VARIATIONS THROUGH THE YEAR GREATER THAN THROUGH A SERIES OF YEARS IN MYSTIC LAKE

	June,	Solids.	NH_3 Free.	NH_3 Alb.	Chlorine.
Horn Pond outlet	1873	104.6	.134	.244	20.2
" " " average	1893	98.3	.061	.455	21.0
" " " maximum, Jan.	1893	135.4	.008	.858	30.3
" " " minimum, March	1893	47.5	.134	.208	6.7

THE PROGRESSIVE POLLUTION OF RIVERS, ILLUSTRATED BY THE MERRIMACK, A RIVER OF LARGE VOLUME INCREASED FROM A LARGE LAKE

Parts per 1,000,000

	Above Lowell.				Below Lowell, above Lawrence.			
	1873	1893	1901	1906	1873	1893	1901	1906
Free ammonia	.047	.026	.060	.080	.044	.057	.092	.119
Alb. ammonia	.114	.148	.207	.194	.110	.181	.251	.239
Residue	41.0	33.9	40.0	41.2	41.0	38.6	42.7	47.3
Loss	17.3	11.8	17.0	16.5	16.9	14.8	17.3	19.3
Chlorine	1.4	1.7	1.90	2.1	2.00	2.00	2.4	3.1
Nitrites	.....	.001	.001	.002	.....	.002	.004	.003
Nitrates	.....	.083	.062	.036	.....	.081	.082	.032
Color	.....	.33	.38	.38	.....	.42	.41	.41

Nov., 1891, Bacteria, 1,930 per c.c.

Oct., 1891, Bacteria, 12,400.
Nov., 1891, Bacteria, 2,500.

	Yearly Range.			
	Below Lawrence.		Above Lowell.	Above Lawrence.
	1873	1891	1893	1893
Free ammonia	.031	.043	.004 to .054	.012 to .124
Alb. ammonia	.127	.309	.102 to .210	.160 to .236
Residue	44.30	59.10	26.5 to 38.0	27.5 to 43.5
Loss	17.90	20.4	8.5 to 15.0	10.0 to 25.5
Chlorine	1.8	3.9	.7 to 2.3	1.0 to 3.0
Nitrites	.....	.002	.000 to .002	.000 to .006
Nitrates	.....	.095	.030 to .180	.030 to .180
Color	.....	.30	.10 to .50	.12 to 1.0

Oct., 1891, Bacteria, 13,600.
Nov., 1891, Bacteria, 2,700.

http://memory.loc.gov/cgi-bin/query/r?ammem/consrv:@field(DOCID+@lit(amrvgvg48div21))

Library of Congress www.loc.gov/teachers