

New Hampshire Volunteer River Assessment Program
2019 Ammonoosuc 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 $\mu\text{S}/\text{cm}$ indicates 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)

29-AMM, Ammonoosuc River, Jefferson/Clinton Rd & Base Rd, Crawford's Purchase

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	Chloride (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	230 ^B
06/04/2019	07:40							<1
06/10/2019	08:20	9.68	85.4	5.81	0.00	11.3	9.9	
07/02/2019	14:34	9.39	92.6	5.94	0.00	11.5	14.9	
09/20/2019	08:45	10.37	88.7	6.08	0.00	12.7	8.6	

27-AMM, Ammonoosuc River, Mount Washington Historic Marker, Carroll

Date	Time of Sample	Total Phosphorus (mg/L)
Standard		Narrative
06/04/2019	07:55	<0.01
07/02/2019	07:30	<0.01

26-AMM, Ammonoosuc River, Route 302 Bridge-Fabyan/Base Station Road, Carroll

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	Chloride (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	230 ^B
06/04/2019	08:00							6
06/10/2019	09:11	9.99	91.8	5.82	0.00	36.8	11.6	
07/02/2019	14:09	8.27	93.8	5.82	0.00	29.3	18.5	
09/20/2019	09:15	11.00	94.8	5.97	0.10	55.1	9.0	

24-AMM, Ammonoosuc River, Route 3 Bridge-Twin Mountain, Carroll

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<406	<126	230 ^B
06/04/2019	08:10							12		6
06/10/2019	09:44	10.26	98.1	6.21	0.35	43.4	13.3			
07/02/2019	13:41	9.10	98.5	6.31	0.10	41.1	19.5			
07/02/2019	07:40							48		
07/30/2019	11:30							20	23	
09/20/2019	09:45	11.51	102.7	6.49	0.06	76.8	10.7			

22-AMM, Ammonoosuc River, Route 302 Bridge-Pierce Bridge, Bethlehem, NHDES Trend Site

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		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
06/20/2019	10:45	9.92	100.9	6.46	3.30	61.5	15.7	<10		11
07/16/2019	10:50	8.94	94.5	6.59	0.37	61.6	17.9	10		11
08/13/2019	11:10	8.24	88.5	7.14	0.46	94.7	19.2	31	12	14
10/15/2019	10:35	12.30	104.0	6.13	0.24	52.3	8.1			8

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO2) + Nitrate(NO3) (mg/L)	Total Nitrogen (mg/L)
Standard		Narrative	Narrative	Narrative	Narrative
06/20/2019	10:45	ND	ND	0.10	0.22 ^C
07/16/2019	10:50	0.006	ND	0.09	0.21 ^C
08/13/2019	11:10	0.014	ND	0.10	0.23 ^C
10/15/2019	10:35	0.006	ND	0.07	0.20 ^C

15J-AMM, Ammonoosuc River, Cottage St. Bridge/Veteran's Memorial Bridge, Littleton

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		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
06/04/2019	08:45							69		11
06/10/2019	10:40	9.65	99.4	6.67	0.25	68.5	16.8			
07/02/2019	08:15							30		
07/02/2019	11:44	9.29	101.6	6.67	0.50	64.2	19.8			
07/30/2019	10:55							41	44	
09/20/2019	10:40	10.76	103.3	7.05	0.54	107.3	13.5			

13-AMM, Ammonoosuc River, Streeter Pond Road Bridge, Lisbon

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		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	230 ^B	Narrative
06/04/2019	09:10							17	<0.01
06/10/2019	11:17	8.54	91.2	7.27	0.20	88.4	18.2		
07/02/2019	08:47								<0.01
07/02/2019	10:45	8.89	97.8	6.75	0.60	88.3	19.9		
09/20/2019	11:45	12.02	116.1	7.55	0.25	144.7	13.9		

04-AMM, Ammonoosuc River, Covered Bridge, Bath

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		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
06/04/2019	09:34							43		16
06/10/2019	12:03	10.04	105.8	7.05	0.35	84.3	18.0			
07/02/2019	09:15							127		
07/02/2019	09:45	8.04	86.6	6.80	0.75	89.4	18.9			
07/30/2019	10:05							145	92	
09/20/2019	13:15	10.47	106.0	7.04	0.50	157.2	16.0			

03-AMM, Ammonoosuc River, Railroad Bridge off Route 302, Bath, 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		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
06/20/2019	12:00	8.90	96.4	6.88	1.46	121.8	19.2	62		22
07/16/2019	11:55	8.63	100.1	7.07	0.61	125.9	22.8	10		21
08/13/2019	10:00	8.40	95.5	7.41	0.83	164.7	21.6	52	32	25
10/15/2019	12:00	11.11	101.3	6.66	0.48	118.4	11.3			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		Narrative	Narrative	Narrative	Narrative
06/20/2019	12:00	0.011	ND	0.05	0.18 ^C
07/16/2019	11:55	0.011	ND	0.10	0.22 ^C
08/13/2019	10:00	0.008	ND	ND	
10/15/2019	12:00	0.008	ND	ND	

