

New Hampshire Volunteer River Assessment Program
2019 Bellamy 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 µS/cm indicates 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)

15-BLM, Bellamy River, Hall Road Bridge, Barrington, Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA
06/22/2019	10:40	7.24	80.5	6.05	0.23	126.9	21.0

12-BLM, Bellamy River, Pierce Road Bridge, Barrington, Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA
06/22/2019	10:20	8.08	87.1	6.01	1.26	130.7	19.2

10-BLM, Bellamy River, Nute Road Bridge, Barrington, Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA
06/22/2019	09:50	5.65	58.8	5.83	1.35	132.4	17.4

01-MLD, Madla Brook, Young Road Bridge, Barrington, Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA
06/22/2019	11:00	7.32	80.9	5.88	0.21	186.0	21.2

02-MLG, Mallego Brook, Route 9, Barrington, Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA
06/22/2019	11:20	7.54	87.3	5.97	1.27	251.1	17.1

08-BLM, Bellamy River, Mill Hill Road Bridge, Madbury, Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA
06/22/2019	09:25	8.52	95.2	6.36	0.39	146.8	20.9

07-BLM, Bellamy River, Knox Marsh Road Bridge, Madbury, Class A - NHDES Trend Monitoring Station

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	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	835µS/cm ^A	NA	<153	<126	230 ^B
01/10/2019	11:30			6.39		134.6	2.8			31
01/25/2019	12:05			6.24	7.79	142.1				38
02/04/2019	10:45			6.46	1.58	148.5				41
02/21/2019	12:00			6.45		151.0				39
03/12/2019	11:30			6.48		167.1				36
04/02/2019	10:05			6.34		133.5				32
04/17/2019	10:15			6.52		110.1				29
06/19/2019	11:10	7.43	82.1	6.39	1.47	157.9	20.1	20		36
06/22/2019	09:05	7.84	85.3	6.41	0.86	145.2	19.3			
07/18/2019	10:45	7.24	85.1	6.72	2.40	152.3	23.4	31		42
08/14/2019	10:50	7.26	81.5	6.65	2.59	163.8	20.8	97	39	38
08/22/2019	10:45	7.00	81.0	6.28	4.43	171.7	22.9			
10/17/2019	11:10	8.68	80.2	6.10	5.42	123.9	11.8			25

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate(NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
06/18/2019	13:30	0.022	0.35	0.07	0.42
06/19/2019	11:10	0.022	0.41	0.07	0.48
07/18/2019	10:45	0.025	0.36	0.12	0.48
08/06/2019	10:45	0.023	0.32	0.12	0.44
08/14/2019	10:50	0.022	0.33	0.11	0.44
10/17/2019	11:10	0.059	0.53	ND	0.56 ^C

06-BLM, Bellamy River, Bellamy Road Bridge, Dover, Class B

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
06/22/2019	08:40	8.71	93.7	6.62	1.61	172.2	18.8

05-BLM, Bellamy River, Route 108 Bridge, Dover, Class B

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
06/22/2019	08:20	9.07	96.6	6.67	2.36	197.1	18.5



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