# Souhegan River Water Quality report 2022-08-30

| Site ID | Site Description | Town | Latitude (DMS) | Longitude | Monitor Name | E-coli MPN/100mL | DO | pH |
|---|---|---|---|---|---|---|---|---|
| **Souhegan River Sites** | | | | | | | | |
| Billy Ward Pond 1 | BWP, #1 | Ashburnham | 42° 40' 55.8114N | 71° 52' 42.3474"W | Dave Ward | 11 | 6.98 | - |
| Billy Ward Pond 2 | BWP, #2 | Ashburnham | 42° 40' 40.836"N | 71° 53' 0.4194" W | Dave Ward | 9 | 7.30 | - |
| SoR 333 | River Road above Water Loom Pond | New Ipswich | 42 44' 25.21N | 71 50' 39.92W | John Blaine | 20 | 7.42 | - |
| SoR 320 | Highbridge, | New Ipswich | 42 45' 5.54N | 71 49' 41.41W | Doug Waitt | 61 | 7.75 | - |
| 153 | Above Greenville Mill Pond | Greenville | 42 45' 51.12N | 71 49' 21.53W | Dixie Blease | 153 | 7.93 | - |
| SoR 296 | Downtown Greenville upstream of WWTP | Greenville | 42 46' 12.84N | 71 48' 28.74W | Dixie Blease | 111 | 7.19 | - |
| SoR 291 | Green Bridge off Rte 31 below Greenville | Greenville | 42 46' 35.19N | 71 48' 24.91W | Dixe Blease | 86 | 7.90 | - |
| 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 |
| SoR 212 | Riverwalk (North side of Stoney Brook) | Wilton | 42 50' 43.224" N, | 71 44' 24.072" W | Nikki Andrews | 88 | 7.45 | - |
| SoR 210 | Downtown Wilton, Mill Dam | Wilton | 42 50' 26.81N | 71 44' 6.28W | John Nevin | 1046 | 8.51 | 7.06 |
| SoR 201 | Pine Valley Mill, | West Milford | John Nevin | 71 43' 14.89W | John Nevin | 114 | 8.32 | - |
| **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 | ?no data | 6.87 | 6.69 |
| SoR 155 | Souhegan Valley Boys and Girls Club | Milford | 42 50'13.45N | 71 39' 6.06W | Celeste Barr | 150 | 7.35 | 6.58 |
| SoR 146 | Swing Bridge | Milford | 42 50' 9.97N | 71 38' 45.57W | *monitor needed* | no data- | no data | - |
| SoR 133 | Riverside Cemetery | Milford | 42 49' 43.13N | 71 37' 34.87W | John & Susie Snyder | 210 | 7.22 | 8.69 |
| SoR 130 | Behind Lorden Plaza | Milford | 42 49' 34.31N | 71 37' 19.58W | Rob Clemens | 488 | no data | - |
| SoR 122 | Amherst Country Club | Amherst | 42 49' 45.10N | 71 36' 37.29W | | no data- | no data | - |
| SoR 095 | Boston Post Road Canoeport, | Amherst | 42 49' 37.77N | 71 35' 7.02W | D'Angelo | 326 | 6.51 | 6.68 |
| **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 | - |
| BeB 740 | Beaver Brook, Manchester St Bridge | Amherst | 42.86639 | 71.62339 | Rob Clemens | 214 | no data | - |
| BeB 730 | Beaver Brook, Thorton Ferry 1 Road, Bridge | Amherst | 42.85906 | 71.6164 | Eric Doberstein | ? no data | 4.95 | - |
| BeB 730 | Beaver Brook, Thorton Ferry 1 Road, Bridge | Amherst | 42.85906 | 71.6164 | Rob Clemens | 326 | no data | - |
| BeB 700 | Beaver Brook, before confluence w/ Souhegan River (previously SoR 116) | Amherst | 72.83146 | 72.83146 | | no data | no data | - |
| **Souhegan River Sites** | | | | | | | | - |
| SoR 070 | Seaverns Bridge | Amherst | 42 50' 11" N | 71 33' 37" W | Eric Doberstein | 88 | 6.07 | - |
| SoR 057 | Indian Ledges | Merrimack | 42 51' 6.23N | 71 32' 54.40W | | no data | no data | - |
| SoR 034 | Turkey Hill Bridge, | Merrimack | 42 51' 32.66N | 71 31' 22.72W | Eric Doberstein | 613 | no data | - |
| SoR 015 | Wildcat Falls | Merrimack | | | | no data | no data | - |
| SoR 005 | West Chamberlain Rd, | Merrimack | 42 51' 22.78N | 71 29' 59.38W | *monitor needed* | no data | no data | - |
| SoR 001 | Watson Park (new request by Town of Merrimack for additional testing) | Merrimack | 42.86098N | 71.49277 W | John Debellis | 49 | 8.67 | - |
| | | | | | | | | |
| **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 | ? no data | 7.36 | - |
| Mer 540 | Sklar Waterfront Park, (Thortons Ferry) | Merrimack | 42 50' 35.09"N | 71 29' 01"W | Dick Widhu | 20 | 7.09 | - |
| Mer 530 | Greeley Park, Boat Ramp | Nashua | 42 47' 8.50"N | 71 27' 28.06"W | Ellen Kolb | 25 | 7.80 | - |
| Mer 520 | Taylors Falls Bridge | Nashua | 42 45' 43.16"N | 71 26' 40.68"W | J & C Hemmingsen | 461 | 7.20 | - |
| Mer 510 | Sagamore Bridge | Hudson | 42 42' 1.24"N | 71 26' 16.25"W | J & C Hemmingsen | 93 | 7.23 | - |
| 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

unacceptable

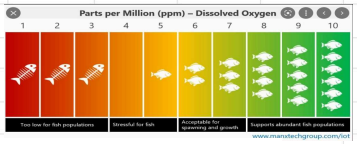
> 406 dangerous

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

Souhegan River Temps on 2022/08/30, ~ Water Monitor measured ranged from 18 to 24 Celcius, ( 65 to 75 F)

Merrimack River Temps on 2022/08/30, ~ Water Monitor measured temps ranged from 24 to 25.5 Celcius, (75 to 78 F)

| 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 |



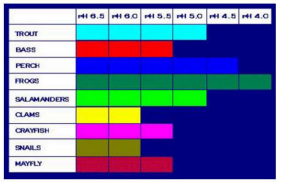




**Figure 6.** This table illustrates pH values that can be tolerated by different species.