

Table 7. Summary of measured constituents and properties for Arkansas River above Pueblo, Co. (ARKPUECO), station 07099400

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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
Instantaneous discharge, in cubic feet per second	1990-2017	252	0	0.72	398	4,680	06/09/15	73.8	1,641	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2018-2019	16	0	27.6	409	3,800	06/13/19	44.7	2,356	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	1990-2017	154	0	6.4	9.4	13.1	02/11/15	8.4	11.4	6.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2018-2019	16	0	3.7	10.8	12.8	02/12/19	7.4	12.7	6.0	1	--	--	--	L
pH, in standard units	1990-2017	185	0	7.6	8.2	8.6	02/21/06	8.0	8.4	6.5-9.0	0	--	--	--	L
pH, in standard units	2018-2019	16	0	7.9	8.2	8.6	05/23/18	8.1	8.5	6.5-9.0	0	--	--	--	L
pH, laboratory, in standard units	1990-2003	55	0	7.7	8.2	8.4	10/24/89	8.1	8.3	6.5-9.0	0	--	--	0.10	L
Specific conductance, laboratory, in microsiemens per centimeter	1990-2007	57	0	319	539	810	12/17/02	404	589	--	--	.	--	2.6	--
Specific conductance, in microsiemens per centimeter	1990-2017	280	0	203	434	842	01/02/03	337	555	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2018-2019	16	0	234	461	516	02/12/19	252	499	--	--	.	--	--	--
Temperature, water, degrees Celsius	1990-2017	258	0	2.3	13.9	22.5	08/21/01	5.0	19.8	--	--	--	--	--	--
Temperature, water, degrees Celsius	2018-2019	16	0	4.0	11.6	20.2	09/25/19	5.6	17.7	--	--	--	--	--	--
Temperature, water, degrees Celsius April-October	1990-2017	185	0	6.0	16.7	22.5	08/21/01	10.0	20.5	23.9	0	--	--	--	L
Temperature, water, degrees Celsius April-October	2018-2019	12	0	5.8	14.1	20.2	09/25/19	7.8	18.7	23.9	0	--	--	--	L
Temperature, water, degrees Celsius November-March	1990-2017	73	0	2.3	5.0	13.0	11/07/05	3.5	7.8	13.0	0	--	--	--	L
Temperature, water, degrees Celsius November-March	2018-2019	4	0	4.0	NC	8.2	12/14/17	NC	NC	13.0	0	--	--	--	NC
Turbidity, water, unfiltered, monochrome near infra-red in nephelometric turbidity units	2011	1	0	2.1	NC	2.1	02/23/11	NC	NC	--	--	.	--	--	--
Dissolved solids dried at 180 degrees C, in milligrams per liter	1990-2017	86	0	145	304	464	12/16/91	241	363	--	--	.	--	20.0	--
Dissolved solids dried at 180 degrees C, in milligrams per liter	2018-2019	8	0	139	296	350	02/12/19	190	350	--	--	.	--	20.0	--
Dissolved solids, sum of constituents, in milligrams per liter	1992-2012	39	0	128	267	538	12/17/02	210	344	--	--	.	--	--	--
Hardness, in milligrams per liter	1990-2012	75	0	99.7	197	354	12/17/02	161	242	--	--	.	--	--	--
Calcium, in milligrams per liter	1990-2012	75	0	30.3	54.2	95.7	12/17/02	45.0	66.0	--	--	.	--	0.022	--
Magnesium, in milligrams per liter	1990-2012	75	0	5.8	15.2	28.0	12/17/02	11.2	19.3	--	--	.	--	0.011	--
Potassium, in milligrams per liter	1992-2012	42	0	1.4	2.4	4.4	10/28/91	2.1	2.9	--	--	.	--	0.030	--
Sodium, in milligrams per liter	1990-2012	67	0	7.3	21.1	44.0	12/17/02	16.0	27.9	--	--	.	--	0.060	--
Acid neutralizing capacity, in milligrams per liter	1990-2003	33	0	87.0	125	177	12/17/02	95.7	137	--	--	.	--	2.0	--
Alkalinity, inflection-point titration, in milligrams per liter	2004-2012	31	0	72.2	105	128	03/02/05	87.0	118	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	2007-2012	20	0	88.0	126	139	03/06/07	104	135	--	--	.	--	--	--
Carbonate, in milligrams per liter	2008-2012	14	0	0.40	0.75	1.5	12/18/07	0.50	1.4	--	--	.	--	--	--
Chloride, in milligrams per liter	1990-2012	67	0	2.8	8.2	13.4	05/28/03	6.1	10.2	250	0	.	--	0.060	L
Fluoride, in milligrams per liter	1990-2012	52	0	0.30	0.52	0.81	12/17/02	0.45	0.61	--	--	.	--	0.040	--
Silica, in milligrams per liter	2002	1	0	7.2	NC	7.2	07/22/02	NC	NC	--	--	.	--	0.13	--
Sulfate, in milligrams per liter	1990-2012	81	0	37.1	121	248	12/17/02	84.8	159	250	0	.	--	0.090	M
Ammonia plus organic nitrogen, unfiltered, in milligrams per liter	2002	2	0	0.231	NC	0.283	08/27/02	NC	NC	--	--	--	--	0.10	--
Ammonia nitrogen, in milligrams per liter	1993-2017	118	16	0 *	0.029	0.162	09/20/12	0.010	0.065	1.58	0	4.09	0	0.010	L

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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
Ammonia nitrogen, in milligrams per liter	2018-2019	16	2	0 *	0.028	0.196	09/18/18	0.006	0.069	1.57	0	3.66	0	0.010	L
Ammonia, unfiltered, in milligrams per liter	1990-1993	30	1	0 *	0.040	0.110	08/20/90	0.026	0.080	--	--	--	--	--	--
Nitrite plus nitrate, in milligrams per liter	1993-2017	118	2	0 *	0.242	0.430	06/14/99	0.134	0.331	--	--	10.0	0	0.010	--
Nitrite plus nitrate, in milligrams per liter	2018-2019	16	0	0.140	0.292	0.474	07/16/18	0.191	0.402	--	--	10.0	0	0.010	--
Nitrate plus nitrite, unfiltered, in milligrams per liter	1990-1993	30	0	0.100	0.210	0.470	07/22/91	0.157	0.324	--	--	--	--	--	--
Nitrate, in milligrams per liter	2001-2017	80	0	0.061	0.231	0.415	08/03/06	0.130	0.312	--	--	10.0	0	--	--
Nitrate, in milligrams per liter	2018-2019	10	0	0.128	0.271	0.472	07/16/18	0.137	0.427	--	--	10.0	0	--	--
Nitrite nitrogen, in milligrams per liter	2001-2017	80	5	0 *	0.005	0.087	09/18/13	0.001	0.012	--	--	0.05	1	0.0010	--
Nitrite nitrogen, in milligrams per liter	2018-2019	10	2	0 *	0.004	0.014	09/18/18	0 *	0.013	--	--	0.05	0	0.0010	--
Nitrite, unfiltered, in milligrams per liter	1990-1991	3	3	0 *	NC	0 *	09/28/90	NC	NC	--	--	--	--	--	--
Orthophosphate, in milligrams per liter	1998-2017	116	25	0 *	0.009	0.101	09/20/12	0 *	0.019	--	--	--	--	0.0040	--
Orthophosphate, in milligrams per liter	2018-2019	16	3	0 *	0.007	0.080	09/18/18	0 *	0.028	--	--	--	--	0.0040	--
Orthophosphate, unfiltered, in milligrams per liter	1990-1991	3	3	0 *	NC	0 *	09/28/90	NC	NC	--	--	--	--	--	--
Phosphorus, in milligrams per liter	1998-2017	94	11	0 *	0.012	0.106	09/20/12	0.004	0.025	--	--	--	--	0.0030	--
Phosphorus, in milligrams per liter	2018-2019	10	2	0 *	0.018	0.088	09/18/18	0 *	0.051	--	--	--	--	0.0030	--
Phosphorus, unfiltered, in milligrams per liter	1990-2017	127	14	0 *	0.027	0.570	10/28/91	0.010	0.047	--	--	--	--	0.0040	--
Phosphorus, unfiltered, in milligrams per liter	2018-2019	16	6	0 *	0.014	0.097	09/18/18	0 *	0.048	--	--	--	--	0.0040	--
Total nitrogen, unfiltered, in milligrams per liter	2005-2017	82	0	0.255	0.467	0.716	06/09/15	0.354	0.562	--	--	--	--	0.050	--
Total nitrogen, unfiltered, in milligrams per liter	2018-2019	16	0	0.367	0.479	0.631	07/16/18	0.385	0.573	--	--	--	--	0.050	--
<i>Escherichia coli</i> , Defined Substrate Technology, in colonies per 100 milliliters	2011	1	0	2	NC	2	02/23/11	--	NC**	126	0	--	--	1	NC
<i>Escherichia coli</i> , in colonies per 100 milliliters	2002-2008	14	0	1	5	22	08/30/05	--	4 **	126	0	--	--	1	L
Fecal coliform, M-FC MF, in colonies per 100 milliliters	1990-2002	25	11	0 *	1	980	10/28/91	0 *	11	--	--	--	--	--	--
Fecal streptococci, in colonies per 100 milliliters	1990-1993	22	2	0 *	11	92	12/17/90	1	35	--	--	--	--	--	--
Total coliform, Defined Substrate Technology, in colonies per 100 milliliters	2011	1	0	46	NC	46	02/23/11	NC	NC	--	--	--	--	--	--
Cadmium, in micrograms per liter	1990-1993	26	16	0 *	0 *	2.9	08/15/91	0 *	0.59	1.2	1	3.5	0	--	L
Cadmium, unfiltered, in micrograms per liter	1990-1993	26	25	0 *	0 *	1.0	06/11/90	0 *	0 *	--	--	.	--	--	--
Chromium, in micrograms per liter	1990-1993	26	24	0 *	0 *	2.0	06/10/91	0 *	0 *	134	0	.	--	--	L
Chromium, unfiltered, in micrograms per liter	1990-1993	26	15	0 *	0 *	10.0	07/22/91	0 *	1.9	--	--	.	--	--	--
Copper, in micrograms per liter	1990-1993	26	3	0 *	1.0	6.0	08/15/91	1.0	2.9	16.6	0	26.5	0	--	L
Copper, unfiltered, in micrograms per liter	1990-1993	25	3	0 *	3.0	430	06/11/90	0.90	10.2	--	--	.	--	--	--
Iron, in micrograms per liter	1990-2002	36	15	0 *	3.5	28.0	03/25/92	0 *	12.3	300	0	.	--	10.0	L
Iron, unfiltered, in micrograms per liter	1990-2000	33	0	20.0	150	4,700	08/20/90	60.0	431	1,000	1	.	--	--	L
Lead, in micrograms per liter	1990-1993	26	23	0 *	0 *	1.8	06/11/90	0 *	0 *	5.5	0	140	0	--	L
Lead, unfiltered, in micrograms per liter	1990-1993	25	6	0 *	1.0	25.0	06/11/90	0 *	8.0	--	--	50.0	0	--	--
Manganese, in micrograms per liter	1990-2002	43	11	0 *	5.0	162	08/27/02	0 *	37.4	50.0	3	.	--	1.6	M

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Manganese, unfiltered, in micrograms per liter	1990-2001	41	6	0 *	30.0	270	07/22/91	3.0	71.0	--	--	.	--	--	--
Nickel, in micrograms per liter	1990-1993	26	5	0 *	1.0	4.0	08/15/91	0 *	2.9	95.7	0	862	0	--	L
Nickel, unfiltered, in micrograms per liter	1990-1993	23	0	1.0	3.0	13.0	06/10/91	1.6	5.0	100	0	.	--	--	L
Silver, in micrograms per liter	1990-1993	25	25	0 *	0 *	0 *	04/09/90	0 *	0 *	0.26	0	7.0	0	--	L
Silver, unfiltered, in micrograms per liter	1990-1993	26	26	0 *	0 *	0 *	04/09/90	0 *	0 *	--	--	.	--	--	--
Zinc, in micrograms per liter	1990-1993	26	17	0 *	0 *	12.0	05/20/91	0 *	6.9	234	0	308	0	--	L
Zinc, unfiltered, in micrograms per liter	1990-1993	26	12	0 *	10.0	50.0	07/22/91	0 *	29.5	--	--	.	--	--	--
Selenium, in micrograms per liter	1990-2017	55	1	0 *	4.0	6.9	04/24/00	2.2	5.4	4.6	15	18.4	0	0.050	H
Selenium, in micrograms per liter	2018-2019	8	0	1.8	6.1	7.5	02/12/19	3.0	7.4	4.6	7	18.4	0	0.050	H
Selenium, unfiltered, in micrograms per liter	1990-2008	33	0	1.6	4.0	8.6	03/13/00	2.5	6.4	--	--	.	--	0.080	--
Organic carbon, in milligrams per liter	2001-2017	77	0	1.9	2.5	5.2	07/23/14	2.1	3.2	--	--	.	--	0.23	--
Organic carbon, in milligrams per liter	2018-2019	10	0	2.0	2.3	4.5	06/26/19	2.1	3.4	--	--	.	--	0.23	--
Uranium (natural), in micrograms per liter	2005-2017	34	0	2.3	4.9	6.4	03/02/05	3.2	5.6	30.0	0	.	--	0.010	L
Uranium (natural), in micrograms per liter	2018-2019	8	0	2.2	4.5	5.3	02/12/19	2.8	5.3	30.0	0	.	--	0.030	L
Uranium (natural), unfiltered, in micrograms per liter	2005-2008	13	0	3.4	5.1	7.0	03/02/05	3.4	6.3	--	--	.	--	0.020	--
Suspended sediment, in milligrams per liter	1990	3	0	16	NC	33	07/24/90	NC	NC	--	--	--	--	--	--