

Nashua River Watershed Association 2004 Water Quality Monitoring Site Descriptions

NRWA Site #	Field Description	River	Water body	Town
<b>NASHUA RIVER MAINSTEM AND TRIBUTARIES</b>				
NM11-04	Canal Street at BAE parking lot behind Area Agency	Nashua Mainstem	Nashua Mainstem	Nashua
NM02-04	Mine Falls Park at boat launch	Nashua Mainstem	Nashua Mainstem	Nashua
NM03-04	Downstream from Rte 111 bridge (Runnels Bridge) in Hollis	Nashua Mainstem	Nashua Mainstem	Hollis
NM04-04	upstream side of covered bridge (Groton St) at abutment	Nashua Mainstem	Nashua Mainstem	Pepperell
NM05-04	Pepperell Pond near the Groton/ Pepperell town line- off bike path.	Nashua Mainstem	Nashua Mainstem	Pepperell/Groton
NM06-04	Petapawag- upstream of Rte. 119	Nashua Mainstem	Nashua Mainstem	Groton
CT01-04	At Lovell St.- mouth of brook on south bank	Nashua Mainstem	Catacunemaug Brook	Shirley
NM08-04	Upstream of Hospital Rd. bridge on eastern shore	Nashua Mainstem	Nashua Mainstem	Shirley/Devens
NM09-04	Tank Bridge	Nashua Mainstem	Nashua Mainstem	Harvard
NM10-04	Nashua at boat launch upstream of Rte. 117	Nashua Mainstem	Nashua Mainstem	Lancaster
SN01-04	South Nashua River at Mill Street	Nashua Mainstem	South Nashua River	Lancaster
<b>NORTH NASHUA RIVER AND TRIBUTARIES</b>				
NN01-04	N. Nashua at Main Street R.R bridge	North Nashua River	North Nashua River	Lancaster
NN02-04	N. Nashua at Cook Conservation Area powerline crossing	North Nashua River	North Nashua River	Lancaster
WE01-04	Wekepeke below Bartlett Pond dam	North Nashua River	Wekepeke Brook	Lancaster
NN03-04	Rte 190 on North Nashua	North Nashua River	North Nashua River	Lancaster/Leominster
NN12-04	Behind Gear Works Cyclery on Hamilton Street	North Nashua River	North Nashua River	Leominster
NN09-04	Behind McDonalds parkinglot. Access is behind large shrub	North Nashua River	North Nashua River	Fitchburg
PB03-04	Phillips Brook behind British-American club on Rt. 12 (Junction of Nashua and Phillips Brook)	North Nashua River	Phillips Brook	Fitchburg
PB02-04	At former swimming hole- upstream of dam	North Nashua River	Phillips Brook	Ashburnham
NN11-04	Along Rt. 12 (near the West Fitchburg Restaurant (Pizza?))	North Nashua River	North Nashua River	Fitchburg
FB01-04	Flag Brook. Opening just before RR overpass on Rt. 31	North Nashua River	North Nashua River	Fitchburg
<b>NISSITISSIT RIVER AND TRIBUTARIES</b>				
NT01-04	100 yds. Upstream from the mouth of river, behind Lomar Park	Nissitissit River	Nissitissit River	Pepperell
NT06-04	Below Rte 111 bridge on Nissitissit	Nissitissit River	Nissitissit River	Pepperell
NT02-04	Upstream at Prescott St. bridge on river left	Nissitissit River	Nissitissit River	Pepperell
GB01-04	Gulf Brook at Chestnut Street	Nissitissit River	Gulf Brook	Pepperell
NT04-04	Downstream at Bohannon Bridge	Nissitissit River	Nissitissit River	Brookline
NT05-04	150ft from Potanipo Lighthouse w/ Mason Rd. West on right.	Nissitissit River	Nissitissit River	Brookline
<b>SQUANNACOOK RIVER AND TRIBUTARIES</b>				
SQ03-04	Directly opposite Candice Lane- west side of Townsend Rd.	Squannacook River	Squannacook River	Groton/Shirley
SQ04-04	D/S from Shepard's Auto Body in Townsend Harbor.	Squannacook River	Squannacook River	Townsend
SQ06-04	Squannacook River at Adams Dam site in Townsend	Squannacook River	Squannacook River	Townsend
WB01-04	At West Meadow Road	Squannacook River	Willard Brook	Townsend

Nashua River Watershed Association 2004 Data

BACTERIA										
Site #	River	Waterbody	4/17/04	5/22/04	6/19/04	7/17/04	8/21/04	9/18/04	10/16/04	Bacteria tested
NM11-04	Main Stem	Nashua Mainstem		200	200	72	>400	600	90	E. coli
NM02-04	Main Stem	Nashua Mainstem	252	19	17	12	410	1,400	50	E. coli, except April*
NM03-04	Main Stem	Nashua Mainstem		200	600	52	200	20	70	E. coli
NM04-04	Main Stem	Nashua Mainstem	128	15	<200	52	250	> 800	170	E. coli, except April*
NM05-04	Main Stem	Nashua Mainstem				280	0	560	<200	Fecal coliform
NM06-04	Main Stem	Nashua Mainstem	140		810	240	80	570	520	Fecal coliform
CT01-04	Main Stem	Catacunamaug Brook	24		640	170	270	440	320	Fecal coliform
NM08-04	Main Stem	Nashua Mainstem			<300	TNTC	110	220	280	Fecal coliform
NM09-04	Main Stem	Nashua Mainstem	380							Fecal coliform
NM10-04	Main Stem	Nashua Mainstem		1,100	825	670		5,600	>2000	Fecal coliform
SN01-04	Main Stem	South Nashua		450	900	80			1,050	Fecal coliform
NT01-04	Nissitissit	Nissitissit	24	60	300	224	500	3,900	260	E. coli, except April*
NT06-04	Nissitissit	Nissitissit		100	100	184	430	>600	460	E. coli
NT02-04	Nissitissit	Nissitissit				220	270	490	140	Fecal coliform
GB01-04	Nissitissit	Gulf Brook				340	220	290	<300	Fecal coliform
NT04-04	Nissitissit	Nissitissit	4	400	300	172	510	1,500	300	E. coli, except April*
NT05-04	Nissitissit	Nissitissit		24	1,000	20	170	200	60	E. coli
NN01-04	North Nashua	North Nashua		480	1,000	900		1,800	4,900	Fecal coliform
NN02-04	North Nashua	North Nashua	450	500	1,250	300		8,100	12,500	Fecal coliform
WE01-04	North Nashua	Wekepeke Brook	380	650	400	1,200		9,900	TNTC	Fecal coliform
NN03-04	North Nashua	North Nashua		1,200	580	950		10,400		Fecal coliform
NN12-04	North Nashua	North Nashua		750	2,500	300	60,000	30,000		Fecal coliform
NN09-04	North Nashua	North Nashua		650	850	250	1,125	6,200		Fecal coliform
PB03-04	North Nashua	Phillips Brook			216	175	780	10,100	4,250	Fecal coliform
PB02-04	North Nashua	Phillips Brook			176	30	60	1,100	150	Fecal coliform
FB01-04	North Nashua	Flag Brook		900	450	450	7,500	1,800		Fecal coliform
SQ03-04	Squannacook	Squannacook			<400	200	60	750	40	Fecal coliform
SQ04-04	Squannacook	Squannacook	<20		170	100	100	>200	20	Fecal coliform
SQ06-04	Squannacook	Squannacook				350	0		520	Fecal coliform
WB01-04	Squannacook	Willard Brook				150	230	280	450	Fecal coliform

KEY	
* All sites tested in April were tested for fecal coliform bacteria.	
	Dry weather sampling
	Wet weather sampling
	Meets or exceeds 400 colonies/100mL
	Between 200 and 400 colonies/100mL
	Cold water fisheries
TNTC	To numerous to count

Nashua River Watershed Association 2004 Data

pH									
Site #	River	Waterbody	4/17/04	5/22/04	6/19/04	7/17/04	8/21/04	9/18/04	10/16/04
NM11-04	Main Stem	Nashua Mainstem		6.39	6.24	6.43	6.37	7.38	6.39
NM02-04	Main Stem	Nashua Mainstem	6.04	6.37	6.41	6.42	6.10	7.23	6.26
NM03-04	Main Stem	Nashua Mainstem		6.33	6.43	6.56	6.43	6.69	6.36
NM04-04	Main Stem	Nashua Mainstem	6.11	6.65	6.05	6.56	6.23	7.30	6.24
NM05-04	Main Stem	Nashua Mainstem		6.99	N/S	6.92	7.36	7.16	6.72
NM06-04	Main Stem	Nashua Mainstem	6.26	7.01	7.19				6.85
CT01-04	Main Stem	Catacunamaug Brook	6.46	7.28	7.35		7.34	7.36	7.03
NM08-04	Main Stem	Nashua Mainstem		7.03	7.31	6.70		7.34	6.78
NM09-04	Main Stem	Nashua Mainstem	6.18						
NM10-04	Main Stem	Nashua Mainstem		6.68	6.75				6.90
SN01-04	Main Stem	South Nashua		6.74	6.37	7.01		6.89	6.84
NT01-04	Nissitissit	Nissitissit	6.21	6.67	6.41	6.50	6.53	7.25	6.25
NT06-04	Nissitissit	Nissitissit		6.78	6.42	6.57	6.58	6.90	6.25
NT02-04	Nissitissit	Nissitissit		7.01		7.20	7.18	7.06	6.74
GB01-04	Nissitissit	Gulf Brook		7.31		7.20	7.37	7.05	7.16
NT04-04	Nissitissit	Nissitissit	5.69	6.01	5.97	6.61	6.00	6.33	5.85
NT05-04	Nissitissit	Nissitissit		6.02	6.01	6.76	6.63	6.26	5.83
NN01-04	North Nashua	North Nashua		6.70	6.77				6.82
NN02-04	North Nashua	North Nashua	6.10	6.76	6.89				6.81
WE01-04	North Nashua	Wekepeke Brook	6.18	6.88	6.92				6.85
NN03-04	North Nashua	North Nashua		6.75	6.85				6.88
NN12-04	North Nashua	North Nashua		6.84	6.82		6.89	6.85	
NN09-04	North Nashua	North Nashua		7.05	7.11		6.85	7.24	
PB03-04	North Nashua	Phillips Brook		7.07	7.03	6.91	6.39	6.39	6.79
PB02-04	North Nashua	Phillips Brook		6.28	6.44	6.52	6.79	6.22	6.35
NN11-04	North Nashua	North Nashua		7.00					
FB01-04	North Nashua	Flag Brook		6.93	6.89	7.09	7.06	7.08	
SQ03-04	Squannacook	Squannacook		6.81	6.65	6.70	6.99	7.02	6.38
SQ04-04	Squannacook	Squannacook	5.82	6.92	7.01	6.94	7.29	6.98	6.73
SQ06-04	Squannacook	Squannacook		6.80		6.70	6.97	6.84	6.56
WB01-04	Squannacook	Willard Brook		7.06		6.96	7.28	7.04	6.89

KEY	
	Dry weather sampling
	Wet weather sampling
	Below 6.5 standard units
	Just within state standards
	Cold water fisheries

Nashua River Watershed Association 2004 Data

Alkalinity			4/17/04	5/22/04	6/19/04	7/17/04	8/21/04	9/18/04	10/16/04
Site #	River	Waterbody							
NM11-04	Main Stem	Nashua Mainstem		19.6	19.6				24.7
NM02-04	Main Stem	Nashua Mainstem	7.7	23.4	18.8			24.6	22.5
NM03-04	Main Stem	Nashua Mainstem		16.2	17.7				
NM04-04	Main Stem	Nashua Mainstem	8.3	16.8	17.5				25.6
NM05-04	Main Stem	Nashua Mainstem		16.1		16.8	18.7	22.6	25.1
NM06-04	Main Stem	Nashua Mainstem	8.3	17.1	16.9				25.7
CT01-04	Main Stem	Catacunamaug Brook	18.6	20.8	6.1		25.0	20.5	22.9
NM08-04	Main Stem	Nashua Mainstem		16.9	18.6	15.4			25.0
NM09-04	Main Stem	Nashua Mainstem	8.6						
NM10-04	Main Stem	Nashua Mainstem		18.0	17.0				21.0
SN01-04	Main Stem	South Nashua		10.0	10.2	8.0		18.0	0.0
NT01-04	Nissitissit	Nissitissit	5.4	14.9	18.1				19.3
NT06-04	Nissitissit	Nissitissit		15.10	17.9				18.3
NT02-04	Nissitissit	Nissitissit		12.0		15.10	15.1	17.1	18.2
GB01-04	Nissitissit	Gulf Brook		14.7		15.9	13.5	11.0	14.8
NT04-04	Nissitissit	Nissitissit	1.4	4.2	4.9	9.5	6.6	6.6	5.9
NT05-04	Nissitissit	Nissitissit		2.2	2.9	4.0	4.1	3.3	4.0
NN01-04	North Nashua	North Nashua		11.0	24.0				11.0
NN02-04	North Nashua	North Nashua	9.7	22.0	23.0				17.0
WE01-04	North Nashua	Wekepeke Brook	10.0	22.0	23.0				20.0
NN03-04	North Nashua	North Nashua		26.0	22.0				25.0
NN12-04	North Nashua	North Nashua		19.5	23.0		25.0	20.0	
NN09-04	North Nashua	North Nashua		16.0	15.4		20.0	14.0	
PB03-04	North Nashua	Phillips Brook		6.4	7.5	6.0	12.5	9.5	18.0
PB02-04	North Nashua	Phillips Brook		3.0	3.2	5.6	8.0	7.0	15.0
NN11-04	North Nashua	North Nashua		13.0					
FB01-04	North Nashua	Flag Brook		11.5	10.2	11.0	15.0	14.0	
SQ03-04	Squannacook	Squannacook		8.3	10.7	10.7	11.1	10.0	9.3
SQ04-04	Squannacook	Squannacook	2.5	7.0	8.9	9.7	9.4	9.8	8.7
SQ06-04	Squannacook	Squannacook		5.8		9.4	9.6	9.1	8.1
WB01-04	Squannacook	Willard Brook		5.6		7.0	5.9	4.3	5.8

KEY	
	Dry weather sampling
	Wet weather sampling
	Below 10mg/L CaCO3
	Between 10 and 20mg/L CaCO3
	Cold water fisheries

Nashua River Watershed Association 2004 Data

Dissolved Oxygen			4/17/04	5/22/04	6/19/04	7/17/04	8/21/04	9/18/04	10/16/04
Site #	River	Waterbody							
NM11-04	Main Stem	Nashua Mainstem		7.5	6.3	6.9	6.8	7.4	7.6
NM02-04	Main Stem	Nashua Mainstem	9.2	8.1	7.8	7.0	7.0	6.4	7.5
NM03-04	Main Stem	Nashua Mainstem		9.6	6.8	7.2	5.9	5.5	7.0
NM04-04	Main Stem	Nashua Mainstem	11.6	5.7	7.5	7.6	5.6		6.9
NM05-04	Main Stem	Nashua Mainstem		4.7		5.6	6.3	4.9	2.9
NM06-04	Main Stem	Nashua Mainstem	10.4	7.1	6.7	8.3	7.4	6.6	6.3
CT01-04	Main Stem	Catacunamaug Brook	8.8	7.4	6.6	7.2		7.0	8.2
NM08-04	Main Stem	Nashua Mainstem		6.5	6.5	4.6	6.7	6.2	5.8
NM09-04	Main Stem	Nashua Mainstem	9.0						
NM10-04	Main Stem	Nashua Mainstem		8.9	7.5	9.1		8.7	8.4
SN01-04	Main Stem	South Nashua		8.5	8.0	10.2		8.9	8.9
NT01-04	Nissitissit	Nissitissit	9.5	8.7	6.9	7.1	6.7		9.3
NT06-04	Nissitissit	Nissitissit		7.8	7.4	7.8	7.4	7.9	8.8
NT02-04	Nissitissit	Nissitissit		7.0		6.6	6.7	4.9	7.2
GB01-04	Nissitissit	Gulf Brook		8.9		8.5	7.6		8.8
NT04-04	Nissitissit	Nissitissit	9.1	5.7	5.6	6.1	5.2	6.3	6.8
NT05-04	Nissitissit	Nissitissit		7.0	7.2	7.4	7.3	7.6	7.6
NN01-04	North Nashua	North Nashua		7.25	7.45	8.90		7.6	8.4
NN02-04	North Nashua	North Nashua	9.9	8.0	6.6	7.3		7.1	9.0
WE01-04	North Nashua	Wekepeke Brook	8.8	10.5	6.8	8.2		8.9	8.7
NN03-04	North Nashua	North Nashua		8.5	7.6	7.6		8.3	9.0
NN12-04	North Nashua	North Nashua		9.4	7.7	7.9	7.6	7.9	
NN09-04	North Nashua	North Nashua		9.20	8.80	8.0	8.1	8.0	
PB03-04	North Nashua	Phillips Brook		8.7	8.7	9.8	11.5	8.9	9.8
PB02-04	North Nashua	Phillips Brook		6.8	7.4	9.2	11.0	9.4	
NN11-04	North Nashua	North Nashua		10.3					
FB01-04	North Nashua	Flag Brook		7.9	6.7	8.7	7.8	7.9	
SQ03-04	Squannacook	Squannacook		10.2	6.4	6.1	5.8		7.1
SQ04-04	Squannacook	Squannacook	10.4	7.7	7.6	6.6	7.9	7.0	8.9
SQ06-04	Squannacook	Squannacook		7.2		7.2	6.1	7.4	7.7
WB01-04	Squannacook	Willard Brook		9.6		7.9	8.5	7.8	9.4

KEY	
	Dry weather sampling
	Wet weather sampling
	Below 5.0mg/L in warm-water fisheries and 6.0mg/L in cold-water fisheries.
	Cold water fisheries

Nashua River Watershed Association 2004 Data

Dissolved Oxygen % Saturation									
Site #	River	Waterbody	4/17/04	5/22/04	6/19/04	7/17/04	8/21/04	9/18/04	10/16/04
NM11-04	Main Stem	Nashua Mainstem		79.4	69.5	79.1	78.0	79.9	72.2
NM02-04	Main Stem	Nashua Mainstem	75.8	78.7	87.6	78.7	80.3	69.1	69.7
NM03-04	Main Stem	Nashua Mainstem		103.7	78.0	80.9	68.9	60.6	68.0
NM04-04	Main Stem	Nashua Mainstem	100.4	61.6	82.7	85.4	62.9		67.1
NM05-04	Main Stem	Nashua Mainstem		47.7		61.6	70.8		27.6
NM06-04	Main Stem	Nashua Mainstem	83.7	66.4	69.4	84.3	79.9	67.0	57.2
CT01-04	Main Stem	Catacunamaug Brook	76.1	79.9	74.2	82.6		74.1	83.2
NM08-04	Main Stem	Nashua Mainstem		66.0	71.7	48.7	73.9	65.6	58.9
NM09-04	Main Stem	Nashua Mainstem	76.0						
NM10-04	Main Stem	Nashua Mainstem		88.4	75.9	92.4		90.2	81.6
SN01-04	Main Stem	South Nashua		79.0	76.0	99.1		90.4	84.6
NT01-04	Nissitissit	Nissitissit	80.2	92.1	76.1	78.3	75.3		86.4
NT06-04	Nissitissit	Nissitissit		82.5	84.9	87.6	86.4	83.6	85.5
NT02-04	Nissitissit	Nissitissit		72.5		71.3	76.8	50.5	
GB01-04	Nissitissit	Gulf Brook		84.6		82.5	77.2		
NT04-04	Nissitissit	Nissitissit	75.0	61.6	62.9	67.3	59.6	66.7	64.6
NT05-04	Nissitissit	Nissitissit		78.7	84.1	83.1	88.6	85.4	73.9
NN01-04	North Nashua	North Nashua		76.7	82.1	98.1		82.1	81.6
NN02-04	North Nashua	North Nashua	83.6	82.9	71.3			76.7	85.6
WE01-04	North Nashua	Wekepeke Brook	72.5	106.6	72.0	86.8		92.2	80.9
NN03-04	North Nashua	North Nashua		88.1	82.1	85.4		87.8	87.5
NN12-04	North Nashua	North Nashua		95.4	86.5	88.2	86.36	83.16	
NN09-04	North Nashua	North Nashua		97.4	98.9	91.7	92.9	86.4	
PB03-04	North Nashua	Phillips Brook		88.3	94.0	108.0	127.8		89.0
PB02-04	North Nashua	Phillips Brook		69.0	76.7	100.9	121.3	97.4	
NN11-04	North Nashua	North Nashua		106.2					
FB01-04	North Nashua	Flag Brook		85.3	75.3	97.8	89.4	85.3	
SQ03-04	Squannacook	Squannacook		101.3		67.3	70.0		55.4
SQ04-04	Squannacook	Squannacook	87.8	79.8	83.8	72.8	90.6	74.1	82.7
SQ06-04	Squannacook	Squannacook		73.1			67.3	75.1	74.8
WB01-04	Squannacook	Willard Brook		94.1		85.3	95.5	79.2	89.4

KEY	
	Dry weather sampling
	Wet weather sampling
	Below 60% saturation in warm water fisheries and 75% saturation in cold water fisheries.
	Just within standards
	Cold water fisheries

Nashua River Watershed Association 2004 Data

Temperature									
Site #	River	Waterbody	4/17/04	5/22/04	6/19/04	7/17/04	8/21/04	9/18/04	10/16/04
NM11-04	Main Stem	Nashua Mainstem		18.0	20.0	22.0	22.0	19.0	13.0
NM02-04	Main Stem	Nashua Mainstem	7.0	14.0	21.0	21.0	22.0	19.0	12.0
NM03-04	Main Stem	Nashua Mainstem		19.0	21.5	21.0	22.5	20.0	14.0
NM04-04	Main Stem	Nashua Mainstem	8.5	18.5	20.0	20.5	20.5	18.0	13.5
NM05-04	Main Stem	Nashua Mainstem		15.5		20.0	21.0		13.0
NM06-04	Main Stem	Nashua Mainstem	6.0	15.0	17.0	16.0	18.5	16.0	11.0
CT01-04	Main Stem	Catacunamaug Brook	8.5	18.5	20.5	22.0	22.5	18.0	16.0
NM08-04	Main Stem	Nashua Mainstem		16.0	19.5	18.0	20.0	18.0	16.0
NM09-04	Main Stem	Nashua Mainstem	7.5						
NM10-04	Main Stem	Nashua Mainstem		14.5	15.5	16.0		17.0	13.5
SN01-04	Main Stem	South Nashua		12.0	13.0	14.0		16.0	13.0
NT01-04	Nissitissit	Nissitissit	7.5	17.5	19.5	19.8	21.0	17.5	12.0
NT06-04	Nissitissit	Nissitissit		17.5	21.5	21.0	22.5	18.0	14.0
NT02-04	Nissitissit	Nissitissit		17.0		19.0	22.0	17.0	
GB01-04	Nissitissit	Gulf Brook		13.0		14.0	16.1	15.0	
NT04-04	Nissitissit	Nissitissit	7.0	18.5	20.5	20.0	22.0	18.3	13.0
NT05-04	Nissitissit	Nissitissit		21.0	23.0	21.0	24.5	21.0	14.0
NN01-04	North Nashua	North Nashua		17.5	19.5	20.0		18.5	14.0
NN02-04	North Nashua	North Nashua	7.5	17.0	19.0			19.0	13.5
WE01-04	North Nashua	Wekepeke Brook	6.5	16.0	18.0	18.0		17.0	12.0
NN03-04	North Nashua	North Nashua		17.0	19.0	20.5		18.0	14.0
NN12-04	North Nashua	North Nashua		16.0	21.0	21.0	22.0	18.0	
NN09-04	North Nashua	North Nashua		18.0	21.0	22.0	22.0	19.0	
PB03-04	North Nashua	Phillips Brook		15.5	19.0	19.5	20.5		11.0
PB02-04	North Nashua	Phillips Brook		16.0	17.0	19.5	19.5	17.0	11.5
NN11-04	North Nashua	North Nashua		17.0					
FB01-04	North Nashua	Flag Brook		19.0	21.0	21.0	22.0	19.0	
SQ03-04	Squannacook	Squannacook		15.0	20.0	20.0	22.0	18.0	11.0
SQ04-04	Squannacook	Squannacook	8.0	17.0	20.0	20.0	22.0	17.5	12.0
SQ06-04	Squannacook	Squannacook		16.0			20.0	16.0	14.0
WB01-04	Squannacook	Willard Brook		15.0		18.5	21.0	16.0	13.0

KEY	
	Dry weather sampling
	Wet weather sampling
	Above 20 degrees C for cold-water fisheries and above 28.3 degrees C for warm-water fisheries.
	Just within standards
	Cold water fisheries