

THAMES RIVER BASIN
01120800 NATCHAUG RIVER AT CHAPLIN, CT

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1962 to September 1964, March 1995 to present.

REMARKS.--The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARDS UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED ITY (MG/L) (00300)	OXYGEN, DIS- SOLVED CENT SATUR- ATION (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
NOV											
20...	1245	46	77	7.5	14.0	6.0	.60	13.4	109	140	K6
JAN											
14...	1130	11	88	7.1	-5.0	.0	.74	14.5	98	K5	31
MAR											
02...	1115	519	56	6.6	5.0	1.5	1.3	13.5	98	K12	K19
MAY											
20...	1000	126	67	7.2	15.0	15.5	4.3	9.5	96	K490	84
JUN											
21...	0850	11	90	7.6	17.5	17.0	.81	9.7	11	28	21
JUL											
28...	1015	9.2	97	7.4	26.0	23.0	.91	8.6	102	48	64
AUG											
10...	1220	7.1	106	7.6	22.5	20.0	.56	9.7	109	23	31
SEP											
29...	0900	18	96	7.0	20.0	16.0	.73	9.4	96	36	88

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV											
20...	19	4.8	1.8	6.1	1.5	0	12	10	5.2	11	<.10
JAN											
14...	15	3.7	1.5	7.8	.99	0	22	18	5.7	13	<.10
MAR											
02...	11	2.6	1.1	4.8	.75	0	4	3	5.4	8.2	<.10
MAY											
20...	16	4.1	1.5	5.6	.99	0	12	10	5.1	9.2	<.10
JUN											
21...	22	5.6	2.0	7.5	1.3	0	21	17	5.8	12	<.10
JUL											
28...	24	6.3	2.1	8.1	1.8	0	22	18	4.7	13	<.10
AUG											
10...	25	6.5	2.2	8.3	1.7	0	23	19	4.8	13	<.10
SEP											
29...	24	6.0	2.1	6.7	1.4	0	13	11	11	11	<.10

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. TOTAL (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
NOV										
20...	8.5	65	60	<.010	.141	.030	.20	.23	.19	.38
JAN										
14...	9.0	60	60	<.010	.209	.045	.21	.26	.17	.47
MAR										
02...	6.3	37	44	.017	.114	<.020	--	.20	.12	.31
MAY										
20...	6.0	46	60	<.010	.110	.020	.52	.54	.28	.65
JUN										
21...	5.3	63	68	<.010	.102	<.020	--	.23	.15	.33
JUL										
28...	5.1	63	62	<.010	.205	<.020	--	.33	.17	.54
AUG										
10...	5.3	56	65	.051	.226	.162	.04	.20	.51	.42
SEP										
29...	6.7	61	60	<.010	<.050	<.020	--	.34	.17	--
DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
NOV										
20...	<.050	<.050	.011	25	<1.0	6.1	<1.0	<1.0	<1.0	<1.0
JAN										
14...	.012	.006	.015	45	<1.0	6.5	<1.0	<1.0	<1.0	<1.0
MAR										
02...	.018	.005	<.010	46	<1.0	5.0	<1.0	<1.0	<1.0	<1.0
MAY										
20...	.043	.009	.010	32	<1.0	6.5	<1.0	<1.0	<1.0	<1.0
JUN										
21...	.007	.005	<.010	15	<1.0	5.8	<1.0	<1.0	<1.0	<1.0
JUL										
28...	.008	.006	<.010	7.4	<1.0	5.6	<1.0	<1.0	<1.0	<1.0
AUG										
10...	.007	.093	.068	8.5	<1.0	5.0	<1.0	<1.0	<1.0	<1.0
SEP										
29...	.009	E.005	<.010	12	<1.0	7.7	<1.0	<1.0	<.80	<1.0
DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV										
20...	<1.0	210	<1.0	4.8	<1.0	<1.0	<1.0	1.2	<1.0	5.6
JAN										
14...	<1.0	120	<1.0	9.9	<1.0	<1.0	<1.0	1.7	<1.0	4.7
MAR										
02...	<1.0	62	<1.0	14	<1.0	<1.0	<1.0	1.8	<1.0	3.9
MAY										
20...	<1.0	140	<1.0	17	<1.0	<1.0	<1.0	1.3	<1.0	8.5
JUN										
21...	<1.0	130	<1.0	12	<1.0	<1.0	<1.0	<1.0	<1.0	3.1
JUL										
28...	<1.0	56	<1.0	25	<1.0	<1.0	<1.0	<1.0	<1.0	2.9
AUG										
10...	<1.0	58	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	2.3
SEP										
29...	<1.0	58	<1.0	9.8	<1.0	<1.0	<1.0	<1.0	<1.0	5.0

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REMARKS--Continuous water-quality monitoring equipment was used to collect additional data for short periods at this station. All records rated good, except for temperature and dissolved oxygen, which are rated excellent. Equipment failed at midnight on Feb. 14, 1999.

[--, data not applicable due to partial record]

Date	Specific conductance ($\mu\text{s}/\text{cm}$)			pH (Standard units)		Water temperature (degrees Celsius)			Turbidity (NTU)			Dissolved oxygen (mg/L)		
	Max	Min	Mean	Max	Min	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
02-12-99	61	59	60	6.4	--	5.0	--	--	0.80	0.00	0.19	--	11.8	--
02-13-99	62	59	60	6.5	6.2	5.0	2.5	4.0	2.2	.50	1.0	12.5	11.7	12.2
02-14-99	61	59	60	6.5	6.2	2.5	0.5	1.5	.80	.30	.51	13.4	12.5	13.0

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Water Quality Parameters for Natchaug River at Chaplin
February 12 - 14, 1999

