

2014 BAKER RIVER WATERSHED VRAP DATA

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| | Measurements not meeting New Hampshire surface water quality standards |
| | Measurements not meeting NHDES quality assurance/quality control standards |

^A Specific conductance > 835 $\mu\text{S}/\text{cm}$ indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

^C Calculated using 1/2 of the 0.25 mg/L detectin limit of Total Kjeldahl Nitrogen (0.125 mg/L)

11-BKR, Baker River, Mooselauke Bridge, Warren

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance ($\mu\text{S}/\text{cm}$) | Water Temp. ($^{\circ}\text{C}$) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|-----------------|----------------|----------------|------------------------------|----------------|------------------------------------|--|------------------------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835$\mu\text{S}/\text{cm}$^A | NA | <406 | <126 |
| 06/16/2014 | 7:08 | | | | | | | <10 | |
| 07/21/2014 | 7:22 | | | 6.17 | 0.45 | 49.3 | 13.0 | <10 | |
| 08/18/2014 | 7:07 | 10.58 | 102.7 | 6.13 | 0.12 | 35.0 | 12.5 | <10 | |
| 09/15/2014 | 7:16 | 11.42 | 105.6 | 6.74 | | 31.5 | 11.6 | <10 | 5 |

10-BKR, Baker River, Batchelder Bridge Warren

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:20 | | | | | | | 10 | |
| 07/21/2014 | 7:38 | | | 5.89 | 0.32 | 43.9 | 13.5 | 10 | |
| 08/18/2014 | 7:19 | 9.99 | 97.9 | 6.07 | 0.26 | 41.3 | 12.5 | 10 | |
| 09/15/2014 | 7:32 | 10.82 | 98.7 | 6.72 | | 39.3 | 11.2 | <10 | 8 |

08-BKR, Baker River, Bixby Bridge, Warren

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:30 | | | | | | | 10 | |
| 07/21/2014 | 7:58 | | | 5.86 | 0.25 | 62.8 | 15.5 | <10 | |
| 08/18/2014 | 7:33 | 9.11 | 93.0 | 5.79 | 0.21 | 55.1 | 14.0 | <10 | |
| 09/15/2014 | 7:44 | 9.78 | 92.7 | 6.31 | | 56.6 | 12.9 | 20 | 8 |

07A-BKR, Baker River, Town Park, Wentworth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E.coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 6:45 | | | | | | | 10 | |
| 07/21/2014 | 7:00 | | | 6.07 | 0.30 | 72.4 | 17.0 | 30 | |
| 08/18/2014 | 7:20 | 9.47 | 96.8 | 5.93 | 0.23 | 59.6 | 16.0 | 10 | |
| 09/15/2014 | 7:35 | 10.49 | 99.3 | 6.26 | | 79.5 | 12.8 | 10 | 14 |

07-BKR, Baker River, Wentworth Town Beach, Wentworth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E.coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:05 | | | | | | | 10 | |
| 07/21/2014 | 7:16 | | | 6.15 | 0.23 | 74.7 | 17.0 | 10 | |
| 08/18/2014 | 7:30 | 9.44 | 96.8 | 6.01 | 0.24 | 63.7 | 16.0 | 30 | |
| 09/15/2014 | 7:47 | 10.42 | 98.2 | 6.30 | | 81.1 | 12.7 | 120 | 33 |

06A-BKR, Baker River, Silver Bridge, Saunders Hill Road, Wentworth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:20 | | | | | | | 50 | |
| 07/21/2014 | 7:26 | | | 5.93 | 0.27 | 75.1 | 17.0 | 30 | |
| 08/18/2014 | 7:45 | 9.33 | 95.8 | 5.88 | 0.26 | 64.2 | 17.0 | 60 | |
| 09/15/2014 | 7:35 | 10.22 | 96.1 | 6.28 | | 84.0 | 12.6 | 10 | 26 |

06-SBR, South Branch Baker River, North Dorchester Road Bridge, Wentworth - NHDES Trend Station

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (µS/cm) | Water Temp. (°C) | Chloride (mg/L) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|------------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 936 µS/cm ^A | NA | <230 mg/L ^B | <406 | <126 |
| 01/30/2014 | 9:30 | 14.57 | 100.2 | 6.18 | 0.58 | 43.0 | 0.2 | 4.7 | | |
| 06/24/2014 | 9:00 | 8.65 | 87.1 | 6.71 | 0.41 | 54.5 | 16.8 | 7.3 | 10 | |
| 07/15/2014 | 10:00 | 8.64 | 97.3 | 6.68 | 0.60 | 50.0 | 21.1 | 6.5 | 40 | |
| 08/20/2014 | 10:20 | 10.38 | 104.4 | 6.41 | 0.74 | 47.2 | 15.6 | 5.1 | 10 | 16 |

| Date | Time of Sample | Total Phosphous | Nitrite (NO ₂) + Nitrate (NO ₃) (mg/L) | Total Kjehldahl Nitrogen (TKN) (mg/L) | Total Nitrogen (mg/L) |
|------------|----------------|-----------------|--|---------------------------------------|-----------------------|
| Standard | NA | NA | NA | NA | NA |
| 01/30/2014 | 9:30 | 0.0051 | 0.170 | ND | 0.295 ^C |
| 06/24/2014 | 9:00 | 0.0064 | 0.082 | ND | 0.207 ^C |
| 07/15/2014 | 10:00 | 0.0066 | 0.077 | ND | 0.202 ^C |
| 08/20/2014 | 10:20 | 0.0065 | 0.063 | ND | 0.188 ^C |

05-BKR, Baker River, Sandhill Bridge, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 6:43 | | | | | | | 70 | |
| 07/21/2014 | 7:21 | | | 6.07 | 0.52 | 73.3 | 19.0 | 20 | |
| 08/18/2014 | 7:50 | 8.95 | 90.5 | 6.05 | 0.52 | 60.9 | 15.9 | 40 | |
| 09/15/2014 | 8:45 | 10.85 | 102.7 | 6.59 | | 80.5 | 12.8 | 30 | 29 |

04G-BKR, Baker River, USGS Gage Station, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:17 | | | | | | | 100 | |
| 07/21/2014 | 7:26 | | | 6.54 | 0.43 | 64.7 | 17.0 | <10 | |
| 08/18/2014 | 8:40 | 8.87 | 89.7 | 6.00 | 0.52 | 62.9 | 15.9 | 40 | |
| 09/15/2014 | 8:55 | 10.46 | 100.5 | 6.52 | | 82.5 | 13.6 | 50 | 22 |

04-BKR, Baker River, Stinson Lake Road Bridge/New Town Bridge, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 6:53 | | | | | | | 30 | |
| 07/21/2014 | 7:08 | | | 5.86 | 0.47 | 76.3 | 18.5 | 70 | |
| 08/18/2014 | 8:18 | 8.93 | 90.0 | 6.06 | 0.59 | 65.9 | 15.7 | 60 | |
| 09/15/2014 | 8:35 | 10.18 | 97.6 | 6.58 | | 89.2 | 13.4 | 30 | 50 |

03-BKR, Baker River, Route 25 D/S of School Street & Gravel Pit, Rumney

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:25 | | | | | | | 90 | |
| 07/21/2014 | 7:49 | | | 6.05 | 0.71 | 76.7 | 18.0 | 10 | |
| 08/18/2014 | 8:55 | 9.15 | 92.5 | 6.06 | 0.62 | 61.9 | 15.9 | 100 | |
| 09/15/2014 | 9:05 | 10.77 | 105.7 | 6.56 | | 88.5 | 14.5 | 30 | 31 |

02-BKR, Baker River, Covered Bridge/Smith Bridge Road, Plymouth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 7:50 | | | | | | | 40 | |
| 07/21/2014 | 8:05 | | | 5.92 | 1.00 | 81.5 | 18.5 | 90 | |
| 08/18/2014 | 7:15 | 9.00 | 93.8 | 5.85 | 2.02 | 66.6 | 17.3 | 80 | |
| 09/15/2014 | 7:45 | 10.13 | 99.7 | 6.57 | | 99.0 | 14.7 | 90 | 87 |

01A-BKR, Baker River, Tenney Mountain Highway Bridge, Plymouth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 6:15 | | | | | | | 60 | |
| 07/21/2014 | 7:45 | | | 6.09 | 0.94 | 83.8 | 18.3 | 40 | |
| 08/18/2014 | 7:05 | 8.69 | 91.5 | 5.93 | 1.71 | 66.3 | 18.0 | 120 | |
| 09/15/2014 | 7:35 | 8.64 | 86.1 | 6.48 | | 103.7 | 15.2 | 70 | 70 |

01-BKR, Baker River, Green Bridge (Route 3/25 Bridge), Plymouth

| Date | Time of Sample | DO (mg/L) | DO (% sat.) | pH | Turbidity (NTUs) | Specific Conductance (uS/cm) | Water Temp. (°C) | <i>E. coli</i> (CTS/100mL) | <i>E. coli</i> Geometric Mean |
|------------|----------------|-----------|--------------------|---------|--------------------------|------------------------------|------------------|----------------------------|-------------------------------|
| Standard | NA | >5.0 | >75% Daily Average | 6.5-8.0 | <10 NTU above background | 835µS/cm ^A | NA | <406 | <126 |
| 06/16/2014 | 5:50 | | | | | | | 50 | |
| 07/21/2014 | 7:20 | | | 6.05 | 1.00 | 90.6 | 18.0 | 40 | |
| 08/18/2014 | 6:55 | 9.22 | 98.1 | 5.95 | 1.71 | 70.3 | 18.5 | 80 | |
| 09/15/2014 | 7:25 | 9.81 | 96.9 | 6.60 | | 108.1 | 14.8 | 70 | 61 |

