

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

WATER QUALITY CONTROL COMMISSION

5 CCR 1002-35

REGULATION NO. 35

**CLASSIFICATIONS AND NUMERIC STANDARDS
FOR**

GUNNISON AND LOWER DOLORES RIVER BASINS

APPENDIX 35-1

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
sc	=	sculpin
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 #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

11. Mainstem of Coal Creek from a point immediately above the confluence with Elk Creek to a point immediately above the Keystone Mine discharge (38.867117, -107.023627). Elk Creek and its tributaries and wetlands from its source to its confluence with Coal Creek.

COGUUG11	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	---	---	Aluminum	---		
Qualifiers:		acute	chronic	D.O. (mg/L)	---	6.0	Arsenic	340	---
Other:				D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
				pH	6.5 - 9.0	---	Beryllium	---	---
				chlorophyll a (mg/m ²)	---	150	Cadmium	TVS	TVS
				E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
							Chromium III	---	TVS
							Chromium III(T)	50	---
							Chromium VI	TVS	TVS
							Copper	TVS	TVS
							Iron	---	WS
							Iron(T)	---	1000
							Lead	TVS	TVS
							Lead(T)	50	---
							Manganese	TVS	TVS/WS
							Mercury	---	0.01(t)
							Molybdenum(T)	---	210
							Nickel	TVS	TVS
							Nickel(T)	---	100
							Selenium	TVS	TVS
							Silver	TVS	TVS(tr)
							Uranium	---	---
							Zinc	TVS	TVS

12. Mainstem of Coal Creek, including all tributaries and wetlands from a point immediately above the Keystone Mine discharge (38.867117, -107.023627) to the confluence with the Slate River, with the exception of Wildcat Creek.

COGUUG12	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	---	---	Aluminum	---		
Qualifiers:		acute	chronic	D.O. (mg/L)	---	6.0	Arsenic	340	---
Other:				D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
				pH	6.5 - 9.0	---	Beryllium	---	---
				chlorophyll a (mg/m ²)	---	150	Cadmium	TVS	TVS
				E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
							Chromium III	---	TVS
							Chromium III(T)	50	---
							Chromium VI	TVS	TVS
							Copper	TVS	TVS
							Iron	---	WS
							Iron(T)	---	1000
							Lead	TVS	TVS
							Lead(T)	50	---
							Manganese	TVS	TVS/191
							Mercury	---	0.01(t)
							Molybdenum(T)	---	150
							Nickel	TVS	TVS
							Nickel(T)	---	100
							Selenium	TVS	TVS
							Silver	TVS	TVS(tr)
							Uranium	---	---
							Zinc	TVS	TVS

Temporary Modification(s):
 Arsenic(chronic) = hybrid
 Expiration Date of 12/31/2024
 Cadmium(ac/ch) = 3.5/2.79* 4/1 - 6/30
 Copper(acute) = current condition* 4/1 - 6/30
 Zinc(chronic) = 576* 4/1 - 6/30
 Expiration Date of 12/31/2022
 *TempMod: Cadmium(4/1 - 6/30) = Coal Creek. Adopted 6/12/2017(ac) and 6/12/2006(ch).
 *TempMod: Copper(4/1 - 6/30) = Coal Creek. Adopted 6/12/2017.
 *TempMod: Zinc(4/1 - 6/30) = Coal Creek. Adopted 7/9/2001.

All metals are dissolved unless otherwise noted.
 T = total recoverable
 t = total
 tr = trout
 sc = sculpin
 D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Gunnison River Basin

21. Mainstem of Marshall Creek, including all tributaries and wetlands, from the source to the confluence with Tomichi Creek, except for specific listings in Segment 20.							
COGUUG21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Aluminum	---	---	
	Recreation U	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	6.0	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (spawning)	7.0	Beryllium	---	---	
Other:		pH	6.5 - 9.0	Cadmium	TVS	TVS	
Temporary Modification(s):		chlorophyll a (mg/m ²)	150	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	126	Chromium III	---	TVS	
Expiration Date of 12/31/2024		Inorganic (mg/L)			Chromium III(T)	50	---
Uranium(chronic) = current condition*		acute	chronic	Chromium VI	TVS	TVS	
Expiration Date of 12/31/2022		Ammonia	TVS	Copper	TVS	TVS	
*TempMod: Uranium = Mainstem of Marshall Creek from the confluence with Indian Creek to the confluence with Tomichi Creek. Adopted 6/12/2017.		Boron	---	Iron	---	WS	
		Chloride	---	Iron(T)	---	1000	
		Chlorine	0.019	Lead	TVS	TVS	
		Cyanide	0.005	Lead(T)	50	---	
		Nitrate	10	Manganese	TVS	TVS/WS	
		Nitrite	0.05	Mercury	---	0.01(t)	
		Phosphorus	---	Molybdenum(T)	---	150	
		Sulfate	---	Nickel	TVS	TVS	
		Sulfide	---	Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				Uranium(T)	---	16.8-30 ^A	
				Zinc	TVS	TVS	
22. Mainstem of Gold Creek from Browns Gulch to the confluence with Quartz Creek.							
COGUUG22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	Aluminum	---	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	6.0	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (spawning)	7.0	Beryllium	---	---	
Other:		pH	6.5 - 9.0	Cadmium	TVS	TVS	
Temporary Modification(s):		chlorophyll a (mg/m ²)	150	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	126	Chromium III	---	TVS	
Expiration Date of 12/31/2024		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	Copper	TVS	TVS	
		Boron	---	Iron	---	WS	
		Chloride	---	Iron(T)	---	1000	
		Chlorine	0.019	Lead	TVS	TVS	
		Cyanide	0.005	Lead(T)	50	---	
		Nitrate	10	Manganese	TVS	TVS/WS	
		Nitrite	0.05	Mercury	---	0.01(t)	
		Phosphorus	---	Molybdenum(T)	---	150	
		Sulfate	---	Nickel	TVS	TVS	
		Sulfide	---	Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				Zinc	TVS	TVS	

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

D.O. = dissolved oxygen
 DM = daily maximum
 MWAT = maximum weekly average temperature
 See 35.6 for further details on applied standards.

REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Lower Gunnison Basin

1. Mainstem of the Gunnison River from the outlet of Crystal Reservoir to Highway 65 (38.772574, -108.002634).						
COGULG01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
Water Supply		D.O. (mg/L)	---	6.0	Arsenic(T)	---
		D.O. (spawning)	---	7.0	Beryllium	---
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS
Other:		chlorophyll a (mg/m ²)	---	---	Cadmium(T)	5.0
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium III(T)	50
Expiration Date of 12/31/2024					Chromium VI	TVS
			acute	chronic	Copper	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS
						TVS/TVS(sc)

2. Mainstem of the Gunnison River from Highway 65 (38.772574, -108.002634) to the confluence with the Colorado River.						
COGULG02	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
Water Supply		D.O. (mg/L)	---	5.0	Arsenic(T)	---
		pH	6.5 - 9.0	---	Beryllium	---
Qualifiers:		chlorophyll a (mg/m ²)	---	---	Cadmium	TVS
Other:		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Temporary Modification(s):		Inorganic (mg/L)			Chromium III	---
Arsenic(chronic) = hybrid					Chromium III(T)	50
Expiration Date of 12/31/2024		Chromium VI	TVS	TVS	Copper	TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	480	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS
						TVS

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

D.O. = dissolved oxygen
DM = daily maximum
MWAT = maximum weekly average temperature
See 35.6 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) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.