Colorado Springs Utilities

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2021 Water Quality Summary Report

JANUARY - DECEMBER

Colorado Springs Utilities is committed to providing our customers with a superior and reliable supply of high quality drinking water. Our drinking water continually meets or surpasses state and federal standards for drinking water. Your health, safety and satisfaction are of utmost priority.

Note: This report is provided to our customers as an additional service and is intended to be used for information only. Please refer to www.csu.org for the official Water Quality Report for Colorado Springs Utilities.

			Pine Valley/McCullough			Phillip H. Tollefson		
Treatment Plant Effluents	**Units**	**MCL**	Minimum	Maximum	Average	Minimum	Maximum	Average
Aluminum	ug/L	200*	<20.0	34.4	<20.0	51.5	279	142
Antimony	ug/L	6		<0.50			<0.50	
Arsenic	ug/L	10		<1.0			<1.0	
Cadmium	ug/L	5		<0.50			<0.50	
Calcium	ug/L	NL	7990	9500	8720	8240	14600	11400
Chloride	mg/L	250*	1.67	2.09	1.87	3.45	4.62	4.08
Chlorine Residual (free Cl2)	mg/L	4.00**	0.77	1.09	0.90	1.09	1.42	1.20
Chromium	ug/L	100		<1.0			<1.0	
Conductivity	µS/cm	NL	70	113	91	101	216	142
Copper	ug/L	1,000*		5.8			<1.0	
Fluoride	mg/L	2.0*, 4.0	0.13	0.32	0.16	0.68	1.66	1.10
Hardness (as CaCO3)	gr/Gal	NL	1.48	1.74	1.61	1.54	2.83	2.17
Hardness (as CaCO3)	mg/L	NL	25.3	29.7	27.6	26.4	48.5	37.3
Iron	ug/L	300*		<10.0			<10.0	
Lead	ug/L	15***		<0.50			<0.50	
Magnesium	ug/L	NL	1290	1560	1420	1410	2960	2150
Manganese	ug/L	50*	<5.00	5.03	<5.00	<5.00	5.03	<5.00
Mercury	ug/L	0.002		<0.2			<0.2	
Nitrate as Nitrogen	mg/L	10		<0.10		0.12	0.17	0.14
pH	SU	7.0 - 9.0 TT	7.6	8.1	7.8	7.7	8.0	7.8
Silica	ug/L	NL		4820			7020	
Sodium	ug/L	NL	4960	9560	6980	7470	19800	12300
Sulfate	mg/L	250*	17.2	19.9	18.3	12.9	20.1	15.6
Thallium	ug/L	2		<0.50			<0.50	
Total Alkalinity (as CaCO3)	mg/L	20-200 TT	22	35	25	30	40	35
Total Dissolved Solids	mg/L	500*	57	65	61	67	105	86
Turbidity	NTU	<0.3 NTU	0.05	0.14	0.07	0.05	0.37	0.10
Zinc	ug/L	5,000*		2.4			<2.0	

*Secondary non-enforceable standard; established for aesthetic reasons

**Maximum Residual Disinfectant Level (MRDL). The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectatnt is necessary for control of microbial contaminates.

***Action Level, 90% of residential sites must be below this level. Value listed is from the Treatment Plant Effluent.

°C- Centrigrade

MCL- Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. These standards are set by the EPA and enforceable by the Colorado Department of Public Health and Environment (CDPHE).

NL- No limit has been set

NTU- Nephelometric Turbidity Unit. A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

mg/L- Milligrams per million, also expressed as parts per million (ppm): 1 part per million corresponds to one penny in $10,000

su- Standard Unit of Measurement

TT- Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water

ug/L- Micrograms per liter, also expressed as parts per billion (ppb): 1 part per billion corresponds to one penny in $10,000,000

µS/cm- Microsiemens per centimeter: Conductivity is the ability of a solution to transfer (conduct) electric current. It is the reciprocal of electrical resistivity (ohms)

Did you know- Colorado Springs Utilities Laboratory Services conducts over 1,000 tests per month to ensure the highest quality water possible

Fountain Valley Authority: Supplies water to Fountain, Security, Widefield, Colorado Springs and Stratmoor Hills

Edward W. Bailey: Built in 2016, Bailey Treatment Plant currently provides water to the Southeast side of Colorado Springs

Treatment Plant Effluents	Units	MCL	Minimum	Maximum	Average	Minimum	Maximum	Average
Aluminum	ug/L	200*	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Antimony	ug/L	6		<0.50			<0.50	
Arsenic	ug/L	10		<1.0			<1.0	
Cadmium	ug/L	5		<0.50			<0.50	
Calcium	ug/L	NL	37800	50200	43900	36200	48400	43600
Chloride	mg/L	250*	10.10	11.40	10.60	7.80	9.81	8.76
Chlorine Residual (free Cl2)	mg/L	4.00**	0.85	1.43	1.12	0.73	1.02	0.89
Chromium	ug/L	100		<1.0			<1.0	
Conductivity	µS/cm	NL	318	441	385	339	472	405
Copper	ug/L	1,000*		<1.0			1.6	
Fluoride	mg/L	2.0*, 4.0	0.36	0.45	0.41	0.38	0.44	0.42
Hardness (as CaCO3)	gr/Gal	NL	7.94	10.34	9.05	7.54	9.98	9.00
Hardness (as CaCO3)	mg/L	NL	136	177	155	129	171	154
Iron	ug/L	300*		21.4			<10.0	
Lead	ug/L	15***		<0.50			<0.50	
Magnesium	ug/L	NL	9570	12900	11000	9270	12500	10900
Manganese	ug/L	50*		<5.00			<5.00	
Mercury	ug/L	0.002		<0.2			<0.2	
Nitrate as Nitrogen	mg/L	10	0.14	0.31	0.21	0.16	0.38	0.23
pH	SU	7.0 - 9.0 TT	7.6	8.0	7.8	7.6	8.0	7.8
Silica	ug/L	NL		6260			5780	
Sodium	ug/L	NL	13400	20700	16900	17700	25200	21700
Sulfate	mg/L	250*	83.8	101	89.9	87.8	118	102
Thallium	ug/L	2		<0.50			<0.50	
Total Alkalinity (as CaCO3)	mg/L	20-200 TT	90	106	99	86	108	99
Total Dissolved Solids	mg/L	500*	230	262	246	263	302	283
Turbidity	NTU	<0.3 NTU	<0.05	0.12	<0.05	0.05	0.06	0.05
Zinc	ug/L	5,000*		3.1			<2.0	

Distribution System	Units	MCL	Minimum	Maximum	Average
pH	su	NL	7.2	8.9	8.0
Temperature	°C	NL	3	25	12
Chlorine Residual (free Cl2)	mg/L	4.00**	0.15	1.45	0.64

Organic Compounds: Additional organic compounds are analyzed periodically as required internally or by the EPA. These compounds include volatile organics chemicals, pesticides, herbicides and other synthetic organic chemicals. The concentrations of these compounds in the drinking water have never exceeded their respective MCLs.

Radionuclides: Radionuclides are analyzed periodically as required by the EPA. The concentrations have never exceeded the MCLs. Specific data available upon request.

Advisory: All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791), or by visiting www.epa.gov/safewater.

Questions?
Please contact Laboratory Services
719-668-4560 or Waterquality@csu.org

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Ute Pass: Built in 1987, Ute Pass Treatment Plant currently provides water to the communities of Green Mountain Falls, Chipita Park and Cascade

Treatment Plant Effluents	Units	MCL	Minimum	Maximum	Average
Aluminum	ug/L	200*	<20.0	50.9	<20.0
Antimony	ug/L	6		<0.50	
Arsenic	ug/L	10		<1.0	
Cadmium	ug/L	5		<0.50	
Calcium	ug/L	NL	10700	12800	11800
Chloride	mg/L	250*	5.03	5.58	5.23
Chlorine Residual (free Cl2)	mg/L	4.00**	0.78	1.14	1.03
Chromium	ug/L	100		<1.0	
Conductivity	µS/cm	NL	105	140	120
Copper	ug/L	1,000*		<1.0	
Fluoride	mg/L	2.0*, 4.0	0.28	0.40	0.33
Hardness (as CaCO3)	gr/Gal	NL	2.09	2.48	2.31
Hardness (as CaCO3)	mg/L	NL	35.8	42.5	39.6
Iron	ug/L	300*		47.4	
Lead	ug/L	15***		<0.50	
Magnesium	ug/L	NL	2200	2560	2430
Manganese	ug/L	50*		<5.00	
Mercury	ug/L	0.002		<0.2	
Nitrate as Nitrogen	mg/L	10	<0.10	0.15	<0.10
pH	SU	7.0 - 9.0 TT	7.7	8.0	7.8
Silica	ug/L	NL		2520	
Sodium	ug/L	NL	4150	13100	8170
Sulfate	mg/L	250*	15.4	15.7	15.6
Thallium	ug/L	2		<0.50	
Total Alkalinity (as CaCO3)	mg/L	20-200 TT	30	60	39
Total Dissolved Solids	mg/L	500*	70	72	71
Turbidity	NTU	<0.3 NTU	<0.05	0.06	<0.05
Zinc	ug/L	5,000*		<2.0	

Questions?

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