QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT

LOCATION.--Lat 41°31'45", long 72°51'50", New Haven County, Hydrologic Unit 01100004, at bridge on Cheshire Street, 3 mi west of Meriden, and 1.7 mi upstream from Hanover Pond.

DRAINAGE AREA.--69.6 mi^2.

PERIOD OF RECORD.--Water year 1974 to current year.

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-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
23...	1210	50	361	7.4	13.5	9.5	1.5	9.4	81	1200	228
DEC											
07...	1500	57	351	7.8	17.5	11.0	1.4	10.8	99	2200	140
FEB											
08...	1410	214	249	7.4	5.0	3.5	2.9	13.7	103	1300	240
APR											
06...	1340	141	282	8.1	16.0	11.0	1.2	12.9	116	K240	80
JUN											
07...	1240	57	358	7.4	34.5	18.5	4.0	7.8	84	200	144
JUL											
06...	1300	42	377	7.4	34.0	24.5	4.0	6.5	79	440	152
AUG											
18...	1315	24	441	7.5	27.0	23.0	2.6	7.0	82	420	152
SEP											
15...	1330	50	389	7.4	21.0	18.5	2.6	8.0	86	460	308

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)
OCT											
23...	110	35	5.3	25	3.7	0	81	66	20	38	.14
DEC											
07...	110	35	5.4	21	3.2	0	85	70	17	37	.13
FEB											
08...	69	22	3.6	18	1.6	0	55	45	12	35	<.10
APR											
06...	87	28	4.4	18	1.9	0	73	60	14	32	<.10
JUN											
07...	120	39	5.6	24	3.3	0	90	74	17	42	.17
JUL											
06...	110	37	5.5	24	3.6	0	88	72	17	42	.20
AUG											
18...	130	43	6.4	31	5.5	0	96	79	19	51	.23
SEP											
15...	120	38	5.6	27	4.4	0	85	70	24	46	.21

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

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, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
OCT										
23...	14	221	214	<.010	4.92	.025	.37	.39	.28	5.3
DEC										
07...	12	202	213	.010	4.61	.022	.46	.48	.25	5.1
FEB										
08...	11	149	156	<.010	1.73	.062	.20	.27	.23	2.0
APR										
06...	9.3	164	175	<.010	2.07	<.020	--	.29	.20	2.4
JUN										
07...	14	248	260	.127	5.52	.147	.58	.73	.53	6.3
JUL										
06...	14	266	235	.059	5.15	.046	.56	.61	.50	5.8
AUG										
18...	15	266	271	.011	6.85	.023	.50	.52	.44	7.4
SEP										
15...	14	237	238	<.010	5.98	.032	.42	.45	.43	6.4

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)
OCT										
23...	.604	.671	.527	3.7	<1.0	102	<1.0	<1.0	<1.0	<1.0
DEC										
07...	.589	.520	.508	4.4	<1.0	102	<1.0	<1.0	<1.0	<1.0
FEB										
08...	.136	.119	.109	11	<1.0	68	<1.0	<1.0	<1.0	<1.0
APR										
06...	.216	.186	.160	13	<1.0	82	<1.0	<1.0	<1.0	<1.0
JUN										
07...	.659	.638	.560	5.8	<1.0	107	<1.0	<1.0	<1.0e	<1.0
JUL										
06...	.729	.726	.693	6.9	<1.0	106	<1.0	<1.0	<1.0	<1.0
AUG										
18...	1.01	.266	.958	6.4	<1.0	112	<1.0	<1.0	<1.0	1.4
SEP										
15...	.781	.810	.774	5.2	<1.0	110	<1.0	<1.0	<1.0	<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)
OCT										
23...	2.8	61	<1.0	65	<1.0	2.8	<1.0	18	<1.0	4.3
DEC										
07...	2.9	76	<1.0	46	<1.0	1.8	<1.0	19	<1.0	4.5
FEB										
08...	1.7	82	<1.0	65	<1.0	1.3	<1.0	15	<1.0	3.2
APR										
06...	2.0	110	<1.0	68	<1.0	1.0	<1.0	10	<1.0	3.7
JUN										
07...	3.5	87	<1.0	69	<1.0	1.0	<1.0	15	<1.0	4.3
JUL										
06...	22	49	<1.0	63	<1.0	1.7	<1.0	12	<1.0	--
AUG										
18...	4.5	19	<1.0	62	1.2	2.3	<1.0	18	<1.0	4.1
SEP										
15...	4.3	46	<1.0	101	1.6	2.0	<1.0	17	<1.0	3.7

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

REMARKS--Continuous water-quality monitoring equipment was used to collect additional data for short periods at this station. May to June deployment: Temperature and pH records rated excellent; turbidity and specific conductance records good; dissolved oxygen records rated fair. August deployment: All records rated excellent, except for dissolved oxygen records, which are rated good.

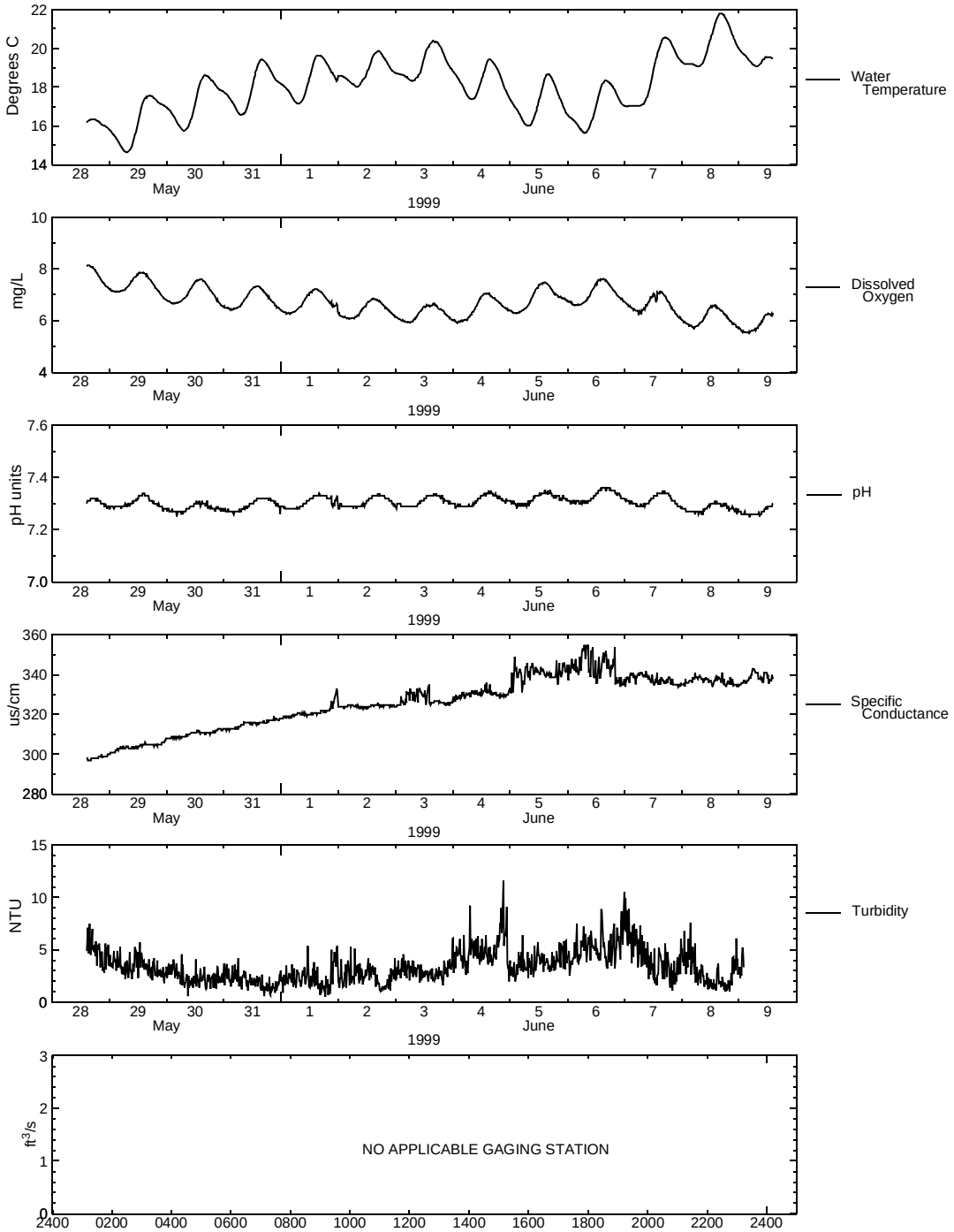
[--, data not available due to partial record]

Date	Specific conductance (µs/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
05-28-99	--	--	--	7.3	7.3	16.5	--	--	--	--	--	8.1	--	--
05-29-99	308	300	304	7.3	7.3	17.5	14.5	16.0	5.7	1.8	3.4	7.9	6.8	7.4
05-30-99	313	308	310	7.3	7.3	18.5	16.0	17.0	4.6	.60	2.4	7.6	6.5	7.0
05-31-99	319	312	315	7.3	7.3	19.5	16.5	18.0	4.2	.60	2.0	7.3	6.4	6.8
06-01-99	333	318	321	7.3	7.3	19.5	17.0	18.5	5.4	.50	2.3	7.2	6.3	6.7
06-02-99	326	323	324	7.3	7.3	20.0	18.0	19.0	5.3	1.0	2.5	6.9	6.1	6.4
06-03-99	335	324	328	7.3	7.3	20.5	18.5	19.0	6.1	1.6	3.0	6.7	5.9	6.3
06-04-99	336	327	330	7.3	7.3	19.5	17.5	18.5	12	2.0	5.0	7.1	5.9	6.5
06-05-99	349	331	341	7.3	7.3	18.5	16.0	17.0	6.4	2.0	3.8	7.5	6.3	6.9
06-06-99	355	334	344	7.4	7.3	18.5	15.5	17.0	11	2.5	5.2	7.6	6.6	7.0
06-07-99	342	334	338	7.3	7.3	20.5	17.0	18.5	9.9	1.1	4.3	7.1	6	6.6
06-08-99	341	334	337	7.3	7.3	22.0	19.0	20.0	7.6	1.0	2.8	6.6	5.7	6.1
06-09-99	343	335	338	7.3	7.3	--	19.0	--	--	--	--	6.3	5.5	6.0
08-06-99	471	--	--	7.6	7.4	22.0	--	--	--	--	--	8.9	--	--
08-07-99	476	438	459	7.6	7.5	22.0	20.5	21.0	6.4	1.6	3.0	8.8	6.8	7.8
08-08-99	475	437	456	7.6	7.4	21.5	20.5	21.0	6.4	2.4	3.6	8.0	6.8	7.4
08-09-99	462	427	445	7.6	7.4	21.5	20.0	20.5	6.5	1.6	3.5	8.5	6.7	7.6
08-10-99	454	419	439	7.6	7.4	20.0	18.0	19.0	5.4	1.5	3.0	8.9	7.0	8.0
08-11-99	479	429	457	7.5	7.4	19.5	19.0	19.5	6.5	1.7	3.1	8.5	7.1	7.8
08-12-99	486	454	471	7.6	7.4	21.5	19.5	20.5	7.9	1.4	2.8	8.9	7.1	8.0
08-13-99	478	444	463	7.6	7.4	23.0	21.0	22.0	5.3	1.2	2.5	8.6	6.8	7.8
08-14-99	475	429	457	7.5	7.3	23.0	22.0	22.5	6.0	1.5	3.0	8.0	6.4	7.1
08-15-99	437	389	419	7.4	7.2	22.0	20.5	21.0	6.0	1.7	3.7	7.6	6.4	7.0
08-16-99	--	389	--	--	7.3	--	19.5	--	--	--	--	--	6.6	--

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

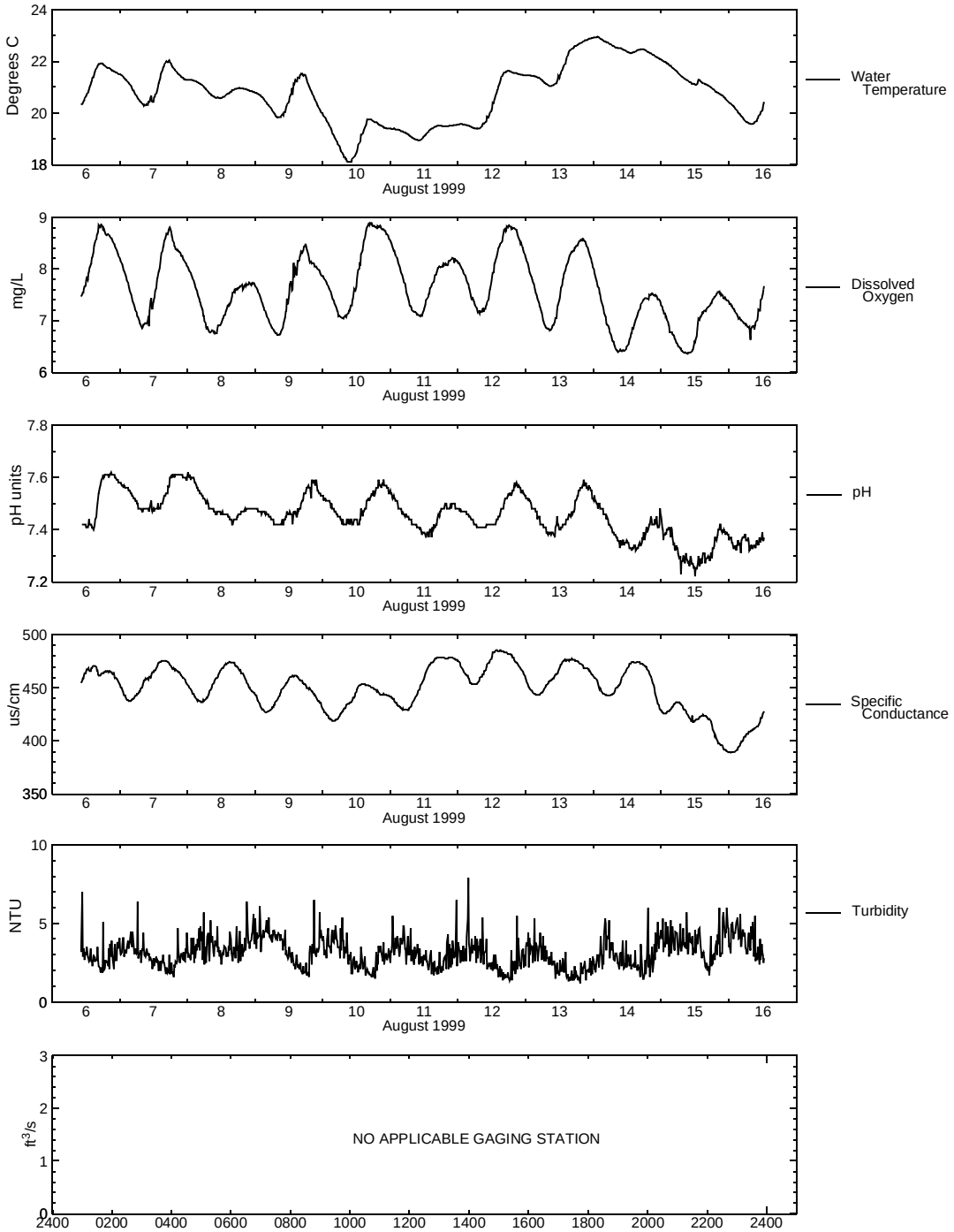
Water Quality Parameters for Quinnipiac River near Meriden
May 28 - June 9, 1999



QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

Water Quality Parameters for Quinnipiac River near Meriden
August 06 - 16, 1999



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