8	6.31	3.17	197.7	20.7			
08/17/2017	9:45	6.68	72.1	6.05	3.83	209.5	19.0	58	140	97

Date	Time of Sample	Total Phosphorus	Total Kjeldahl Nitrogen (TKN) (mg/L)	Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
02/14/2017	11:00	0.014	<0.25	0.08	0.21 ^C
06/22/2007	10:30	0.029	0.40	0.05	0.45
07/20/2017	10:25	0.031	0.43	0.13	0.56
08/17/2017	9:45	0.020	<0.25	0.12	0.25 ^C