

New Hampshire Volunteer River Assessment Program
2021 Contoocook 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 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)

30M-CTC: Contoocook River, Peterborough (Sharon Road Bridge)

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
06/17/2021	8:57	9.04	93.2	6.55	1.50	88	16.8
07/01/2021	8:40	8.08	91.0	7.02	1.26	109	21.2
07/15/2021	8:40	8.47	92.9	5.93	1.10	62	19.8
07/29/2021	8:32	8.97	98.1	6.37	1.10	75	19.7
08/12/2021	8:36	8.22	95.6	6.13	0.94	73	22.9
08/26/2021	8:45	8.24	95.0	5.93	1.06	57	22.4
09/23/2021	8:48	8.64	92.3	6.35	0.99	70	18.3

30-CTC: Contoocook River, Peterborough (Noone Falls Mill Dam)

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
06/17/2021	8:39	8.55	88.2	6.30	1.50	89	16.9
07/01/2021	8:20	5.29	61.1	6.21	2.63	117	22.4
07/15/2021	8:15	8.18	89.5	5.90	1.12	62	19.7
07/29/2021	8:14	8.22	89.4	6.19	1.09	75	19.4
08/12/2021	8:20	8.05	93.5	5.97	1.07	74	22.8
08/26/2021	8:20	8.03	92.4	5.96	1.35	58	22.3
09/23/2021	8:35	8.29	88.2	6.03	1.08	69	18.4

27W-CTC, Contoocook River, Main Street Bridge, Peterborough

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
06/17/2021	8:18	9.37	97.5	6.56	1.54	85	17.4
07/01/2021	7:55	6.65	79.3	6.74	1.82	108	24.2
07/15/2021	7:57	8.52	93.7	5.88	1.19	47	20.0
07/29/2021	7:57	8.52	93.9	6.35	1.55	58	20.1
08/12/2021	8:02	8.27	97.3	6.26	1.06	70	23.5
08/26/2021	8:50	8.57	98.9	5.87	1.13	43	22.8
09/23/2021	0:34	8.79	94.1	6.36	1.09	64	18.6

26-CTC: Contoocook River, Peterborough (Route 202/136 Bridge)

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
07/01/2021	7:30	6.86	83.7	6.80	1.82	114	25.4
07/15/2021	7:30	8.43	92.5	6.27	0.97	47	19.9
07/29/2021	7:27	8.25	91.0	6.29	1.50	60	20.1
08/12/2021	7:32	7.87	92.7	6.36	1.07	74	23.5
08/26/2021	7:30	8.17	94.6	5.80	1.10	46	22.7
09/23/2021	7:40	8.58	91.8	6.46	1.09	66	18.6

24-CTC: Contoocook River, Bennington (Route 31/Pierce Hill Bridge)

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
10/22/2021	9:10	10.06	98.1	6.34	1.17	66	14.2

23-CTC: Contoocook River, Bennington (Monadnock Paper Mill Bridge)

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
10/22/2021	9:31	10.07	98.7	6.58	1.11	67	14.3

22-CTC: Contoocook River, Bennington (Depot Street Bridge)

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
10/22/2021	8:40	9.87	96.1	6.63	1.13	70	14.2

20-CTC: Contoocook River, Deering (2nd NH Turnpike)

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
10/22/2021	8:02	10.17	97.9	6.25	1.44	70	13.6

02-CTC: Contoocook River, Penacook (East Street Bridge) - NHDES Trend 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	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	<406	<126	230^B
01/13/2021	9:30			6.52	0.61	81	0.0			14
02/17/2021	9:20	13.56	93.0	6.56	0.50	92	0.0			15
03/18/2021	9:15	13.63	97.4	6.54	0.88	83	1.6			21
04/06/2021	9:25	11.04	90.1	6.49	0.50	67	6.8			15
05/11/2021	9:10			6.57	0.59	73	13.6			14
06/23/2021	10:45	8.66	99.5	6.98	0.45	105	22.2	52		19
07/16/2021	10:15	8.96	102.6	6.32	1.45	57	22.0	86		11
08/10/2021	10:50	6.94	81.0	6.33	0.62	76	23.0	52	61	14
09/21/2021	10:15	8.66	93.1	6.51	1.04	66	18.9			13
10/26/2021	9:45	10.34	94.6	6.85	0.52	83	11.4			12

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
04/06/2021	9:25	0.011	ND	ND	
06/23/2021	10:45	0.022	0.310	0.100	0.410
07/16/2021	10:15	0.028	0.440	0.085	0.525
08/10/2021	10:50	0.019	0.310	0.120	0.430



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