

Table 11. Summary of measured constituents and properties for Arkansas River near Rocky Ford, Co. (ARKROCCO), station 07120500
 [--, 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	2002-2017	131	0	6.4	159	4,010	06/12/17	31.0	958	--	--	.	--	--	--
Instantaneous discharge, in cubic feet per second	2018-2019	11	0	23.8	95.2	2,250	06/12/19	33.6	1,032	--	--	.	--	--	--
Dissolved oxygen, in milligrams per liter	2002-2017	34	0	6.3	8.7	12.9	02/12/13	7.2	11.9	5.0	0	--	--	--	L
Dissolved oxygen, in milligrams per liter	2018-2019	11	0	6.4	10.3	11.7	11/29/17	6.6	11.7	5.0	0	--	--	--	L
pH, in standard units	2002-2017	107	0	7.8	8.3	8.5	07/23/02	8.2	8.4	6.5-9.0	0		--	--	L
pH, in standard units	2018-2019	11	0	8.0	8.3	8.4	11/29/17	8.1	8.4	6.5-9.0	0		--	--	L
pH, laboratory, in standard units	2002-2003	8	0	8.0	8.2	8.3	07/23/02	8.0	8.3	6.5-9.0	0		--	0.10	L
Specific conductance, laboratory, in microsiemens per centimeter	2002-2010	12	0	553	1,578	2,110	07/23/02	767	1,873	--	--	.	--	5.0	--
Specific conductance, in microsiemens per centimeter	2002-2017	133	0	555	1,310	2,360	08/28/02	791	1,789	--	--	.	--	--	--
Specific conductance, in microsiemens per centimeter	2018-2019	11	0	655	1,715	1,800	02/28/18	857	1,793	--	--	.	--	--	--
Temperature, water, degrees Celsius	2002-2017	128	0	0.0	17.4	34.0	07/24/03	5.0	25.5	--	--	--	--	--	--
Temperature, water, degrees Celsius	2018-2019	11	0	0.5	10.1	30.7	08/22/18	5.2	27.9	--	--	--	--	--	--
Temperature, water, degrees Celsius March-November	2002-2017	89	0	1.5	21.5	34.0	07/24/03	11.0	26.5	28.6	6	--	--	--	L
Temperature, water, degrees Celsius March-November	2018-2019	6	0	6.4	21.1	30.7	08/22/18	6.9	30.5	28.6	1	--	--	--	H
Temperature, water, degrees Celsius December-February	2002-2017	39	0	0.0	5.2	13.0	02/23/17	1.5	9.0	14.3	0	--	--	--	L
Temperature, water, degrees Celsius December-February	2018-2019	5	0	0.5	NC	10.1	02/27/18	NC	NC	14.3	0	--	--	--	NC
Turbidity, water, unfiltered, monochrome near infra-red in nephelometric turbidity units	2012	1	0	3.2	NC	3.2	12/15/11	NC	NC	--	--	.	--	--	--
Dissolved solids dried at 180 degrees C, in milligrams per liter	2002-2017	94	0	365	901	1,785	07/23/02	498	1,418	--	--	.	--	20.0	--
Dissolved solids dried at 180 degrees C, in milligrams per liter	2018-2019	8	0	442	1,215	1,466	02/28/18	512	1,448	--	--	.	--	20.0	--
Dissolved solids, sum of constituents, in milligrams per liter	2002-2017	56	0	333	874	1,433	02/19/08	480	1,315	--	--	.	--	--	--
Dissolved solids, sum of constituents, in milligrams per liter	2018	3	0	715	NC	1,259	11/29/17	NC	NC	--	--	.	--	--	--
Hardness, in milligrams per liter	2002-2017	58	0	217	489	838	02/19/08	293	793	--	--	.	--	--	--
Hardness, in milligrams per liter	2018	3	0	398	NC	732	11/29/17	NC	NC	--	--	.	--	--	--
Calcium, in milligrams per liter	2002-2017	58	0	57.8	125	212	02/19/08	77.1	196	--	--	.	--	0.050	--
Calcium, in milligrams per liter	2018	3	0	97.9	NC	186	11/29/17	NC	NC	--	--	.	--	0.050	--
Magnesium, in milligrams per liter	2002-2017	58	0	17.7	46.5	79.3	02/23/17	24.7	72.8	--	--	.	--	0.0010	--
Magnesium, in milligrams per liter	2018	3	0	36.9	NC	64.3	11/29/17	NC	NC	--	--	.	--	0.0010	--
Potassium, in milligrams per liter	2002-2017	58	0	2.6	4.2	15.0	10/22/09	3.4	4.8	--	--	.	--	0.10	--
Potassium, in milligrams per liter	2018	3	0	4.8	NC	5.3	02/27/18	NC	NC	--	--	.	--	0.10	--
Sodium, in milligrams per liter	2002-2017	58	0	28.6	97.3	210	07/23/02	46.0	139	--	--	.	--	0.010	--
Sodium, in milligrams per liter	2018	3	0	71.8	NC	118	11/29/17	NC	NC	--	--	.	--	0.010	--
Acid neutralizing capacity, in milligrams per liter	2002-2011	22	0	125	180	233	01/11/02	151	215	--	--	.	--	4.0	--
Alkalinity, inflection-point titration, in milligrams per liter	2004-2017	34	0	109	156	247	12/15/11	126	241	--	--	.	--	--	--
Alkalinity, inflection-point titration, in milligrams per liter	2018	3	0	131	NC	233	11/29/17	NC	NC	--	--	.	--	--	--
Bicarbonate, in milligrams per liter	2007-2017	22	0	104	226	296	02/17/10	146	294	--	--	.	--	--	--

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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
Bromide, in micrograms per liter	2017	3	0	0.087	NC	0.257	02/23/17	NC	NC	--	--	--	--	0.010	--
Bromide, in micrograms per liter	2018	3	0	0.134	NC	0.235	02/27/18	NC	NC	--	--	--	--	0.010	--
Carbonate, in milligrams per liter	2007-2017	17	0	0.80	1.9	18.8	05/17/07	1.0	3.4	--	--	.	--	--	--
Chloride, in milligrams per liter	2002-2017	58	0	10.7	35.6	78.5	07/23/02	16.1	45.5	250	0	.	--	0.020	L
Chloride, in milligrams per liter	2018	3	0	34.1	NC	48.4	02/27/18	NC	NC	250	0	.	--	0.020	NC
Fluoride, in milligrams per liter	2002-2012	55	0	0.60	0.95	1.6	07/23/02	0.69	1.1	--	--	.	--	0.040	--
Silica, in milligrams per liter	2002-2017	9	0	6.9	9.9	13.1	02/23/17	7.1	12.5	--	--	.	--	0.040	--
Silica, in milligrams per liter	2018	3	0	6.6	NC	14.6	11/29/17	NC	NC	--	--	.	--	0.040	--
Sulfate, in milligrams per liter	2002-2017	79	0	150	446	929	07/23/02	243	718	902	1	.	--	0.020	M
Sulfate, in milligrams per liter	2018	3	0	380	NC	675	02/27/18	NC	NC	902	0	.	--	0.020	NC
Ammonia plus organic nitrogen, unfiltered, in milligrams per liter	2002-2011	5	0	0.260	NC	2.04	07/23/02	NC	NC	--	--	--	--	0.050	--
Ammonia nitrogen, in milligrams per liter	2002-2017	28	16	0 *	0 *	0.122	08/28/02	0 *	0.023	1.21	0	3.42	0	0.010	L
Ammonia nitrogen, in milligrams per liter	2018-2019	8	4	0 *	0.006	0.037	02/08/19	0 *	0.033	1.27	0	3.63	0	0.010	L
Ammonia, unfiltered, in milligrams per liter	2017	1	1	0 *	NC	0 *	06/12/17	NC	NC	--	--	--	--	0.020	--
Ammonia, unfiltered, in milligrams per liter	2018	1	0	0.021	NC	0.021	12/19/17	NC	NC	--	--	--	--	0.020	--
Nitrite plus nitrate, in milligrams per liter	2002-2017	38	0	0.447	1.48	3.82	08/28/02	0.938	2.82	--	--	10.0	0	0.040	--
Nitrite plus nitrate, in milligrams per liter	2018-2019	11	0	0.662	2.17	3.75	11/29/17	0.675	3.04	--	--	10.0	0	0.040	--
Nitrate, in milligrams per liter	2002-2017	8	0	1.03	1.34	3.78	08/28/02	1.05	3.43	--	--	10.0	0	--	--
Nitrate, in milligrams per liter	2018	3	0	0.657	NC	3.73	11/29/17	NC	NC	--	--	10.0	0	--	--
Nitrite nitrogen, in milligrams per liter	2002-2017	8	0	0.002	0.011	0.041	08/28/02	0.002	0.037	--	--	0.50	0	0.0010	--
Nitrite nitrogen, in milligrams per liter	2018	3	0	0.005	NC	0.015	11/29/17	NC	NC	--	--	0.50	0	0.0010	--
Orthophosphate, in milligrams per liter	2002-2017	28	2	0 *	0.022	0.065	07/27/10	0.005	0.052	--	--	--	--	0.0040	--
Orthophosphate, in milligrams per liter	2018-2019	8	0	0.007	0.030	0.102	08/22/18	0.008	0.079	--	--	--	--	0.0040	--
Phosphorus, unfiltered, in milligrams per liter	2002-2017	28	2	0 *	0.138	1.26	08/11/17	0.024	0.676	--	--	--	--	0.020	--
Phosphorus, unfiltered, in milligrams per liter	2018-2019	8	1	0 *	0.158	0.822	06/12/19	0.014	0.726	--	--	--	--	0.020	--
Total nitrogen, unfiltered, in milligrams per liter	2012-2017	23	0	0.950	2.10	3.51	12/09/16	1.36	2.97	--	--	--	--	0.050	--
Total nitrogen, unfiltered, in milligrams per liter	2018-2019	8	0	1.26	2.23	3.19	02/08/19	1.33	3.08	--	--	--	--	0.050	--
<i>Escherichia coli</i> , Defined Substrate Technology, in colonies per 100 milliliters	2010	4	0	11	NC	24,000	10/22/09	--	NC**	126	1	--	--	1	NC
<i>Escherichia coli</i> , in colonies per 100 milliliters	2002-2008	14	0	1	195	3,600	08/31/07	--	78 **	126	8	--	--	1	L
Fecal coliform, M-FC MF, in colonies per 100 milliliters	2002	2	0	940	NC	3,300	07/23/02	NC	NC	--	--	--	--	--	--
Total coliform, Defined Substrate Technology, in colonies per 100 milliliters	2010	4	0	1,100	NC	24,000	10/22/09	NC	NC	--	--	--	--	--	--
Aluminum, in micrograms per liter	2010-2011	3	0	4.0	NC	17.7	07/27/10	NC	NC	1,438	0	10,071	0	1.7	NC
Barium, in micrograms per liter	2017	3	0	62.5	NC	130	02/23/17	NC	NC	1,000	0	.	--	0.010	NC
Barium, in micrograms per liter	2018	3	0	47.4	NC	56.5	02/27/18	NC	NC	1,000	0	.	--	0.010	NC
Beryllium, in micrograms per liter	2017	3	3	0 *	NC	0 *	02/23/17	NC	NC	4.00	0	--	--	0.10	NC

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Beryllium, in micrograms per liter	2018	3	3	0 *	NC	0 *	11/29/17	NC	NC	4.00	0	--	--	0.10	NC
Cobalt, in micrograms per liter	2017	3	0	0.43	NC	0.63	08/24/17	NC	NC	--	--	.	--	0.010	--
Cobalt, in micrograms per liter	2018	3	0	0.48	NC	1.4	02/27/18	NC	NC	--	--	.	--	0.010	--
Iron, in micrograms per liter	2002-2017	5	4	0 *	NC	31.0	02/23/17	NC	NC	300	0	.	--	20.0	NC
Iron, in micrograms per liter	2018	3	1	0 *	NC	371	02/27/18	NC	NC	300	1	.	--	20.0	NC
Lithium, in micrograms per liter	2017	3	0	27.0	NC	70.9	02/23/17	NC	NC	--	--	--	--	0.10	--
Lithium, in micrograms per liter	2018	3	0	38.4	NC	71.4	11/29/17	NC	NC	--	--	--	--	0.10	--
Manganese, in micrograms per liter	2002-2017	5	0	4.9	NC	115	08/28/02	NC	NC	50.0	2	.	--	0.50	NC
Manganese, in micrograms per liter	2018	3	0	34.9	NC	137	11/29/17	NC	NC	50.0	2	.	--	0.50	NC
Mercury, in micrograms per liter	2017	3	3	0 *	NC	0 *	02/23/17	NC	NC	--	3	.	--	5.0	--
Mercury, in micrograms per liter	2018	3	3	0 *	NC	0 *	11/29/17	NC	NC	--	3	.	--	5.0	--
Molybdenum, in micrograms per liter	2017	3	0	5.80	NC	7.60	08/24/17	NC	NC	210	0	--	--	0.10	NC
Molybdenum, in micrograms per liter	2018	3	0	6.90	NC	18.2	02/27/18	NC	NC	210	0	--	--	0.10	NC
Nickel, in micrograms per liter	2017	3	0	4.1	NC	17.9	08/24/17	NC	NC	168	0	1,513	0	0.10	NC
Nickel, in micrograms per liter	2018	3	0	8.1	NC	43.3	02/27/18	NC	NC	168	0	1,513	0	0.10	NC
Strontium, in micrograms per liter	2017	3	0	1,020	NC	3,530	02/23/17	NC	NC	--	--	--	--	0.020	--
Strontium, in micrograms per liter	2018	3	0	1,250	NC	2,730	11/29/17	NC	NC	--	--	--	--	0.020	--
Vanadium, in micrograms per liter	2017	3	0	0.600	NC	2.40	08/24/17	NC	NC	--	--	--	--	0.50	--
Vanadium, in micrograms per liter	2018	3	0	0.900	NC	1.30	02/27/18	NC	NC	--	--	--	--	0.50	--
Zinc, in micrograms per liter	2010-2011	3	3	0 *	NC	0 *	06/29/10	NC	NC	428	0	564	0	1.4	NC
Antimony, in micrograms per liter	2017	3	3	0 *	NC	0 *	02/23/17	NC	NC	5.60	0	--	--	2.0	NC
Antimony, in micrograms per liter	2018	3	3	0 *	NC	0 *	11/29/17	NC	NC	5.60	0	--	--	2.0	NC
Arsenic, in micrograms per liter	2017	3	2	0 *	NC	2.0	08/24/17	NC	NC	--	--	340	0	1.0	--
Arsenic, in micrograms per liter	2018	3	2	0 *	NC	2.0	05/30/18	NC	NC	--	--	340	0	1.0	--
Boron, in micrograms per liter	2009-2017	12	0	76.0	134	206	02/23/17	77.4	185	0.75	12	.	--	5.0	H
Boron, in micrograms per liter	2018	3	0	122	NC	210	11/29/17	NC	NC	0.75	3	.	--	5.0	NC
Selenium, in micrograms per liter	2002-2017	80	0	4.1	10.0	18.5	02/19/14	6.6	14.1	4.6	78	18.4	1	0.50	H
Selenium, in micrograms per liter	2018-2019	11	0	6.3	11.9	16.8	02/08/19	7.5	15.6	4.6	11	18.4	0	0.050	H
Selenium, unfiltered, in micrograms per liter	2002-2008	36	0	4.3	9.3	18.3	03/03/05	6.6	13.1	--	--	.	--	0.080	--
Uranium (natural), in micrograms per liter	2005-2017	74	0	4.1	13.1	31.7	02/19/08	7.4	25.4	30.0	3	.	--	0.010	M
Uranium (natural), in micrograms per liter	2018-2019	11	0	6.4	19.0	30.5	12/19/17	8.2	25.9	30.0	1	.	--	0.030	M
Uranium (natural), unfiltered, in micrograms per liter	2005-2008	34	0	6.0	12.2	37.6	02/19/08	8.8	23.4	--	--	.	--	0.020	--