

New Hampshire Volunteer River Assessment Program
2020 Warner 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 0.25 mg/L detectin limit of Total Kjeldahl Nitrogen (0.125 mg/L)

15-ADW: Andrew Brook, Newbury (Mountain Road)

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
06/27/2020	11:40	6.66	71.0	6.14	0.42	42.2	18.4
07/24/2020	11:45	8.89	94.2	5.47	0.69	20.4	18.8
08/23/2020	10:40	7.07	74.8	6.26	0.66	36.9	18.1

04-ADW: Andrew Brook, Newbury (Sutton Road)

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
06/27/2020	11:55	4.83	53.4	5.94	2.07	95.4	20.2
07/24/2020	12:00	6.99	78.7	5.71	1.67	48.3	20.6
08/23/2020	10:55	5.72	62.1	6.70	1.20	115.0	19.2

TODNBYO: Andrew Brook, Bradford (Todd Lake Outlet) - NHDES VLAP Station

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
06/27/2020	11:10	5.36	64.0	6.23	0.55	58.2	24.2
07/24/2020	11:15	5.59	67.8	6.02	0.46	60.4	25.8
08/23/2020	10:15	5.40	62.8	6.51	0.41	62.3	23.1

01-WBW: West Branch Warner River, Bradford (Water Street)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	11:20	7.87	83.7	6.54	0.44	72.9	18.0
07/24/2020	11:30	6.99	77.1	6.17	0.79	61.4	19.7
08/23/2020	10:25	8.36	87.7	6.76	0.42	82.9	17.5

01-HOY: Hoyt Brook, Bradford (Jones Street Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	10:55	8.09	85.1	6.50	0.35	80.5	17.4
07/24/2020	11:05	7.29	80.1	6.07	0.71	57.3	19.9
08/23/2020	10	7.59	78.4	6.65	0.25	95.3	17.1

11F-WNR: Warner River, Warner (Breezy Hill Road)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	10:40	4.25	48.2	5.98	1.49	83.2	21.7
07/24/2020	10:55	4.66	53.0	5.60	1.48	84.0	21.7
08/23/2020	9:35	4.85	53.7	6.17	1.17	99.8	20.3

10-WNR: Warner River, Bradford (Melvin Mills Road) - NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/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 ^A	NA	230 ^B
06/22/2020	14:50	6.64	79.9	6.32	0.62	67.6	24.7	13
07/20/2020	13:45	6.19	75.2	6.04	0.89	75.7	25.2	15
08/17/2020	12:40	7.24	80.1	6.11	0.87	110.1	20.4	22

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	NA	NA	NA	NA
06/22/2020	14:50	0.014	ND	ND	
07/20/2020	13:45	0.015	ND	0.06	0.19 ^C
08/17/2020	12:40	0.018	ND	0.09	0.22 ^C

02-TSL: Thistle Brook, Sutton (Main Street)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	12:10	5.51	56.6	6.07	0.48	372.8	16.6
07/24/2020	12:25	7.74	83.6	6.20	1.08	227.0	19.1
08/23/2020	11:15	5.54	56.3	6.22	2.04	352.1	16.3

02-LNE: Lane River, Warner (Roby Road)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	10:20	7.46	79.0	6.23	0.43	155.2	18.3
07/24/2020	10:25	7.59	85.7	6.13	0.94	120.3	21.6
08/23/2020	9:20	6.92	71.4	6.68	0.27	138.7	17.0

01-XS4: Unnamed Stream, Sutton (Kearsarge Regional High School)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	12:30	8.42	85.8	6.30	3.67	41.4	16.3
07/24/2020	12:40	7.90	84.6	6.23	0.45	43.4	18.6
08/23/2020	11:35	7.09	74.0	6.52	1.11	50.4	17.3

10-STV: Stevens Brook, Warner (North Road)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	12:50	7.67	81.4	6.50	0.51	184.4	18.2
07/24/2020	12:55	7.86	88.6	6.51	1.92	226.6	21.3
08/23/2020	11:55	7.66	84.5	6.80	0.18	235.8	20.0

02-STV: Stevens Brook, Warner (Route 103)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	13:05	7.48	80.7	6.34	0.17	153.0	19.3
07/24/2020	13:10	6.97	79.2	6.42	1.11	232.4	21.7
08/23/2020	12:05	7.98	90.7	6.49	0.25	279.6	21.7

05-WNR: Warner River, Warner (Joppa Road Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	9:40	6.12	68.1	6.16	0.55	147.7	20.3
07/24/2020	10:05	8.84	77.3	6.01	0.95	121.9	21.9
08/23/2020	9:05	6.10	67.6	6.36	0.68	216.2	20.3

03-WNR: Warner River, Davisville (Dustin Road/Route 127 Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	9:15	5.57	62.1	6.50	1.15	165.5	21.3
07/24/2020	9:45	6.35	72.5	6.02	1.07	140.4	21.8
08/23/2020	8:45	5.80	64.9	6.30	0.88	215.4	20.6

01-WNR: Warner River, Hopkinton (Deer Path Road)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm ^A	NA
06/27/2020	8:55	5.45	60.4	6.57	1.05	166.7	20.5
07/24/2020	9:30	6.26	70.8	6.14	0.06	165.2	21.6
08/23/2020	8:30	5.78	63.6	6.54	0.72	210.0	19.8



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