

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

5 CCR 1002-34

**REGULATION NO. 34
CLASSIFICATIONS AND NUMERIC STANDARDS
FOR
SAN JUAN RIVER AND DOLORES RIVER BASINS**

**APPENDIX 34-1
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 #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS
La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

6c. All tributaries to the Mancos River located in Mesa Verde National Park.

COSJLP06C	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
OW	Agriculture						
	Aq Life Warm 1	WS-III	WS-III	Temperature °C	---	---	
	Recreation E	acute	chronic				
Qualifiers:	D.O. (mg/L)	---	5.0	Arsenic	340	---	
Other:	pH	6.5 - 9.0	---	Arsenic(T)	---	7.6	
	chlorophyll a (mg/m ²)	---	150	Beryllium	---	---	
	E. Coli (per 100 mL)	---	126	Cadmium	TVS	TVS	
	Inorganic (mg/L)			Chromium III	TVS	TVS	
			acute	chronic	Chromium III(T)	---	100
	Ammonia	TVS	TVS	Chromium VI	TVS	TVS	
	Boron	---	0.75	Copper	TVS	TVS	
	Chloride	---	---	Iron(T)	---	1000	
	Chlorine	0.019	0.011	Lead	TVS	TVS	
	Cyanide	0.005	---	Manganese	TVS	TVS	
	Nitrate	100	---	Mercury	---	0.01(t)	
	Nitrite	0.05	---	Molybdenum(T)	---	---	
	Phosphorus	---	0.17	Nickel	TVS	TVS	
	Sulfate	---	---	Selenium	TVS	TVS	
	Sulfide	---	0.002	Silver	TVS	TVS	
				Uranium	---	---	
				Zinc	TVS	TVS	

7a. Mainstem of McElmo Creek from the source to the confluence with Alkali Canyon. Mainstem of Yellow Jacket Creek, including all tributaries and wetlands, from the source to the confluence with McElmo Creek.

COSJLP07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture						
	Aq Life Warm 1	WS-II	WS-II	Temperature °C	---	---	
	Recreation E	acute	chronic				
Qualifiers:	D.O. (mg/L)	---	5.0	Arsenic	340	---	
Other:	pH	6.5 - 9.0	---	Arsenic(T)	---	7.6	
	chlorophyll a (mg/m ²)	---	150*	Beryllium	---	---	
	E. Coli (per 100 mL)	---	126	Cadmium	TVS	TVS	
	Inorganic (mg/L)			Chromium III	TVS	TVS	
			acute	chronic	Chromium III(T)	---	100
	Ammonia	TVS	TVS	Chromium VI	TVS	TVS	
	Boron	---	0.75	Copper	TVS	TVS	
	Chloride	---	---	Iron(T)	---	2200	
	Chlorine	0.019	0.011	Lead	TVS	TVS	
	Cyanide	0.005	---	Manganese	TVS	TVS	
	Nitrate	100	---	Mercury	---	0.01(t)	
	Nitrite	0.05	---	Molybdenum(T)	---	150	
	Phosphorus	---	0.17*	Nickel	TVS	TVS	
	Sulfate	---	---	Selenium	TVS	TVS	
	Sulfide	---	0.002	Silver	TVS	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 34.6 for further details on applied standards.

REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS
La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

9. Unnamed tributary to Ritter Draw (confluence at 37.4059, -108.5325).

COSJLP09	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-III	WS-III	Aluminum	---	---	
			acute	chronic	Arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	100	
Other:	*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).	pH	6.5 - 9.0	---	Beryllium	---	---	
		chlorophyll a (mg/m ²)	---	150*		Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126		Chromium III	TVS	TVS
			Inorganic (mg/L)			Chromium III(T)	---	100
				acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS		Copper	TVS	TVS
		Boron	---	0.75		Iron(T)	---	1000
		Chloride	---	250		Lead	TVS	TVS
		Chlorine	0.019	0.011		Manganese	TVS	TVS
		Cyanide	0.005	---		Mercury	---	0.01(t)
		Nitrate	100	---		Molybdenum(T)	---	150
		Nitrite	0.05	---		Nickel	TVS	TVS
		Phosphorus	---	0.17*		Selenium	TVS	TVS
		Sulfate	---	250		Silver	TVS	TVS
		Sulfide	---	0.002		Uranium	---	---
					Zinc	TVS	TVS	

10. All tributaries to the San Juan River in Montezuma Dolores and San Miguel Counties, including all wetlands, except for the specific listings in Segments 2 through 8c and Segments 10b and 11.

COSJLP10	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-III	WS-III	Aluminum	---	---	
			acute	chronic	Arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	7.6	
Other:	Discharger Specific Variance(s): Ammonia(ac/ch) = See Section 34.6(e) for details on variance for the Town of Dove Creek. Expiration Date of 6/30/2025 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).	pH	6.5 - 9.0	---	Beryllium	---	---	
		chlorophyll a (mg/m ²)	---	150*		Beryllium(T)	---	100
		E. Coli (per 100 mL)	---	126		Cadmium	TVS	TVS
			Inorganic (mg/L)			Chromium III	TVS	TVS
				acute	chronic	Chromium III(T)	---	100
		Ammonia	TVS	TVS		Chromium VI	TVS	TVS
		Boron	---	0.75		Copper	TVS	TVS
		Chloride	---	---		Iron(T)	---	1000
		Chlorine	0.019	0.011		Lead	TVS	TVS
		Cyanide	0.005	---		Manganese	TVS	TVS
		Nitrate	100	---		Mercury	---	0.01(t)
		Nitrite	---	---		Molybdenum(T)	---	150
		Phosphorus	---	0.17*		Nickel	TVS	TVS
		Sulfate	---	---		Selenium	TVS	TVS
		Sulfide	---	0.002		Silver	TVS	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 34.6 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.
- (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.