

Table 12. Summary of measured constituents and properties for Tomichi Creek at Gunnison, station 09119000

[--, 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; NC, percentiles and medians not calculated or Level of Concern not computed; \*\*, Geometric mean; see Definition of Terms for explanation of standards, exceedances, and concern levels for dissolved oxygen, *Escherichia coli*, pH, and water temperature]

Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Instantaneous discharge, in cubic feet per second	1994-2017	217	0	4.5	102	2,370	06/19/95	58.7	349	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2018-2019	12	0	14.0	114	702	06/04/19	50.6	480	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	1995-2017	137	0	6.0	9.5	13.4	09/19/12	8.1	11.2	6.0	1	--	--	--	L
Dissolved oxygen, in milligrams per liter	2018-2019	12	0	7.6	10.3	12.5	11/15/17	7.8	11.8	6.0	0	--	--	--	L
pH, in standard units	1995-2017	137	0	7.4	8.2	8.9	08/30/11	7.9	8.5	6.5-9.0	0	--	--	--	L
pH, in standard units	2018-2019	12	0	7.8	8.2	8.8	08/16/18	8.0	8.7	6.5-9.0	0	--	--	--	L
Specific conductance, in microsiemens per centimeter	1994-2017	215	0	179	267	419	05/21/02	233	342	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2018-2019	12	0	223	261	363	07/18/18	232	345	--	--	.	--	--	--
Temperature, degrees Celsius	1994-2017	217	0	-0.1	10.5	23.3	06/26/13	0.5	18.6	--	--	--	--	--	--
Temperature, degrees Celsius	2018-2019	12	0	0.0	11.9	23.0	07/18/18	0.0	20.2	--	--	--	--	--	--
Temperature, degrees Celsius April-September	1994-2017	131	0	4.4	15.2	23.3	06/26/13	9.5	20.0	24.3	0	--	--	--	L
Temperature, degrees Celsius April-September	2018-2019	7	0	9.3	16.8	23.0	07/18/18	10.3	22.4	24.3	0	--	--	--	L
Temperature, degrees Celsius November-March	1994-2017	86	0	-0.1	1.6	15.1	10/02/12	0.0	9.0	13.0	2	--	--	--	L
Temperature, degrees Celsius November-March	2018-2019	5	0	0.0	NC	8.3	10/25/18	NC	NC	13.0	0	--	--	--	NC
Turbidity, in nephelometric turbidity ratio-units	2001-2017	68	5	0 *	3.8	29.4	04/02/13	1.9	10.7	--	--	--	--	2.0	--
Turbidity, in nephelometric turbidity ratio-units	2018-2019	8	0	2.3	4.3	24.3	04/25/19	2.5	18.7	--	--	--	--	2.0	--
Residue, in milligrams per liter	1995-2012	18	0	131	164	226	06/23/10	141	222	--	--	.	--	20.0	--
Dissolved solids, sum of constituents, in milligrams per liter	1995-2017	34	0	112	153	228	08/07/02	137	189	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	2018-2019	8	0	138	163	220	07/18/18	141	217	--	--	.	--	--	--
Hardness, in milligrams per liter	1995-2017	91	0	80.1	117	191	05/31/02	102	165	--	--	.	--	--	--
Hardness, in milligrams per liter	2018-2019	8	0	86.7	119	190	07/18/18	91.2	181	--	--	.	--	--	--
Calcium, in milligrams per liter	1995-2017	91	0	22.0	33.4	56.7	05/31/02	28.3	46.6	--	--	.	--	0.022	--
Calcium, in milligrams per liter	2018-2019	8	0	24.2	33.6	54.8	07/18/18	25.6	51.9	--	--	.	--	0.022	--
Magnesium, in milligrams per liter	1995-2017	91	0	6.0	8.3	14.1	07/11/06	7.4	12.0	--	--	.	--	0.011	--
Magnesium, in milligrams per liter	2018-2019	8	0	6.4	8.4	12.9	07/18/18	6.6	12.8	--	--	.	--	0.010	--
Potassium, in milligrams per liter	1995-2017	34	0	1.1	2.0	5.6	04/01/96	1.6	2.6	--	--	.	--	0.10	--
Potassium, in milligrams per liter	2018-2019	8	0	1.8	2.3	2.6	05/16/18	1.9	2.6	--	--	.	--	0.30	--
Sodium, in milligrams per liter	1995-2017	34	0	4.4	7.5	10.4	11/04/14	5.6	9.3	--	--	.	--	0.10	--
Sodium, in milligrams per liter	2018-2019	8	0	6.0	8.4	12.2	04/25/19	6.1	11.7	--	--	.	--	0.40	--
Acid neutralizing capacity, in milligrams per liter	1995-1998	15	0	78.0	112	175	07/19/96	97.8	151	--	--	.	--	--	--
Alkalinity, in milligrams per liter	2002-2014	6	0	116	146	181	08/07/02	116	181	--	--	.	--	4.6	--
Alkalinity, inflection-point titration, in milligrams per liter	1998-2017	18	0	76.0	109	150	07/13/15	85.2	119	--	--	.	--	--	--
Alkalinity, inflection-point titration, in milligrams per liter	2018-2019	8	0	83.5	111	176	07/18/18	88.1	169	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	1998-2017	18	0	92.0	128	181	07/13/15	103	143	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	2018-2019	8	0	101	134	206	07/18/18	107	200	--	--	.	--	--	--
Carbonate, in milligrams per liter	1998-2017	16	0	0.20	0.75	10.8	09/08/98	0.30	1.7	--	--	.	--	--	--

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Constituent or property	Period (water years)	Number of samples	Number of censored values	Minimum	Median	Maximum	Date of Maximum	15th percentile	85th percentile	Chronic standard or standard	Number of exceedances of chronic standard or standard	Acute standard or standard	Number of exceedances of acute standard or standard	LRL	Level of concern
Carbonate, in milligrams per liter	2018-2019	8	0	0.30	1.3	4.1	07/18/18	0.34	3.4	--	--	.	--	--	--
Chloride, in milligrams per liter	1995-2017	35	0	0.80	2.1	4.1	10/27/95	1.4	3.4	250	0	.	--	0.020	L
Chloride, in milligrams per liter	2018-2019	8	0	2.2	2.8	4.6	07/18/18	2.2	4.3	250	0	.	--	0.020	L
Fluoride, in milligrams per liter	1995-2017	33	0	0.20	0.35	0.65	11/04/14	0.30	0.49	--	--	.	--	0.010	--
Fluoride, in milligrams per liter	2018-2019	8	0	0.21	0.41	0.85	04/25/19	0.22	0.73	--	--	.	--	0.010	--
Silica, in milligrams per liter	1995-2017	34	0	14.4	19.0	23.7	05/19/16	17.1	21.2	--	--	.	--	0.018	--
Silica, in milligrams per liter	2018-2019	8	0	18.3	19.6	23.9	06/04/19	18.3	23.2	--	--	.	--	0.050	--
Sulfate, in milligrams per liter	1995-2017	35	0	8.0	13.5	27.0	04/01/96	10.6	18.4	250	0	.	--	0.020	L
Sulfate, in milligrams per liter	2018-2019	8	0	12.0	20.2	27.6	05/16/18	12.6	27.4	250	0	.	--	0.020	L
Ammonia plus organic nitrogen in milligrams per liter as N	1995-2017	137	6	0 *	0.300	1.19	04/07/00	0.171	0.527	--	--	--	--	0.070	--
Ammonia plus organic nitrogen in milligrams per liter as N	2018-2019	12	0	0.133	0.348	0.687	06/04/19	0.140	0.616	--	--	--	--	0.070	--
Ammonia, in milligrams per liter as N	1995-2017	137	97	0 *	0 *	0.050	04/01/96	0 *	0.015	1.82	0	4.39	0	0.010	L
Ammonia, in milligrams per liter as N	2018-2019	12	11	0 *	0 *	0.012	02/27/19	0 *	0.0006	1.66	0	3.97	0	0.010	L
Nitrite plus nitrate in milligrams per liter as N	1995-2017	137	71	0 *	0 *	0.114	01/31/06	0 *	0.064	--	--	10.0	0	0.010	--
Nitrite plus nitrate in milligrams per liter as N	2018-2019	12	5	0 *	0.016	0.091	02/27/19	0 *	0.044	--	--	10.0	0	0.010	--
Nitrite, in milligrams per liter as N	1995-2017	137	90	0 *	0 *	0.020	04/01/96	0 *	0.002	--	--	0.05	0	0.0010	--
Nitrite, in milligrams per liter as N	2018-2019	12	8	0 *	0 *	0.003	07/18/18	0 *	0.001	--	--	0.05	0	0.0010	--
Orthophosphate, in milligrams per liter as P	1995-2017	137	4	0 *	0.021	0.047	08/13/07	0.012	0.031	--	--	--	--	0.0040	--
Orthophosphate, in milligrams per liter as P	2018-2019	12	0	0.013	0.022	0.034	09/06/19	0.014	0.032	--	--	--	--	0.0040	--
Phosphorus, in milligrams per liter as P	1995-2002	48	6	0 *	0.024	0.056	03/17/98	0.010	0.043	--	--	--	--	0.0044	--
Phosphorus (total), in milligrams per liter as P	1995-2017	137	1	0 *	0.050	0.269	04/07/00	0.032	0.085	0.11	11	--	--	0.0040	L
Phosphorus (total), in milligrams per liter as P	2018-2019	12	0	0.031	0.053	0.128	04/25/19	0.038	0.091	0.11	1	--	--	0.0040	L
<i>Escherichia coli</i> , in colonies per 100 milliliters	2001-2017	100	8	1	21	350	05/19/16	--	18 **	126	10	--	--	1	L
<i>Escherichia coli</i> , in colonies per 100 milliliters	2018-2019	11	0	1	40	490	06/04/19	--	24 **	126	1	--	--	1	L
Biomass periphyton, ashfree drymass, in grams per square meter	1998-2017	19	2	0 *	14.8	75.5	10/07/15	7.20	37.8	--	--	--	--	0.10	--
Biomass periphyton, ashfree drymass, in grams per square meter	2019	2	0	4.00	NC	28.5	10/25/18	NC	NC	--	--	--	--	0.70	--
Periphyton, biomass, ash weight, in grams per square meter	1998-2017	19	0	150	448	1796	08/28/03	191	1100	--	--	--	--	0.10	--
Periphyton, biomass, ash weight, in grams per square meter	2019	2	0	77.7	NC	283	10/25/18	NC	NC	--	--	--	--	0.70	--
Periphyton, biomass, dry weight, in grams per square meter	1998-2017	19	0	160	463	1838	08/28/03	202	1133	--	--	--	--	0.10	--
Periphyton, biomass, dry weight, in grams per square meter	2019	2	0	81.7	NC	312	10/25/18	NC	NC	--	--	--	--	0.70	--
Chlorophyll a, periphyton, chromofluoro, in milligrams per square meter	1998-2017	19	0	1.12	31.2	115	07/11/06	7.53	66.5	150	0	--	--	0.10	L
Chlorophyll a, periphyton, chromofluoro, in milligrams per square meter	2019	2	0	17.1	NC	177	10/25/18	NC	NC	150	1	--	--	0.10	NC
Pheophytin a, periphyton, in milligrams per square meter	2001-2017	17	0	0.740	10.2	34.3	10/18/01	7.02	21.2	--	--	--	--	0.10	--
Pheophytin a, periphyton, in milligrams per square meter	2019	2	0	4.29	NC	31.8	10/25/18	NC	NC	--	--	--	--	0.10	--
Aluminum, in micrograms per liter	1995-2017	84	26	0 *	2.4	81.9	04/27/17	0 *	15.1	--	--	.	--	3.0	--
Aluminum, in micrograms per liter	2018-2019	8	3	0 *	3.6	117	04/25/19	0 *	86.2	--	--	.	--	3.0	--

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Aluminum (total), in micrograms per liter	2011-2017	27	0	17.8	160	954	04/02/13	46.4	539	615	2	4,308	0	3.0	L
Aluminum (total), in micrograms per liter	2018-2019	8	0	52.8	123	932	04/25/19	66.6	739	615	1	4,308	0	3.0	L
Cadmium, in micrograms per liter	1995-2017	84	70	0 *	0 *	0.037	05/21/14	0 *	0.014	0.82	0	2.1	0	0.030	L
Cadmium, in micrograms per liter	2018-2019	8	7	0 *	0 *	0.039	04/25/19	0 *	0.025	0.82	0	2.1	0	0.030	L
Copper, in micrograms per liter	1995-2017	84	29	0 *	0.81	5.5	10/27/05	0 *	1.7	10.3	0	15.8	0	0.20	L
Copper, in micrograms per liter	2018-2019	8	0	0.73	1.3	2.1	06/04/19	0.74	2.0	10.3	0	15.8	0	0.40	L
Iron, in micrograms per liter	1995-2017	79	0	14.1	71.8	220	04/02/13	34.1	138	300	0	.	--	10.0	L
Iron, in micrograms per liter	2018-2019	8	0	32.4	79.6	230	04/25/19	34.7	205	300	0	.	--	10.0	M
Lead, in micrograms per liter	1995-2017	84	29	0 *	0.069	0.42	04/11/11	0 *	0.26	3.0	0	77.5	0	0.020	L
Lead, in micrograms per liter	2018-2019	8	0	0.030	0.10	0.52	04/25/19	0.038	0.43	3.0	0	77.5	0	0.020	L
Manganese, in micrograms per liter	1995-2017	79	0	8.9	32.6	157	05/01/12	16.4	57.9	1,745	0	3,158	0	0.40	L
Manganese, in micrograms per liter	2018-2019	8	0	22.1	37.3	65.8	05/16/18	24.0	63.4	1,745	0	3,158	0	0.40	L
Silver, in micrograms per liter	1999-2017	72	68	0 *	0 *	0.009	01/05/12	0 *	0 *	0.10	0	2.7	0	1.0	L
Silver, in micrograms per liter	2018-2019	8	8	0 *	0 *	0 *	11/15/17	0 *	0 *	0.10	0	2.7	0	1.0	L
Zinc, in micrograms per liter	1995-2017	84	53	0 *	0 *	11.5	04/23/01	0 *	3.0	141	0	187	0	2.0	L
Zinc, in micrograms per liter	2018-2019	8	6	0 *	0 *	2.8	03/14/18	0 *	2.6	141	0	187	0	2.0	L
Organic carbon, in milligrams per liter	1998-2002	4	0	2.8	NC	5.5	03/17/98	NC	NC	--	--	.	--	0.33	--
Suspended sediment, in milligrams per liter	1995-2017	89	0	1	9	135	03/27/97	3	29	--	--	--	--	1.0	--
Suspended sediment, in milligrams per liter	2018-2019	8	0	3	9	46	04/25/19	3	39	--	--	--	--	1.0	--