New Hampshire Volunteer River Assessment Program

2021 Winnisquam Lake Tributaries 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

WICMEREC02: Mill Brook, Meredith (Lake Wicwas Outlet)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	13:45	5.03	57.4	6.04	1.07	60	21.7		0.018
07/15/2021	10:20	7.11	83.8	6.05	0.42	112	22.1	31	0.015
08/25/2021	12:40	6.67	82.4	5.90	2.44	116	25.7		0.313
10/07/2021	10:30	8.44	81.0	5.59	~~1.86~~	~~94~~	13.9		0.033

03-CLNS: Collins Brook, Meredith (Sanctuary Lane)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	13:30	6.50	70.8	6.38	0.34	163	18.7		0.014
07/15/2021	10:01	8.03	93.2	6.50	0.16	159	20.4	47	0.012
08/25/2021	12:53	8.85	102.1	6.40	3.31	131	23.8	27	0.007
10/07/2021	10:17	10.51	99.3	5.13	0.62	132	13.2	36	0.010

WINPLACB: Black Brook, Sanbornton

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	10:10	6.22	64.5	6.18	0.80	134	16.9		0.013
07/15/2021	10:50	7.35	80.4	5.79	0.80	121	19.0	27	0.020
08/25/2021	10:50	7.11	80.2	5.89	0.42	111	25.3		0.012
10/07/2021	11:06	8.63	86.4	6.07	~~0.87~~	~~109~~	16.3		0.007

WINPLACW: Winnipesaukee River, Laconia (Launching Dock)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)

Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgrd	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	12:48	7.43	79.1	6.53	0.39	106	18.4		0.009
07/15/2021	09:06	8.66	100.6	6.42	0.32	104	22.8	26	0.008
08/25/2021	13:12	8.04	99.7	6.45	0.99	102	26.4		0.007
10/07/2021	09:13	8.57	87.6	5.34	~~0.26~~		17.6		0.011

02-DKB: Durkee Brook, Laconia (Route 3 Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	230[B]	Narrative
06/03/2021	12:48	7.78	79.3	6.60	0.39	469	15.8	103	0.012
07/15/2021	12:05	9.05	94.8	6.66	0.99	463	17.6	129	0.015
08/25/2021	13:32	9.30	102.2	6.72	4.88	233	19.8	11	0.014
10/07/2021	12:40	9.77	92.5	6.01	~~1.98~~	~~505~~	13.8		0.017

WINPLACI-UP: Chapman Brook, Sanbornton (Bay Road Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	11:09	4.35	46.9	5.68	1.08	81	18.5		0.019
07/15/2021	11:08	4.24	47.6	5.66	0.95	82	21.2	16	0.019
08/25/2021	11:33	5.23	59.8	5.64	5.59	82	25.2		0.030
10/07/2021	11:37	7.33	73.3	5.12	~~2.42~~	~~77~~	21.2		0.019

01-JAY: Chapman Brook, Tilton (Jay's Marina)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	11:30	6.45	68.9	6.17	1.16	107	18.3		0.015
07/15/2021	11:17	8.39	99.4	6.08	0.71	107	23.1	26	0.014
08/25/2021	11:44	7.93	94.2	6.43	1.31	107	25.7		0.012
10/07/2021	11:37	8.16	84.5	5.44	~~1.91~~	112	17.7		0.019

WINMBELI-UP: Durgin Brook, Belmont (Mallards Landing)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above backgound	835 µS/cm[A]	NA	<230 mg/L[B]	Narrative
06/03/2021	12:05	6.78	73.6	6.48	0.75	142	19.1		0.031
07/15/2021	11:51	8.69	95.5	6.28	0.72	261	18.6	70	0.019

08/25/2021	13:46	7.26	93.1	6.76	2.00	86	28.7		0.019
10/07/2021	12:22	7.73	82.4	6.05	~~1.57~~	~~65~~	18.8		0.021

WINMBELO: Lake Winisquam Outlet, Tilton (Lochemere Bridge)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	**NA**	**>5.0**	**>75% Daily Average**	**6.5-8.0**	**<10 NTU above backgound**	**835 µS/cm[A]**	**NA**	**<230 mg/L[B]**	**Narrative**
06/03/2021	11:48	7.92	83.2	6.52	0.26	58	17.8	22	0.008
07/15/2021	11:32	8.13	94.2	6.35	1.02	111	23.6	29	0.029
08/25/2021	11:57	7.77	89.3	6.64	0.91	111	26.7	22	0.008
10/07/2021	12:04	8.61	90.1	5.49	~~0.92~~	~~63~~	18.2	25	0.009