

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

5 CCR 1002-38

**REGULATION NO. 38
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
SOUTH PLATTE RIVER BASIN, LARAMIE RIVER BASIN
REPUBLICAN RIVER BASIN, SMOKY HILL RIVER BASIN**

**APPENDIX 38-1
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 #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper South Platte River Basin

15. Mainstem of the South Platte River from the Burlington Ditch diversion in Denver, Colorado, to a point immediately below the confluence with Big Dry Creek.							
COSPUS15	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
					acute	chronic	
UP	Agriculture	Temperature °C	WS-I	WS-I	Arsenic	340	---
	Aq Life Warm 1				Arsenic(T)	---	0.02
	Recreation E		acute	chronic	Cadmium	TVS	TVS
	Water Supply	D.O. (mg/L)	varies*	varies*	Cadmium(T)	5.0	---
Qualifiers:		pH	6.0-9.0*	---	Chromium III	---	TVS
Other:		pH	6.5 - 9.0	---	Chromium III(T)	50	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Copper	---	TVS*
Expiration Date of 12/31/2024					Copper	TVS*	---
temperature(DM/MWAT) = current condition*					Iron	---	WS
Expiration Date of 12/31/2021					Iron(T)	---	1000
Discharger Specific Variance(s):					Lead	TVS	TVS
Selenium(acute) = TVS: no limit					Lead(T)	50	---
Selenium(chronic) = TVS: 24 µg/L					Manganese	TVS	TVS/400
Expiration Date of 12/31/2023					Mercury(T)	---	0.01
*Ammonia(acute) = See section 38.6(4) for site-specific standards.					Molybdenum(T)	---	150
*Ammonia(chronic) = See section 38.6(4) for site-specific standards.					Nickel	TVS	TVS
*Copper(acute) = Copper BLM-based FMB					Nickel(T)	---	100
Cu FMB(ac)=26.4 ug/l					Selenium	TVS	TVS
Downstream of the Metro Hite WWTF outfall.					Silver	TVS	TVS
Copper(chronic) = Copper BLM-based FMB					Uranium	varies	varies*
Cu FMB(ch)= 18.0 ug/l					Zinc	TVS	TVS
Downstream of the Metro Hite WWTF outfall.							
*Uranium(acute) = See 38.5(3) for details.							
*Uranium(chronic) = See 38.5(3) for details.							
*D.O. (mg/L)(acute) = See section 38.6(4) for site-specific standards.							
*D.O. (mg/L)(chronic) = See section 38.6(4) for site-specific standards.							
*pH(acute) = 6.0 - 9.0 from 64th Ave. downstream 2 miles							
*TempMod: temperature = Adopted 6/8/2009							
*Variance: Selenium = see 38.6(6) for details.							

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 38.6 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) Assessment of adequate refuge shall rely on the Cold Large Lake table value temperature criterion and applicable dissolved oxygen standard rather than the site-specific temperature standard.