

Table 3. Summary of measured constituents and properties for Big Thompson River below Moraine Park, station 402114105350101
[--, no data or not applicable; L, low; M, Medium; H, High; LRL Lab Reporting Level; *, value is censored, see Definition of Terms for censored value replacement rules]

| Constituent or property | Period (water years) | Number of samples | Number of censored values | Minimum | Median | Maximum | Date of Maximum | 15th percentile | 85th percentile | Standard or Chronic standard | Number of exceedences Chronic | Acute standard | Number of exceedences Acute | LRL | Level of concern |
|--|----------------------|-------------------|---------------------------|---------|--------|---------|-----------------|-----------------|-----------------|------------------------------|-------------------------------|----------------|-----------------------------|-------|------------------|
| Instantaneous discharge, in cubic feet per second | 2001-2008 | 160 | 0 | 2.10 | 39.2 | 482 | 03/23/04 | 5.96 | 153 | -- | -- | -- | -- | -- | -- |
| Instantaneous discharge, in cubic feet per second | 2009-2010 | 21 | 0 | 2.95 | 11.0 | 485 | 06/09/10 | 4.54 | 140 | -- | -- | -- | -- | -- | -- |
| Turbidity, in NTRU | 2008-2008 | 9 | 1 | 0 * | 1.2 | 1.8 | 07/07/08 | 0.5 | 1.7 | -- | -- | -- | -- | 2 | -- |
| Turbidity, in NTRU | 2009-2010 | 21 | 12 | 0 * | 0 * | 4.2 | 06/09/10 | 0 * | 2.2 | -- | -- | -- | -- | -- | -- |
| Dissolved oxygen, in milligrams per liter | 2001-2008 | 64 | 0 | 7.4 | 10.1 | 12.3 | 08/01/03 | 9.2 | 10.6 | 6.0 | 0 | -- | -- | -- | L |
| Dissolved oxygen, in milligrams per liter | 2009-2010 | 21 | 0 | 8.7 | 9.8 | 10.7 | 10/14/08 | 8.9 | 10.5 | 6.0 | 0 | -- | -- | -- | L |
| pH, in standard units | 2001-2008 | 69 | 0 | 6.6 | 7.1 | 7.8 | 01/09/08 | 6.9 | 7.3 | 6.5 | 0 | 9.0 | -- | -- | L |
| pH, in standard units | 2009-2010 | 21 | 0 | 6.9 | 7.3 | 8.3 | 05/05/10 | 7.1 | 7.8 | 6.5 | 0 | 9.0 | -- | -- | L |
| Specific conductance, in uS/cm | 2001-2008 | 72 | 0 | 13.0 | 22.0 | 61.0 | 04/04/03 | 14.4 | 30.0 | -- | -- | -- | -- | -- | -- |
| Specific conductance, in uS/cm | 2009-2010 | 33 | 0 | 12.7 | 20.6 | 36.0 | 03/09/10 | 13.4 | 31.9 | -- | -- | -- | -- | -- | -- |
| Temperature, Degrees C | 2001-2008 | 161 | 0 | -1.5 | 6.5 | 18.0 | 07/17/07 | 0.3 | 12.0 | 17.0 | 3 | -- | -- | -- | L |
| Temperature, Degrees C | 2009-2010 | 52 | 0 | 0.0 | 6.8 | 17.5 | 08/25/10 | 0.7 | 12.4 | 17.0 | 3 | -- | -- | -- | L |
| Calcium, in milligrams per liter | 2001-2008 | 151 | 0 | 1.13 | 2.05 | 3.61 | 05/03/05 | 1.42 | 2.81 | -- | -- | -- | -- | -- | -- |
| Calcium, in milligrams per liter | 2009-2010 | 47 | 0 | 1.16 | 2.09 | 3.19 | 05/11/10 | 1.38 | 3.06 | -- | -- | -- | -- | -- | -- |
| Magnesium, in milligrams per liter | 2001-2008 | 151 | 0 | 0.28 | 0.52 | 1.07 | 05/03/05 | 0.34 | 0.76 | -- | -- | -- | -- | -- | -- |
| Magnesium, in milligrams per liter | 2009-2010 | 47 | 0 | 0.29 | 0.56 | 0.88 | 03/09/10 | 0.34 | 0.81 | -- | -- | -- | -- | -- | -- |
| Potassium, in milligrams per liter | 2001-2008 | 145 | 0 | 0.17 | 0.31 | 0.60 | 06/02/05 | 0.23 | 0.40 | -- | -- | -- | -- | -- | -- |
| Potassium, in milligrams per liter | 2009-2010 | 47 | 0 | 0.18 | 0.33 | 0.58 | 03/23/10 | 0.20 | 0.43 | -- | -- | -- | -- | -- | -- |
| Sodium, in milligrams per liter | 2001-2008 | 160 | 0 | 0.62 | 1.13 | 2.39 | 05/03/05 | 0.78 | 1.89 | -- | -- | -- | -- | -- | -- |
| Sodium, in milligrams per liter | 2009-2010 | 47 | 0 | 0.52 | 1.31 | 2.35 | 03/23/10 | 0.75 | 2.01 | -- | -- | -- | -- | -- | -- |
| Alkalinity, in milligrams per liter | 2008-2008 | 9 | 0 | 6.75 | 10.1 | 13.6 | 03/20/08 | 6.96 | 12.9 | -- | -- | -- | -- | 5 | -- |
| Alkalinity, in milligrams per liter | 2009-2010 | 4 | 0 | 8.80 | 9.17 | 9.90 | 11/03/08 | 8.80 | 9.90 | -- | -- | -- | -- | -- | -- |
| Chloride, in milligrams per liter | 2001-2008 | 171 | 7 | 0 * | 0.21 | 1.11 | 05/10/01 | 0.10 | 0.37 | 250 | 0 | -- | -- | -- | L |
| Chloride, in milligrams per liter | 2009-2010 | 48 | 0 | 0.08 | 0.22 | 0.62 | 05/04/10 | 0.10 | 0.44 | 250 | 0 | -- | -- | -- | L |
| Fluoride in milligrams per liter | 2001-2001 | 8 | 2 | 0 * | 0.12 | 0.18 | 02/09/01 | 0 * | 0.17 | -- | -- | -- | -- | -- | -- |
| Silica, in milligrams per liter | 2001-2008 | 148 | 0 | 2.59 | 4.89 | 7.77 | 05/03/05 | 3.12 | 7.07 | -- | -- | -- | -- | -- | -- |
| Silica, in milligrams per liter | 2009-2010 | 45 | 0 | 2.78 | 5.14 | 8.07 | 02/01/10 | 3.12 | 7.68 | -- | -- | -- | -- | -- | -- |
| Sulfate, in milligrams per liter | 2001-2008 | 172 | 0 | 0.95 | 2.22 | 11.7 | 04/04/03 | 1.35 | 3.36 | 250 | 0 | -- | -- | -- | L |
| Sulfate, in milligrams per liter | 2009-2010 | 48 | 0 | 1.11 | 2.43 | 4.33 | 05/04/10 | 1.28 | 3.58 | 250 | 0 | -- | -- | -- | L |
| Residue, in milligrams per liter | 2001-2008 | 17 | 1 | 0 * | 23.0 | 47.1 | 05/05/08 | 14.3 | 38.3 | -- | -- | -- | -- | 10 | -- |
| Residue, in milligrams per liter | 2009-2010 | 21 | 2 | 0 * | 21.2 | 42.0 | 05/07/09 | 13.5 | 30.0 | -- | -- | -- | -- | -- | -- |
| Ammonia plus organic nitrogen in milligrams per liter | 2001-2008 | 41 | 1 | 0 * | 0.111 | 0.436 | 04/04/03 | 0.087 | 0.208 | -- | -- | -- | -- | 0.14 | -- |
| Ammonia plus organic nitrogen in milligrams per liter | 2009-2010 | 21 | 0 | 0.071 | 0.126 | 0.404 | 05/07/09 | 0.090 | 0.230 | -- | -- | -- | -- | -- | -- |
| Ammonia nitrogen, in milligrams per liter | 2001-2008 | 95 | 62 | 0 * | 0 * | 0.053 | 04/04/03 | 0 * | 0.008 | 5.59 | 0 | 21.8 | 0 | 0.02 | L |
| Ammonia nitrogen, in milligrams per liter | 2009-2010 | 21 | 18 | 0 * | 0 * | 0.025 | 04/07/10 | 0 * | 0.008 | 4.62 | 0 | 15.9 | 0 | -- | L |
| Nitrite plus nitrate nitrogen, in milligrams per liter | 2001-2008 | 168 | 0 | 0.059 | 0.133 | 0.689 | 04/04/03 | 0.087 | 0.195 | 10.0 | 0 | -- | -- | 0.016 | L |
| Nitrite plus nitrate nitrogen, in milligrams per liter | 2009-2010 | 41 | 0 | 0.049 | 0.088 | 0.205 | 01/06/09 | 0.069 | 0.170 | 10.0 | 0 | -- | -- | -- | L |
| Nitrite nitrogen, in milligrams per liter | 2001-2006 | 50 | 31 | 0 * | 0 * | 0.004 | 04/04/03 | 0 * | 0.001 | 0.05 | 0 | -- | -- | 0.002 | L |
| Total nitrogen, in milligrams per liter | 2004-2008 | 101 | 0 | 0.143 | 0.280 | 0.807 | 03/22/05 | 0.203 | 0.365 | -- | -- | -- | -- | 0.06 | -- |
| Total nitrogen, in milligrams per liter | 2009-2010 | 51 | 0 | 0.072 | 0.260 | 0.396 | 05/07/09 | 0.143 | 0.336 | -- | -- | -- | -- | -- | -- |
| Total nitrogen (total), in milligrams per liter | 2004-2006 | 18 | 0 | 0.195 | 0.284 | 0.403 | 05/04/04 | 0.231 | 0.337 | -- | -- | -- | -- | 0.06 | -- |

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|---|----------------------|-------------------|---------------------------|---------|--------|---------|-----------------|-----------------|-----------------|------------------------------|-------------------------------|----------------|-----------------------------|-------|------------------|
| Orthophosphate, in milligrams per liter | 2001-2008 | 59 | 48 | 0 * | 0 * | 0.006 | 10/06/04 | 0 * | 0.003 | -- | -- | -- | -- | 0.006 | -- |
| Orthophosphate, in milligrams per liter | 2009-2010 | 21 | 9 | 0 * | 0.004 | 0.007 | 02/01/10 | 0 * | 0.005 | -- | -- | -- | -- | -- | -- |
| Phosphorus, in milligrams per liter | 2001-2008 | 29 | 12 | 0 * | 0.003 | 0.007 | 06/09/08 | 0 * | 0.005 | -- | -- | -- | -- | 0.006 | -- |
| Phosphorus, in milligrams per liter | 2009-2010 | 21 | 11 | 0 * | 0 * | 0.007 | 05/07/09 | 0 * | 0.005 | -- | -- | -- | -- | -- | -- |
| Phosphorus (total), in milligrams per liter | 2001-2008 | 59 | 0 | 0.003 | 0.006 | 0.019 | 06/05/03 | 0.004 | 0.011 | -- | -- | -- | -- | 0.008 | -- |
| Phosphorus (total), in milligrams per liter | 2009-2010 | 21 | 3 | 0 * | 0.006 | 0.022 | 05/07/09 | 0.001 | 0.011 | -- | -- | -- | -- | -- | -- |
| Organic carbon, in milligrams per liter | 2001-2008 | 156 | 0 | 1.17 | 2.18 | 14.5 | 06/02/05 | 1.51 | 6.79 | -- | -- | -- | -- | -- | -- |
| Organic carbon, in milligrams per liter | 2009-2010 | 46 | 0 | 1.32 | 2.17 | 12.5 | 05/07/09 | 1.56 | 7.99 | -- | -- | -- | -- | -- | -- |
| Organic carbon (total), in milligrams per liter | 2008-2008 | 9 | 0 | 1.70 | 2.00 | 7.40 | 06/09/08 | 1.75 | 7.10 | -- | -- | -- | -- | 0.5 | -- |
| Organic carbon (total), in milligrams per liter | 2009-2010 | 21 | 0 | 1.60 | 2.00 | 13.8 | 05/07/09 | 1.70 | 6.85 | -- | -- | -- | -- | -- | -- |
| Arsenic, in micrograms per liter | 2001-2008 | 22 | 13 | 0 * | 0 * | 0.14 | 05/05/08 | 0 * | 0.11 | -- | -- | -- | -- | 0.06 | -- |
| Arsenic, in micrograms per liter | 2009-2010 | 21 | 1 | 0 * | 0.07 | 0.23 | 05/07/09 | 0.06 | 0.14 | -- | -- | -- | -- | -- | -- |
| Copper, in micrograms per liter | 2001-2008 | 22 | 12 | 0 * | 0 * | 2.22 | 05/05/08 | 0 * | 2.02 | 1.14 | 8 | 1.39 | 6 | 1 | H |
| Copper, in micrograms per liter | 2009-2010 | 21 | 2 | 0 * | 1.23 | 3.37 | 09/15/10 | 0.72 | 2.85 | 1.14 | 12 | 1.39 | 9 | -- | H |
| Iron, in micrograms per liter | 2001-2008 | 32 | 7 | 0 * | 99.0 | 190 | 04/01/02 | 0 * | 156 | 300 | 0 | -- | -- | 8 | M |
| Iron, in micrograms per liter | 2009-2010 | 21 | 0 | 47.7 | 93.6 | 227 | 05/05/10 | 57.2 | 160 | 300 | 0 | -- | -- | -- | M |
| Lead, in micrograms per liter | 2001-2008 | 22 | 16 | 0 * | 0 * | 0.08 | 07/07/08 | 0 * | 0.06 | 0.17 | 0 | 4.34 | 0 | 0.08 | L |
| Lead, in micrograms per liter | 2009-2010 | 21 | 7 | 0 * | 0.02 | 0.12 | 10/14/08 | 0 * | 0.06 | 0.17 | 0 | 4.34 | 0 | -- | L |
| Manganese, in micrograms per liter | 2001-2008 | 32 | 3 | 0 * | 5.53 | 20.0 | 04/01/02 | 2.33 | 15.1 | 739 | 0 | 1338 | 0 | 0.2 | L |
| Manganese, in micrograms per liter | 2009-2010 | 21 | 0 | 2.25 | 5.77 | 28.6 | 03/09/10 | 3.39 | 14.2 | 739 | 0 | 1338 | 0 | -- | L |
| Mercury, in nanograms per liter | 2008-2008 | 9 | 0 | 0.70 | 2.00 | 6.01 | 06/09/08 | 0.80 | 5.00 | 10.0 | 0 | -- | -- | 0.04 | L |
| Mercury, in nanograms per liter | 2009-2010 | 16 | 0 | 1.06 | 1.39 | 10.6 | 05/07/09 | 1.12 | 5.59 | 10.0 | 1 | -- | -- | -- | M |
| Nickel, in micrograms per liter | 2001-2008 | 22 | 13 | 0 * | 0 * | 0.92 | 06/09/08 | 0 * | 0.33 | 6.77 | 0 | 61.0 | 0 | 0.2 | L |
| Nickel, in micrograms per liter | 2009-2010 | 21 | 0 | 0.12 | 0.22 | 0.46 | 05/07/09 | 0.17 | 0.37 | 6.77 | 0 | 61.0 | 0 | -- | L |
| Silver, in micrograms per liter | 2001-2008 | 22 | 22 | 0 * | 0 * | 0 * | 03/14/01 | 0 * | 0 * | 0.00 | 0 | 0.03 | 0 | 0.1 | L |
| Silver, in micrograms per liter | 2009-2010 | 21 | 20 | 0 * | 0 * | 0.01 | 05/07/09 | 0 * | 0 * | 0.00 | 1 | 0.03 | 0 | -- | L |