
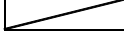


New Hampshire Volunteer River Assessment Program
2019 Isinglass River Watershed Data

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES



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

- ^A Specific conductance > 835 $\mu\text{S}/\text{cm}$ indicate exceedance of chronic chloride standard of 230 mg/L
^B Chronic water quality standard
^C Calculated using 1/2 of the 0.050 mg/L detection limit of Nitrate+Nitrite (0.025 mg/L)

12-ISG, Isinglass River, Province Road Bridge, Strafford

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
05/19/2019	11:59	9.80	97.2	6.53	0.69	58.3	15.1

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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<230 mg/L ^B	Narrative
06/30/2019	11:19	6.62	77.4	6.19	0.49	62.9	23.2	13	0.008
08/04/2019	10:28	5.65	64.8	6.16	2.14	73.9	22.3	15	0.017
09/15/2019	10:57	7.93	81.5	6.14	1.12	70.2	16.9	18	0.009

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 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
05/19/2019	11:34	9.35	92.8	6.01	1.46	72.4	15.0
06/30/2019	10:55	7.48	84.9	6.11	1.96	73.4	21.8
08/04/2019	10:12	6.48	74.5	5.94	2.49	86.8	22.5
09/15/2019	10:33	7.22	73.5	5.86	2.18	97.7	16.3

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)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	<230 mg/L ^B
01/10/2019	10:45			6.15		74.8	0.3			19
01/25/2019	10:20			6.01	3.23	78.3				21
02/04/2019	10:00			6.08	1.54	74.3				18
02/21/2019	11:16			6.06		77.9				21
03/12/2019	10:50			6.03		101.9				22
04/02/2019	09:30			5.98		61.9				14
04/17/2019	09:30			5.90		67.3				17
06/19/2019	09:15	7.76	84.0	5.95	1.24	50.2	19.2	85		18
07/18/2019	08:15	6.03	70.6	6.18	1.65	87.1	23.2	30		20
08/14/2019	09:00	6.60	74.3	6.26	1.66	93.2	21.2	211	81	19
10/17/2019	09:30	9.42	86.4	5.76	1.31	83.8	11.8			19

Date	Time of Sample	Total Phosphous	Total Kjehldahl Nitrogen (TKN) (mg/L)	Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
06/19/2019	09:15	0.022	0.31	ND	0.34 ^C
07/18/2019	08:15	0.027	0.43	ND	0.46 ^C
08/14/2019	09:00	0.022	0.36	ND	0.39 ^C
10/17/2019	09:30	0.021	0.26	ND	0.29 ^C

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 ^A	NA
05/19/2019	11:16	9.80	98.3	6.23	1.34	76.4	15.5
06/30/2019	10:40	7.83	89.9	6.28	1.47	81.3	22.3
08/04/2019	09:57	8.44	96.4	6.39	1.54	99.8	22.1
09/15/2019	10:15	9.76	97.6	6.52	1.06	109.7	15.8

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 Phosphous
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
05/19/2019	10:55	9.51	94.2	6.35	1.83	81.8	15.0		
06/30/2019	10:15	8.02	92.7	6.31	0.96	89.2	22.5	22	0.023
08/04/2019	09:33	5.20	96.9	6.46	1.47	98.7	22.4	26	0.021
09/15/2019	09:55	10.02	101.1	6.48	0.84	132.6	15.9	39	0.014

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^A	NA	<230 mg/L^B	Narrative
06/30/2019	09:57	7.22	82.8	6.27	2.66	99.9	22.1	24	0.030
08/04/2019	09:15	6.37	73.6	6.17	3.51	117.8	22.5	28	0.028
09/15/2019	09:40	8.17	82.7	6.15	2.44	134.3	16.1	41	0.019
05/19/2019	10:33	9.35	92.1	6.21	1.96	89.1	14.8		

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)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	<406	<126	<230 mg/L^B
05/19/2019	10:15	9.83	97.4	6.23	1.50	96.5	15.0			
06/19/2019	10:20	8.54	92.8	6.30	1.94	114.7	19.4	98		25
06/30/2019	09:42	8.51	97.0	6.35	5.31	116.4	21.9			
07/18/2019	09:40	7.34	84.6	6.57	3.79	123.8	22.4	31		32
08/04/2019	08:53	7.29	82.9	6.22	2.81	145.5	21.8			
08/14/2019	10:10	6.94	77.9	6.30	3.38	178.9	21.0	145	76	38
08/22/2019	09:50	8.20	93.0	6.37	5.20	139.0	21.5			
09/15/2019	09:15	10.33	101.6	6.41	1.86	161.9	15.2			
10/17/2019	10:30	8.57	77.7	5.87	5.86	136.4	11.4			31

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
06/19/2019	10:20	0.022	0.31	0.08	0.39
07/18/2019	09:40	0.031	0.33	0.08	0.41
08/14/2019	10:10	0.024	0.28	0.08	0.36
10/17/2019	10:30	0.047	0.38	ND	0.41 ^C

