

Table 16. Summary of measured constituents and properties for Big Thompson River below power plant near Loveland, Co., station 402518105131300
[--, 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	109	0	7.80	146	1030	06/04/03	28.3	348	--	--	--	--	--	--
Instantaneous discharge, in cubic feet per second	2009-2009	4	0	26.3	36.0	292	10/15/08	26.3	292	--	--	--	--	--	--
Turbidity, in NTRU	2005-2008	54	24	0 *	1.5	6.3	05/25/05	0 *	3.7	--	--	--	--	2	--
Turbidity, in NTRU	2009-2009	4	1	0 *	1.3	1.6	12/09/08	0 *	1.6	--	--	--	--	2	--
Dissolved oxygen, in milligrams per liter	2001-2008	107	0	7.5	9.8	13.9	01/05/05	8.2	12.3	6.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2009-2009	4	0	10.1	11.0	12.5	12/09/08	10.1	12.5	6.0	0	--	--	--	L
pH, in standard units	2001-2008	108	0	7.0	7.7	8.6	02/08/06	7.4	8.2	6.5	0	9.0	--	--	L
pH, in standard units	2009-2009	4	0	7.5	7.8	8.0	10/15/08	7.5	8.0	6.5	0	9.0	--	--	L
Specific conductance, in uS/cm	2001-2008	109	0	23.0	58.0	138	03/26/03	33.0	82.5	--	--	--	--	--	--
Specific conductance, in uS/cm	2009-2009	4	0	60.0	67.7	81.7	01/07/09	60.0	81.7	--	--	--	--	--	--
Temperature, Degrees C	2001-2008	109	0	0.0	9.8	19.5	08/07/02	0.5	16.5	17.0	12	--	--	--	L
Temperature, Degrees C	2009-2009	4	0	0.1	3.7	9.4	10/15/08	0.1	9.4	17.0	0	--	--	--	L
Calcium, in milligrams per liter	2001-2008	108	0	2.43	6.00	12.2	03/26/03	3.43	8.08	--	--	--	--	0.04	--
Calcium, in milligrams per liter	2009-2009	4	0	6.26	6.83	7.39	01/07/09	6.26	7.39	--	--	--	--	0.02	--
Magnesium, in milligrams per liter	2001-2008	108	0	0.51	1.26	2.88	03/26/03	0.73	1.75	--	--	--	--	0.02	--
Magnesium, in milligrams per liter	2009-2009	4	0	1.34	1.36	1.52	01/07/09	1.34	1.52	--	--	--	--	0.012	--
Potassium, in milligrams per liter	2002-2008	93	0	0.33	0.76	1.37	03/26/03	0.46	1.02	--	--	--	--	0.02	--
Potassium, in milligrams per liter	2009-2009	4	0	0.75	0.87	1.01	01/07/09	0.75	1.01	--	--	--	--	0.06	--
Sodium, in milligrams per liter	2001-2008	108	0	1.39	3.05	8.32	03/26/03	1.77	5.08	--	--	--	--	0.12	--
Sodium, in milligrams per liter	2009-2009	4	0	2.62	3.79	4.67	01/07/09	2.62	4.67	--	--	--	--	0.12	--
Alkalinity, in milligrams per liter	2002-2008	93	0	9.02	22.1	31.1	02/15/07	11.9	28.1	--	--	--	--	5	--
Alkalinity, in milligrams per liter	2009-2009	4	0	24.0	25.4	27.2	01/07/09	24.0	27.2	--	--	--	--	8	--
Chloride, in milligrams per liter	2001-2008	108	1	0 *	2.14	12.9	03/26/03	1.01	4.57	250	0	--	--	0.12	L
Chloride, in milligrams per liter	2009-2009	4	0	1.13	2.99	3.93	01/07/09	1.13	3.93	250	0	--	--	0.12	L
Sulfate, in milligrams per liter	2001-2008	108	1	0 *	3.23	10.6	03/26/03	2.10	4.85	250	0	--	--	0.18	L
Sulfate, in milligrams per liter	2009-2009	4	0	3.49	3.84	4.58	01/07/09	3.49	4.58	250	0	--	--	0.18	L
Residue, in milligrams per liter	2001-2008	107	0	12.0	42.0	130	11/06/01	26.4	57.8	--	--	--	--	10	--
Residue, in milligrams per liter	2009-2009	4	0	40.8	46.2	56.7	01/07/09	40.8	56.7	--	--	--	--	10	--
Ammonia plus organic nitrogen in milligrams per liter	2001-2008	109	0	0.160	0.247	0.631	03/26/03	0.194	0.347	--	--	--	--	0.14	--
Ammonia plus organic nitrogen in milligrams per liter	2009-2009	4	0	0.220	0.232	0.255	12/09/08	0.220	0.255	--	--	--	--	0.1	--
Ammonia nitrogen, in milligrams per liter	2001-2008	109	24	0 *	0.012	0.140	01/09/02	0 *	0.028	3.12	0	9.34	0	0.02	L
Ammonia nitrogen, in milligrams per liter	2009-2009	4	2	0 *	0.007	0.050	01/07/09	0 *	0.050	3.25	0	8.73	0	0.02	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2001-2008	109	3	0 *	0.121	1.51	03/26/03	0.055	0.485	10.0	0	--	--	0.016	L
Nitrite plus nitrate nitrogen, in milligrams per liter	2009-2009	4	0	0.008	0.211	0.516	01/07/09	0.008	0.516	10.0	0	--	--	0.016	L
Orthophosphate, in milligrams per liter	2001-2008	109	17	0 *	0.009	0.089	02/11/08	0 *	0.037	--	--	--	--	0.006	--
Orthophosphate, in milligrams per liter	2009-2009	4	0	0.005	0.045	0.071	01/07/09	0.005	0.071	--	--	--	--	0.008	--
Phosphorus, in milligrams per liter	2001-2008	108	1	0 *	0.015	0.097	02/11/08	0.007	0.044	--	--	--	--	0.006	--
Phosphorus, in milligrams per liter	2009-2009	4	0	0.005	0.056	0.081	01/07/09	0.005	0.081	--	--	--	--	0.006	--
Phosphorus (total), in milligrams per liter	2001-2008	109	0	0.009	0.035	0.119	05/22/02	0.021	0.064	--	--	--	--	0.008	--
Phosphorus (total), in milligrams per liter	2009-2009	4	0	0.019	0.069	0.089	01/07/09	0.019	0.089	--	--	--	--	0.012	--
Organic carbon (total), in milligrams per liter	2001-2008	84	0	2.00	3.34	9.50	06/08/05	2.90	4.83	--	--	--	--	0.5	--

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Organic carbon (total), in milligrams per liter	2009-2009	4	0	3.40	3.55	3.70	10/15/08	3.40	3.70	--	--	--	--	0.5	--
Arsenic, in micrograms per liter	2001-2008	108	25	0 *	0.15	1.95	03/09/05	0 *	0.22	--	--	--	--	0.06	--
Arsenic, in micrograms per liter	2009-2009	4	0	0.15	0.17	0.19	10/15/08	0.15	0.19	--	--	--	--	0.06	--
Copper, in micrograms per liter	2001-2008	108	14	0 *	1.45	20.3	08/13/03	0.72	3.84	2.60	26	3.44	21	1	H
Copper, in micrograms per liter	2009-2009	4	0	0.80	1.06	2.20	01/07/09	0.80	2.20	2.60	0	3.44	0	1	M
Iron, in micrograms per liter	2001-2008	108	14	0 *	45.9	123	05/25/05	23.5	70.1	300	0	--	--	8	L
Iron, in micrograms per liter	2009-2009	4	0	27.9	37.4	48.7	11/04/08	27.9	48.7	300	0	--	--	4	L
Lead, in micrograms per liter	2001-2008	108	38	0 *	0.05	0.45	08/15/07	0 *	0.12	0.51	0	13.0	0	0.08	L
Lead, in micrograms per liter	2009-2009	4	0	0.05	0.06	0.13	12/09/08	0.05	0.13	0.51	0	13.0	0	0.06	L
Manganese, in micrograms per liter	2001-2008	108	13	0 *	2.70	9.69	05/25/05	1.32	4.52	1019	0	1844	0	0.2	L
Manganese, in micrograms per liter	2009-2009	4	0	1.31	1.99	2.60	12/09/08	1.31	2.60	1019	0	1844	0	0.2	L
Mercury, in nanograms per liter	2005-2008	8	0	0.30	2.19	5.60	06/08/05	0.67	5.00	10.0	0	--	--	0.04	M
Mercury, in nanograms per liter	2009-2009	1	0	0.76	0.76	0.76	11/04/08	0.76	0.76	10.0	0	--	--	0.04	L
Nickel, in micrograms per liter	2001-2008	108	15	0 *	0.29	0.82	11/17/04	0.07	0.54	15.3	0	138	0	0.2	L
Nickel, in micrograms per liter	2009-2009	4	0	0.24	0.35	0.81	01/07/09	0.24	0.81	15.3	0	138	0	0.12	L
Selenium, in micrograms per liter	2005-2007	5	1	0 *	0.05	0.25	06/08/05	0 *	0.25	4.60	0	18.4	0	0.08	L
Silver, in micrograms per liter	2001-2008	108	108	0 *	0 *	0 *	03/13/01	0 *	0 *	0.01	0	0.17	0	0.1	L
Silver, in micrograms per liter	2009-2009	4	4	0 *	0 *	0 *	10/15/08	0 *	0 *	0.01	0	0.17	0	0.008	L
Benzene (total), in micrograms per liter	2001-2008	100	100	0 *	0 *	0 *	03/13/01	0 *	0 *	2.20	0	--	--	0.4	L
Ethylbenzene (total), in micrograms per liter	2001-2008	97	95	0 *	0 *	0.60	10/23/01	0 *	0 *	530	0	--	--	0.4	L
m- + p-Xylene (total) in micrograms per liter	2001-2008	100	100	0 *	0 *	0 *	03/13/01	0 *	0 *	1400	0	--	--	0.4	L
o-Xylene (total), in micrograms per liter	2001-2008	100	100	0 *	0 *	0 *	03/13/01	0 *	0 *	1400	0	--	--	0.4	L
Toluene (total), in micrograms per liter	2001-2008	100	100	0 *	0 *	0 *	03/13/01	0 *	0 *	510	0	--	--	0.4	L