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 ~~12/31/2020~~06/30/2021

Abbreviations and Acroynms

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	=	*Escherichia coli*
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
Designation	Agriculture
UP	Aq Life Warm 1
	Recreation E
	Water Supply

Qualifiers:

Other:

Temporary Modification(s):

Arsenic(chronic) = hybrid

Expiration Date of 12/31/2024

temperature(DM/MWAT) = current condition*

Expiration Date of 12/31/2021

Discharger Specific Variance(s):

Selenium(acute) = TVS: no limit

Selenium(chronic) = TVS: 24 µg/L

Expiration Date of 12/31/2023

*Ammonia(acute) = See section 38.6(4) for site-specific standards.
*Ammonia(chronic) = See section 38.6(4) for site-specific standards.
*Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=26.4 ug/l
Downstream of the Metro Hite WWTF outfall.
*Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)= 18.0 ug/l
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.

Physical and Biological

	DM	MWAT
Temperature °C	WS-I	WS-I
	acute	**chronic**
D.O. (mg/L)	varies*	varies*
pH	6.0-9.0*	---
pH	6.5 - 9.0	---
chlorophyll a (mg/m^2)	---	---
E. Coli (per 100 mL)	---	126

Inorganic (mg/L)

	acute	chronic
Ammonia	TVS*	TVS*
Boron	---	0.75
Chloride	---	250
Chlorine	0.019	0.011
Cyanide	0.005	---
Nitrate	10	---
Nitrite	1.0	---
Phosphorus	---	---
Sulfate	---	WS
Sulfide	---	0.002

Metals (ug/L)

	acute	chronic
Arsenic	340	---
Arsenic(T)	---	0.02
Cadmium	TVS	TVS
Cadmium(T)	5.0	---
Chromium III	---	TVS
Chromium III(T)	50	---
Chromium VI	TVS	TVS
Copper	---	TVS*
Copper	TVS*	---
Iron	---	WS
Iron(T)	---	1000
Lead	TVS	TVS
Lead(T)	50	---
Manganese	TVS	TVS/400
Mercury(T)	---	0.01
Molybdenum(T)	---	150
Nickel	TVS	TVS
Nickel(T)	---	100
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 38.6 for further details on applied standards.