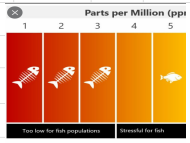
Souhegan Watershed Association Water Quality report 2022-08-30 v1 provisional

Site ID	Site Description	Town	Latitude (DMS)	Longitude	Monitor Name	E-coli MPN/100 mL	DO	pH	Water Level	Water Odor	Water Color	Observed Use	Monitor Comments, (Bold = Action Item)	Monitor Meas Water Temp
Souhegan River Sites														
Billy Ward Pond 1	BWP, #1	Ashburnham	42° 40' 55.8114N	71° 52' 42.3474"W	Dave Ward	11	6.98	-	Low	None	Clear			23.0
Billy Ward Pond 2	BWP, #2	Ashburnham	42° 40' 40.836"N	71° 53' 0.4194" W	Dave Ward	9	7.30	-	Low	None	Clear			23.0
SoR 333	River Road above Water Loom Pond	New Ipswich	42 44' 25.21N	71 50' 39.92W	John Blaine	20	7.42	-	Very low	None	Clear	Fishing		24.0
SoR 320	Highbridge,	New Ipswich	42 45' 5.54N	71 49' 41.41W	Doug Waitt	61	7.75	-	Very low	None	Clear	-		21.0
153	Above Greenville Mill Pond	Greenville	42 45' 51.12N	71 49' 21.53W	Dixie Blease	153	7.93	-	Very low	None	Clear		oil sheen	21.0
SoR 296	Downtown Greenville upstream of WWTP	Greenville	42 46' 12.84N	71 48' 28.74W	Dixie Blease	111	7.19	-	Very low	None	Clear		oil shen, deer prints, racoon	21.0
SoR 291	Green Bridge off Rte 31 below Greenville	Greenville	42 46' 35.19N	71 48' 24.91W	Dixe Blease	86	7.90	-	Very low	None	Clear			23.0
SoR 218	Below the Horseshoe, (on the Souhegan south branch)	Wilton	42 50' 30.516"N	71 44' 46.6074" W	Curt Schnare	228	8.64	7.12	Very low	None	Clear	Fishing		20.0
SoR 212	Riverwalk (North side of Stoney Brook)	Wilton	42 50' 43.224" N,	71 44' 24.072" W	Nikki Andrews	88	7.45	-	Very low	None	Clear	Fishing		23.0
SoR 210	Downtown Wilton, Mill Dam	Wilton	42 50' 26.81N	71 44' 6.28W	John Nevin	1046	8.51	7.06	Very low	None	Clear			22.0
SoR 201	Pine Valley Mill,	West Milford	John Nevin	71 43' 14.89W	John Nevin	114	8.32	-	Very low	None	Clear			22.0
Purgatory Brook,Confluence						-	-	-	-					-
	Purgatory Brook,	Lyndeborough/Mont Vernon			*monitor needed*	-	-	-	-					-
Souhegan River Sites						-	-	-	-					-
SoR 170	Behind Hayward Field	West Milford	42 50' 47.99N	71 40' 33.55W	Nikki Andrews	-	6.87	6.69	Very low		Clear		bluejays, cardinal flower & st John's wort	22.0
SoR 155	Souhegan Valley Boys and Girls Club	Milford	42 50'13.45N	71 39' 6.06W	Celeste Barr	150	7.35	6.58	Very low	None	Clear		wadding footprints, geese	22.0
SoR 146	Swing Bridge	Milford	42 50' 9.97N	71 38' 45.57W	*monitor needed*	-	-	-	-					-
SoR 133	Riverside Cemetery	Milford	42 49' 43.13N	71 37' 34.87W	John & Susie Snyder	210	7.22	8.69	Low	None	Clear			22.9
SoR 130	Behind Lorden Plaza	Milford	42 49' 34.31N	71 37' 19.58W	Rob Clemens	488	-	-	Low	None	Clear			23.0
SoR 122	Amherst Country Club	Amherst	42 49' 45.10N	71 36' 37.29W		-	-	-	-					-
SoR 095	Boston Post Road Canoeport,	Amherst	42 49' 37.77N	71 35' 7.02W	D'Angelo	326	6.51	6.68	Very low	None	Clear	Swimming		20.0
Beaver Brook, Confluence						-	-	-	-					-
BeB 750	Beaver Brook, at Boston Post Rd, (Great Meadow feeds Beaver Brook)	Amherst	42.86704	71.63099	Eric Doberstein	93	3.14	-	Low	None	Cloudy			18.5
BeB 740	Beaver Brook, Manchester St Bridge	Amherst	42.86639	71.62339	Rob Clemens	214	-	-	Very low	None	Tea			20.0
BeB 730	Beaver Brook, Thorton Ferry 1 Road, Bridge	Amherst	42.85906	71.6164	Eric Doberstein	-	4.95	-	Low	None	Clear			21.0
BeB 730	Beaver Brook, Thorton Ferry 1 Road, Bridge	Amherst	42.85906	71.6164	Rob Clemens	326	-	-	Very low	Rotten e	Tea			21.0
BeB 700	Beaver Brook, before confluence w/ Souhegan River (previously SoR 116)	Amherst	72.83146	72.83146		-	-	-	-					-
Souhegan River Sites						-	-	-	-					-
SoR 070	Seaverns Bridge	Amherst	42 50' 11" N	71 33' 37" W	Eric Doberstein	88	6.07	-	Low	None	Clear			22.0
SoR 057	Indian Ledges	Merrimack	42 51' 6.23N	71 32' 54.40W		-	-	-	-					-
SoR 034	Turkey Hill Bridge,	Merrimack	42 51' 32.66N	71 31' 22.72W	Eric Doberstein	613	-	-	Ave	None	Tea			23.0
SoR 015	Wildcat Falls	Merrimack				-	-	-	-					-
SoR 005	West Chamberlain Rd,	Merrimack	42 51' 22.78N	71 29' 59.38W	*monitor needed*	-	-	-	-					-
SoR 001	Watson Park (new request by Town of Merrimack for additional testing)	Merrimack	42.86098N	71.49277 W	John Debellis	49	8.67	-	Low	None	Clear	Swimming	Fishing,	22.0
						-	-	-	-					-
						-	-	-	-					-
Merrimack River Sites						-	-	-	-					-
Mer 600	Above Amoskeag Dam,	Manchester	42 58' 27.79N	71 28' 22.53"W	Charles Lylis	9	6.70	-	-					-
Mer 590	Arms Park	Manchester	42 58' 23.45"N	71 28' 21.52"W	Charles Lylis	46	7.49	-	-					-
Mer 570	Goffs Falls	Litchfield	42 56' 11.05"N	71 27' 23.55"W	Charles Lylis	38	7.03	-	-					-
Mer 560	Depot Street	Merrimack	42 53' 3.89"N	71 28' 7.80"W	Dick Widhu	-	7.36	-	Very low	None	Clear			25.6
Mer 540	Sklar Waterfront Park, (Thortons Ferry)	Merrimack	42 50' 35.09"N	71 29' 01"W	Dick Widhu	20	7.09	-	Very low	None	Cloudy			24.0
Mer 530	Greeley Park, Boat Ramp	Nashua	42 47' 8.50"N	71 27' 28.06"W	Ellen Kolb	25	7.80	-	Low	None	Clear			25.0
Mer 520	Taylors Falls Bridge	Nashua	42 45' 43.16"N	71 26' 40.68"W	J & C Hemmingsen	461	7.20	-	Low	None	Tea	Fishing	Boating	25.0
Mer 510	Sagamore Bridge	Hudson	42 42' 1.24"N	71 26' 16.25"W	J & C Hemmingsen	93	7.23	-	Low	None	Tea	Fishing	Boating	25.0
Mer 490	Upstream of Tyngsboro Bridge	Tyngsboro	42 40' 39.11"N	71 25' 14.19"W		34	7.41	-	-					-
														-
			location data needed		sample taker needed	clean < 88								
						concerning								
	Precipitation: We've had low rainfall this August. Total accumulated rainfall for Aug 2022 (East Milford USGS) = 2.90" Historical Mean = 3.93" About 25% less than our regular rainfall on Aug. This after June and July accumulations of 30% less than the historical mean. We are currently rated as being in severe drought.					unacceptabl								
	Souhegan River Temps on 2022/08/30, ~ Water Monitor measured ranged from 18 to 24 Celcius, (65 to 75 F)					> 406 dangerous								
	Merrimack River Temps on 2022/08/30, ~ Water Monitor measured temps ranged from 24 to 25.5 Celcius, (75 to 78 F)													



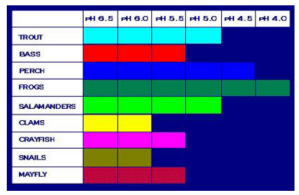


Figure 6. This table illustrates pH values that can be tolerated by different species.

https://www.epa.gov/caddis-vol2/ph

Stream Rates USGS Data, in Ft3/sec 8:00AM	8/30/2022	8/30/2021	Historical Median for this date	Median History Range	8:00 AM USGS water temp Celcius
Upper Soehegan (west Milford near Wilton) WLR-1	10	242	18	~30 yrs	22.5
Lower Soehegan (east Merrimack, Wildcat Falls)	15	336	42	~100 yrs	unavail
Merrimack River (Goffs Falls, near Manchester)	652	1,730	1,650	~ 84 yrs	unavail