

**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL COMMISSION**

5 CCR 1002-32

**REGULATION NO. 32
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
ARKANSAS RIVER BASIN**

**APPENDIX 32-1
Stream Classifications and Water Quality Standards Tables**

Effective 06/30/2021

Abbreviations and Acronyms

Aq	=	Aquatic
°C	=	degrees Celsius
CL	=	cold lake temperature tier
CLL	=	cold large lake temperature tier
CS-I	=	cold stream temperature tier one
CS-II	=	cold stream temperature tier two
D.O.	=	dissolved oxygen
DM	=	daily maximum temperature
DUWS	=	direct use water supply
E. coli	=	<i>Escherichia coli</i>
EQ	=	existing quality
mg/L	=	milligrams per liter
mg/m ²	=	milligrams per square meter
mL	=	milliliter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WL	=	warm lake temperature tier

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Arkansas River Basin

1a. Mainstem of the Arkansas River from a point immediately above the confluence with Fountain Creek to immediately above the Colorado Canal headgate near Avondale.						
COARLA01A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E Water Supply	DM	MWAT	acute	chronic	
UP		varies*	varies*	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	D.O. (mg/L)	---	5.0	Cadmium	TVS	
Qualifiers:	pH	6.5 - 9.0	---	Cadmium(T)	5.0	
Other: Discharger Specific Variance(s): Selenium(acute) = 19.1 µg/L: narrative Selenium(chronic) = 14.1 µg/L: narrative Sulfate(chronic) = 329 mg/L: narrative Expiration Date of 12/31/2028 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Temperature = DM=WS-II and MWAT=WS-II from 1/1-11/30 DM= 21.5 and MWAT=20.7 from 12/1-12/31 *Variance: Selenium = see 32.6(6)(c) for details on variance for City of Pueblo. *Variance: Sulfate = see 32.6(6)(c) for details on variance for City of Pueblo.	chlorophyll a (mg/m ²)	---	---	Chromium III	---	
	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	
	Inorganic (mg/L)		Chromium VI	TVS	TVS	TVS
	acute	chronic	Copper	TVS	TVS	TVS
	Ammonia	TVS	TVS	Iron	---	WS
	Boron	---	0.75	Iron(T)	---	2800
	Chloride	---	250	Lead	TVS	TVS
	Chlorine	0.019	0.011	Lead(T)	50	---
	Cyanide	0.005	---	Manganese	TVS	TVS/WS
	Nitrate	10	---	Mercury(T)	---	0.01
	Nitrite	0.5	---	Molybdenum(T)	---	150
	Phosphorus	---	---	Nickel	TVS	TVS
	Sulfate	---	329	Nickel(T)	---	100
	Sulfide	---	0.002	Selenium	19.1	14.1
				Silver	TVS	TVS
			Uranium	varies*	varies*	
			Zinc	TVS	TVS	
1b. Mainstem of the Arkansas River from the Colorado Canal headgate to the inlet to John Martin Reservoir.						
COARLA01B	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E Water Supply	DM	MWAT	acute	chronic	
UP		WS-II	WS-II	Arsenic	340	
		acute	chronic	Arsenic(T)	---	0.02
	D.O. (mg/L)	---	5.0	Cadmium	TVS	
Qualifiers:	pH	6.5 - 9.0	---	Cadmium(T)	5.0	
Water + Fish Standards Apply	chlorophyll a (mg/m ²)	---	---	Chromium III	---	
Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024 Discharger Specific Variance(s): Selenium(chronic) = See Section 32.6(6)(d)(ii) for details on variance for the City of Las Animas. Expiration Date of 12/31/2025 *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	
	Inorganic (mg/L)		Chromium VI	TVS	TVS	TVS
	acute	chronic	Copper	TVS	TVS	TVS
	Ammonia	TVS	TVS	Iron	---	WS
	Boron	---	0.75	Iron(T)	---	1950
	Chloride	---	250	Lead	TVS	TVS
	Chlorine	0.019	0.011	Lead(T)	50	---
	Cyanide	0.005	---	Manganese	TVS	TVS/WS
	Nitrate	10	---	Mercury(T)	---	0.01
	Nitrite	0.5	---	Molybdenum(T)	---	150
	Phosphorus	---	---	Nickel	TVS	TVS
	Sulfate	---	902	Nickel(T)	---	100
	Sulfide	---	0.002	Selenium	TVS	TVS
				Silver	TVS	TVS
				Uranium	varies*	varies*
			Zinc	TVS	TVS	

All metals are dissolved unless otherwise noted.
T = total recoverable
t = total
tr = trout

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 32.6 for further details on applied standards.

STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS – FOOTNOTES

- (A) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. Control requirements, such as discharge permit effluent limitations, shall be established using the first number in the range as the ambient water quality target, provided that no effluent limitation shall require an "end-of-pipe" discharge level more restrictive than the second number in the range. Water bodies will be considered in attainment of this standard, and not included on the Section 303(d) List, so long as the existing ambient quality does not exceed the second number in the range.
- (B) *Reserved.*
- (C) *Reserved.*