

| Oct 17, 2009 Results                                    | Jelke Creek<br>Rte 31, s. of Boncosky<br>Rd<br>Rte 31 Bridge (NEW)  | Jelke Creek<br>Loc??<br>(NEW) | Tyler @<br>McCormack Rd | Tyler--Gilberts<br>Treatment Plant | Mill Creek--<br>Randall Rd | Mill Creek-- Fox<br>River Trail | Indian Creek--<br>Headwaters<br>Fermilab | Indian Creek--Biliter<br>Road |
|---|---|-------------------------------|-------------------------|------------------------------------|----------------------------|---------------------------------|--|-------------------------------|
| Testers sample labels->                                 |   |                               |                         |                                    |                            | "Mouth"                         |  | b4 wetlands                   |
|   | na  | na                            | 27                      | na                                 | na                         | na                              | 39.5                                     | 35.6                          |
| <b>Turbidity, FTU mg/L</b>                              | 0   | 2                             | 10                      | 10                                 | 8                          | 9                               | 0  | 10                            |
| Hach prog 630<br>method 2                               |   |                               |                         |                                    |                            |                                 |  |                               |
| DI water used   |   |                               |                         |                                    |                            |                                 |  |                               |
| 2001 Average  | na  | na                            | 6.7                     | na                                 | na                         | na                              | 7.5                                      | 8.3                           |
| <b>pH</b>   | 7.56  | 7.57                          | 7.34                    | 7.43                               | 7.73                       | 7.80                            | 7.07                                     | 7.60                          |
| Fisher Scientific                                       |   |                               |                         |                                    |                            |                                 |  |                               |
| 2001 Average  | na  | na                            | 11.12                   | na                                 | na                         | na                              | 8.55                                     | 5.13                          |
| <b>Nitrate, mg/L</b>                                    | 2.9   | 0.1                           | 0.0                     | 0.3                                | 0.5                        | 0.3                             | 0.0                                      | 0.0                           |
| Hach Progm 353  |   |                               |                         |                                    |                            |                                 |  |                               |
| Tap water for zero                                      |   |                               |                         |                                    |                            |                                 |  |                               |
| 2001 Average  | na  | na                            | na                      | na                                 | na                         | na                              | na                                       | na                            |
| <b>Nitrite N, mg/L</b>                                  | 0.000   | 0.249                         | 0.003                   | 0.002                              | 0.003                      | 0.006                           | 0.000                                    | 0.002                         |
| Hach prg375   |   |                               | read at 20.5 min        |                                    |                            |                                 |  |                               |
| DI water for zero                                       |   |                               |                         |                                    |                            |                                 |  |                               |
| 2001 Average  | na  | na                            | 0.93                    | na                                 | na                         | na                              | 2.59                                     | 0.99                          |
| <b>Phosphate, mg/L<br/>no dilution</b>                  | 24.8  | 12.5                          | 11.9                    | 48.3                               | 16.4                       | 13.0                            | 10.0                                     | 11.3                          |
| Phosphorus Molybdovanadate<br>Hach Prg 482, method 8114 |   |                               |                         |                                    |                            |                                 |  |                               |
| DI water for zero                                       |   |                               |                         |                                    |                            |                                 |  |                               |
| <b>Coliform (Total in 1 ml of<br/>water)</b>            | 8   |                               |                         |                                    |                            |                                 | 65                                       |                               |
| <b>E.Coli</b>   | 1   |                               |                         |                                    |                            |                                 | 2  |                               |
| <b>Other</b>  | 0   |                               |                         |                                    |                            |                                 | 1  |                               |
| OR = Over Range<br>(i.e., >5.00)                        |   |                               |                         |                                    |                            |                                 |  |                               |
| NT = Not Tested   |   |                               |                         |                                    |                            |                                 |  |                               |
| <b>Weather:</b>   | Previous week rainy & cool (lows in lower 30s, highs in mid to low 40s.<br>Oct. 17 = partial sunshine, low 32, high 50, Temperature when collecting samples between 30 & 40 degrees F.  |                               |                         |                                    |                            |                                 |  |                               |
| <b>Notes:</b>   | Distilled water not completely clean -- used tap water for Nitrate zero   |                               |                         |                                    |                            |                                 |  |                               |
|   | Coliform is reported above as the number of bacteria in 1 ml of water. Presumably, there would be 1000 times as many in 1 liter of water.<br>It looks pretty obvious that by the time the water gets to the mouth of the creek, lots of wildlife have encountered it. |                               |                         |                                    |                            |                                 |  |                               |

| <b>Oct 17, 2009 Results</b>                             | Indian Creek--<br>Leave Wetland<br>(188) | Indian Creek--<br>Mouth | Waubonsee Creek<br>- Hudson Xing | Blackberry--<br>Concord | Blackberry--<br>Bristol Ridge | Blackberry-- HRU<br>Calibration Station<br>(NEW) |
|---|--|-------------------------|----------------------------------|-------------------------|-------------------------------|--|
| Testers sample labels->                                 |  |                         |                                  |                         |                               |  |
|   | 10.6                                     | 37                      | na                               | na                      | na                            | na   |
| <b>Turbidity, FTU mg/L</b>                              | 8  | 0                       | 2                                | 7                       | 3                             | 12   |
| Hach prog 630<br>method 2                               |  |                         |                                  |                         |                               |  |
| DI water used   |  |                         |                                  |                         |                               |  |
| 2001 Average  | 8.1                                      | 8.0                     | na                               | na                      | na                            | na   |
| <b>pH</b>   | 7.64                                     | 7.79                    | 7.81                             | 7.88                    | 7.94                          | 7.65   |
| Fisher Scientific                                       |  |                         |                                  |                         |                               |  |
|   |  |                         |                                  |                         |                               |  |
| 2001 Average  | 5.78                                     | 6.2                     | na                               | na                      | na                            | na   |
| <b>Nitrate, mg/L</b>                                    | 0.0                                      | 0.0                     | 0.0                              | 0.0                     | 0.0                           | 0.6  |
| Hach Progm 353  |  |                         |                                  |                         |                               |  |
| Tap water for zero                                      |  |                         |                                  |                         |                               |  |
| 2001 Average  | na                                       | na                      | na                               | na                      | na                            | na   |
| <b>Nitrite N, mg/L</b>                                  | 0.002                                    | 0.000                   | 0.004                            | 0.009                   | 0.001                         | 0.016  |
| Hach prg375   |  |                         |                                  |                         |                               |  |
| DI water for zero                                       |  |                         |                                  |                         |                               |  |
| 2001 Average  | 0.53                                     | 1.0                     | na                               | na                      | na                            | na   |
| <b>Phosphate, mg/L<br/>no dilution</b>                  | 10.8                                     | 15.5                    | 9.8                              | 6.5                     | 11.4                          | 17.8   |
| Phosphorus Molybdovanadate<br>Hach Prg 482, method 8114 |  |                         |                                  |                         |                               |  |
| DI water for zero                                       |  |                         |                                  |                         |                               |  |
| <b>Coliform (Total in 1 ml of<br/>water)</b>            |  | 169                     |                                  |                         |                               |  |
| <b>E.Coli</b>   |  | 11                      |                                  |                         |                               |  |
| <b>Other</b>  |  | 0                       |                                  |                         |                               |  |
|   |  |                         |                                  |                         |                               |  |
| OR = Over Range<br>(i.e., >5.00)                        |  |                         |                                  |                         |                               |  |
| NT = Not Tested   |  |                         |                                  |                         |                               |  |
|   |  |                         |                                  |                         |                               |  |
| <b>Weather:</b>   |  |                         |                                  |                         |                               |  |
| <b>Notes:</b>   |  |                         |                                  |                         |                               |  |
|   |  |                         |                                  |                         |                               |  |