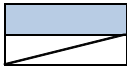


New Hampshire Volunteer River Assessment Program
2019 Nashua River Watershed Data

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)

00T-WKR, Walker Brook, Mason Branch, Route 31, Mason

Date	Time of Sample	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	<835 $\mu\text{S}/\text{cm}$^A	NA
06/15/2019	11:45	77.0	15.0
07/20/2019	08:20	77.0	21.0
08/17/2019	12:00	79.0	18.9
09/21/2019	09:55	80.0	13.9
10/19/2019	13:15	81.0	8.1

00C-WKG, Walker Brook, Greenville Branch, Route 31, Mason

Date	Time of Sample	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	<835 $\mu\text{S}/\text{cm}$^A	NA
06/15/2019	11:50	166.0	14.6
07/20/2019	08:10	267.0	20.9
08/17/2019	12:20	324.0	19.0
09/21/2019	09:55	290.0	13.9
10/19/2019	13:15	296.0	9.1

03K-NIS, Nissitissit River, Brookline

Date	Time of Sample	DO (mg/L)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	<835 $\mu\text{S}/\text{cm}$^A	NA	<406
05/18/2019	07:50	6.50	86.0	12.4	28
06/15/2019	07:45	6.70	105.0	16.8	93
07/20/2019	07:40	3.40	86.0	24.8	127
08/17/2019	07:30	5.40	150.0	20.4	129
09/21/2019	07:30	6.90	195.0	3.6	40
10/19/2019	07:45	6.80	85.0	10.2	99

07-FLT, Flint Brook, French Mill Road near Junction of Rideout Road, Hollis, NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (US/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 US/cm ^A	NA	<406	<126	230 ^B
05/18/2019	07:55	7.40				219.0	11.0	24		
06/15/2019	07:30	6.80				266.0	13.2	64		
06/19/2019	13:15	8.17	85.5	7.15	2.09	268.6	17.7	41	40	48
07/17/2019	12:45	7.82	86.4	6.66	2.55	240.9	19.8	10	30	38
07/20/2019	07:43	3.10				251.0	19.5	108	35	
08/15/2019	11:50	8.88	88.4	6.46	1.89	271.9	15.1	62	41	45
08/17/2019	07:30	7.10				267.0	14.8	138	97	
09/21/2019	07:35	7.30				278.0	11.1	91	92	
10/19/2019	07:55	6.80				272.0	9.2	108		
10/22/2019	00:00	9.54	86.1	6.50	0.26	278.7	10.7			47

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
06/19/2019	13:15	0.029	0.48	0.39	0.87
07/17/2019	12:45	0.037	0.52	0.39	0.91
08/15/2019	11:50	0.030	ND	0.79	0.92 ^C
10/22/2019	00:00	0.008	ND	1.20	1.33 ^C

06-NSH, Nashua River, Upstream of Route 111 Bridge, Hollis, VRAP Trend Station

Date	Time of Sample	<i>E. coli</i> (CTS/100mL)	Chloride (mg/L)	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate(NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	<406	230 ^B	Narrative	Narrative	Narrative	Narrative
06/19/2019	10:35	<10	55	0.033	0.33	0.61	0.94

04A-NSH, Nashua River, Boat Launch at Mine Falls Park, Nashua

Date	Time of Sample	DO (mg/L)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	<835 uS/cm ^A	NA	<406
05/18/2019	08:15	8.10	221.0	12.0	28
06/15/2019	08:10	6.60	279.0	19.0	24
07/20/2019	08:10	3.70	304.0	26.0	35
08/17/2019	08:15				3
09/21/2019	08:10	6.70	402.0	17.0	12
10/19/2019	08:40	2.50	392.0	10.5	248

04AK-NSH, Nashua River, 34 Technology Way, Nashua

Date	Time of Sample	DO (mg/L)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<406
05/18/2019	07:30	8.40	236.0	12.0	29
06/15/2019	07:30	6.80	274.0	18.0	48
07/20/2019	07:36	1.60	334.0	25.0	60
08/17/2019	07:35	6.60	377.0	22.0	33
09/21/2019	07:36	7.10	476.0	16.0	21
10/19/2019	07:36	7.10	420.0	11.0	248

04AA-NSH, Nashua River, Main Street Bridge, Nashua

Date	Time of Sample	DO (mg/L)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>5.0	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<406
05/18/2019	07:15	7.40	99.0	12.5	35
06/15/2019	07:00	6.30	34.1	17.8	41
07/20/2019	07:30	3.80	219.0	25.5	61
08/17/2019	07:10	4.90	377.0	22.6	25
09/21/2019	07:00	7.40	504.0	17.4	31
10/19/2019	07:00	6.10	330.0	11.7	214

