

Table 5. Summary of measured constituents and properties for Big Thompson River below outflow above Lake Estes, station 402245105302300
[--, 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	2000-2008	123	0	6.70	53.2	1060	06/02/03	14.8	348	--	--	--	--	--	--
Instantaneous discharge, in cubic feet per second	2009-2010	27	0	11.4	59.8	1062	06/09/10	15.8	408	--	--	--	--	--	--
Turbidity, in NTRU	2005-2008	54	24	0 *	1.4	13.0	04/09/07	0 *	4.2	--	--	--	--	2	--
Turbidity, in NTRU	2009-2010	21	8	0 *	1.2	7.4	06/09/10	0 *	2.9	--	--	--	--	--	--
Dissolved oxygen, in milligrams per liter	2000-2008	120	0	6.8	9.9	13.9	05/21/01	8.5	12.0	6.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2009-2010	27	0	8.2	9.9	12.5	03/11/09	8.5	12.2	6.0	0	--	--	--	L
pH, in standard units	2000-2008	123	0	6.9	7.7	8.9	12/03/01	7.3	8.3	6.5	0	9.0	--	--	L
pH, in standard units	2009-2010	27	0	7.3	7.7	8.6	05/05/10	7.4	7.8	6.5	0	9.0	--	--	L
Specific conductance, in uS/cm	2000-2008	123	0	16.0	39.0	129	12/08/03	20.0	75.0	--	--	--	--	--	--
Specific conductance, in uS/cm	2009-2010	27	0	18.0	44.0	129	03/11/09	21.2	73.8	--	--	--	--	--	--
Temperature, Degrees C	2000-2008	123	0	0.0	6.0	17.0	08/05/02	0.8	12.5	17.0	0	--	--	--	L
Temperature, Degrees C	2009-2010	27	0	-0.0	6.3	14.1	07/28/10	0.6	13.1	17.0	0	--	--	--	L
Calcium, in milligrams per liter	2000-2008	117	0	1.60	3.43	7.37	04/08/08	1.93	5.94	--	--	--	--	0.04	--
Calcium, in milligrams per liter	2009-2010	21	0	1.46	3.83	8.26	03/11/09	2.00	6.31	--	--	--	--	--	--
Magnesium, in milligrams per liter	2000-2008	117	0	0.41	0.95	2.17	04/08/08	0.50	1.75	--	--	--	--	0.02	--
Magnesium, in milligrams per liter	2009-2010	21	0	0.39	1.27	3.22	03/11/09	0.55	2.00	--	--	--	--	--	--
Potassium, in milligrams per liter	2002-2008	93	0	0.25	0.57	1.64	11/13/06	0.32	0.91	--	--	--	--	0.02	--
Potassium, in milligrams per liter	2009-2010	21	0	0.24	0.71	1.85	03/11/09	0.31	0.94	--	--	--	--	--	--
Sodium, in milligrams per liter	2000-2008	117	0	0.90	2.82	17.4	12/08/03	1.21	5.42	--	--	--	--	0.12	--
Sodium, in milligrams per liter	2009-2010	21	0	1.01	3.28	10.7	03/11/09	1.34	5.39	--	--	--	--	--	--
Alkalinity, in milligrams per liter	2002-2008	92	0	5.98	13.4	30.4	11/13/06	7.92	22.4	--	--	--	--	5	--
Alkalinity, in milligrams per liter	2009-2010	21	0	7.41	15.9	37.9	03/11/09	9.14	23.8	--	--	--	--	--	--
Chloride, in milligrams per liter	2000-2008	116	3	0 *	2.35	24.6	12/08/03	0.74	5.71	250	0	--	--	0.12	L
Chloride, in milligrams per liter	2009-2010	21	0	0.56	2.97	11.2	03/11/09	0.87	8.04	250	0	--	--	--	L
Sulfate, in milligrams per liter	2000-2008	116	7	0 *	2.53	6.09	04/14/03	1.42	3.80	250	0	--	--	0.18	L
Sulfate, in milligrams per liter	2009-2010	21	0	1.36	2.98	6.66	03/11/09	1.54	4.39	250	0	--	--	--	L
Residue, in milligrams per liter	2000-2008	117	1	0 *	33.8	75.3	12/08/03	19.3	52.7	--	--	--	--	10	--
Residue, in milligrams per liter	2009-2010	21	0	10.3	38.9	72.8	03/11/09	21.6	61.7	--	--	--	--	--	--
Ammonia plus organic nitrogen in milligrams per liter	2000-2008	123	0	0.097	0.266	1.64	11/13/06	0.148	0.478	--	--	--	--	0.14	--
Ammonia plus organic nitrogen in milligrams per liter	2009-2010	27	0	0.108	0.176	1.60	03/11/09	0.141	0.299	--	--	--	--	--	--
Ammonia nitrogen, in milligrams per liter	2000-2008	123	24	0 *	0.041	1.29	11/13/06	0 *	0.264	3.35	0	10.2	0	0.02	L
Ammonia nitrogen, in milligrams per liter	2009-2010	27	18	0 *	0 *	1.25	03/11/09	0 *	0.024	3.72	0	10.7	0	--	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2000-2008	123	0	0.041	0.164	0.650	01/09/08	0.111	0.296	10.0	0	--	--	0.016	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2009-2010	27	0	0.051	0.106	0.372	01/06/09	0.065	0.254	10.0	0	--	--	--	L
Orthophosphate, in milligrams per liter	2000-2008	122	20	0 *	0.010	0.625	09/09/02	0 *	0.072	--	--	--	--	0.006	--
Orthophosphate, in milligrams per liter	2009-2010	27	0	0.004	0.037	0.131	03/09/10	0.006	0.089	--	--	--	--	--	--
Phosphorus, in milligrams per liter	2000-2008	122	0	0.003	0.016	0.659	09/09/02	0.006	0.079	--	--	--	--	0.006	--
Phosphorus, in milligrams per liter	2009-2010	27	0	0.003	0.041	0.131	03/09/10	0.005	0.098	--	--	--	--	--	--
Phosphorus (total), in milligrams per liter	2000-2008	122	0	0.010	0.032	0.686	09/09/02	0.017	0.105	--	--	--	--	0.008	--
Phosphorus (total), in milligrams per liter	2009-2010	27	0	0.011	0.061	0.145	03/09/10	0.013	0.111	--	--	--	--	--	--
Organic carbon (total), in milligrams per liter	2000-2008	98	0	1.50	2.21	8.69	05/23/05	1.90	4.63	--	--	--	--	0.5	--

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Organic carbon (total), in milligrams per liter	2009-2010	27	0	1.90	2.33	11.6	05/19/10	2.00	6.40	--	--	--	--	--	--
Arsenic, in micrograms per liter	2000-2008	117	61	0 *	0 *	0.15	12/06/04	0 *	0.12	--	--	--	--	0.06	--
Arsenic, in micrograms per liter	2009-2010	21	0	0.04	0.09	0.17	05/05/09	0.06	0.15	--	--	--	--	--	--
Cadmium, in micrograms per liter	2010-2010	8	4	0 *	0.01	0.05	02/03/10	0 *	0.04	0.12	0	0.39	0	--	L
Copper, in micrograms per liter	2000-2008	117	19	0 *	0.98	8.57	05/14/07	0 *	1.96	2.09	16	2.70	5	1	M
Copper, in micrograms per liter	2009-2010	21	2	0 *	1.20	5.72	09/14/10	0.68	2.23	2.09	3	2.70	2	--	H
Iron, in micrograms per liter	2000-2008	117	7	0 *	102	262	04/04/05	68.2	140	300	0	--	--	8	L
Iron, in micrograms per liter	2009-2010	21	0	56.8	114	211	05/05/10	74.8	178	300	0	--	--	--	M
Lead, in micrograms per liter	2000-2008	117	50	0 *	0.05	0.41	05/14/07	0 *	0.11	0.38	2	9.71	0	0.08	L
Lead, in micrograms per liter	2009-2010	21	2	0 *	0.04	0.09	11/03/08	0.02	0.07	0.38	0	9.71	0	--	L
Manganese, in micrograms per liter	2000-2008	117	9	0 *	5.40	15.4	02/14/07	2.99	8.85	935	0	1693	0	0.2	L
Manganese, in micrograms per liter	2009-2010	21	0	2.55	5.47	17.7	03/09/10	3.69	10.9	935	0	1693	0	--	L
Mercury, in nanograms per liter	2005-2008	9	0	0.90	2.58	6.50	05/14/07	1.25	5.70	10.0	0	--	--	0.04	M
Mercury, in nanograms per liter	2009-2010	6	0	0.92	1.86	6.23	06/09/10	0.92	6.19	10.0	0	--	--	--	M
Nickel, in micrograms per liter	2000-2008	116	24	0 *	0.24	1.63	04/10/06	0 *	0.41	12.3	0	111	0	0.2	L
Nickel, in micrograms per liter	2009-2010	21	0	0.16	0.28	0.56	03/11/09	0.17	0.44	12.3	0	111	0	--	L
Selenium, in micrograms per liter	2005-2007	5	2	0 *	0.05	0.05	09/19/05	0 *	0.05	4.60	0	18.4	0	0.08	L
Silver, in micrograms per liter	2000-2008	117	116	0 *	0 *	0.07	02/14/07	0 *	0 *	0.00	1	0.11	0	0.1	L
Silver, in micrograms per liter	2009-2010	21	17	0 *	0 *	0.08	03/11/09	0 *	0.00	0.00	4	0.11	0	--	H
Benzene (total), in micrograms per liter	2000-2008	112	112	0 *	0 *	0 *	08/29/00	0 *	0 *	2.20	0	--	--	0.4	L
Ethylbenzene (total), in micrograms per liter	2000-2008	109	107	0 *	0 *	0.80	10/22/01	0 *	0 *	530	0	--	--	0.4	L
m- + p-Xylene (total) in micrograms per liter	2000-2008	112	111	0 *	0 *	0.65	02/09/04	0 *	0 *	1400	0	--	--	0.4	L
o-Xylene (total), in micrograms per liter	2000-2008	112	111	0 *	0 *	0.46	02/09/04	0 *	0 *	1400	0	--	--	0.4	L
Toluene (total), in micrograms per liter	2000-2008	112	111	0 *	0 *	0.84	02/09/04	0 *	0 *	510	0	--	--	0.4	L