

**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

Animas and Florida River Basins

3a. Mainstem of the Animas River, including wetlands, from a point immediately below the confluence with Minnie Gulch to immediately above the confluence with Cement Creek.								
COSJAF03A	Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1*		CS-I	CS-I	Aluminum(T)	750	750	
	Recreation E		acute	chronic	Arsenic	340	---	
Qualifiers:			D.O. (mg/L)	---	6.0	Arsenic(T)	---	100
Other:			D.O. (spawning)	---	7.0	Beryllium	---	---
			pH	6.5 - 9.0	---	Cadmium	TVS	varies*
			chlorophyll a (mg/m ²)	---	150	Chromium III	TVS	TVS
			E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
			Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS	
			Ammonia	TVS	TVS	Iron(T)	---	1000
			Boron	---	0.75	Lead	TVS	TVS
			Chloride	---	---	Manganese	---	varies*
			Chlorine	0.019	0.011	Mercury	---	0.01(t)
			Cyanide	0.005	---	Molybdenum(T)	---	150
			Nitrate	100	---	Nickel	TVS	TVS
			Nitrite	---	---	Selenium	TVS	TVS
			Phosphorus	---	0.11	Silver	TVS	TVS(tr)
			Sulfate	---	---	Uranium	---	---
			Sulfide	---	0.002	Zinc	varies*	varies*
3b. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Cement Creek to a point immediately above the confluence with Mineral Creek.								
COSJAF03B	Classifications		Physical and Biological			Metals (ug/L)		
Designation	Recreation E	5/15 - 9/10	DM	MWAT		acute	chronic	
UP	Recreation N	9/11 - 5/14	---	---	Aluminum	---	---	
Qualifiers:			acute	chronic	Arsenic	---	---	
Other:			D.O. (mg/L)	---	3.0	Beryllium	---	
			pH	6.0-9.0	---	Cadmium	---	
			chlorophyll a (mg/m ²)	---	150*	Chromium III	---	
			E. Coli (per 100 mL)	5/15 - 9/10	---	Chromium VI	---	
			E. Coli (per 100 mL)	9/11 - 5/14	---	Copper	---	
			Inorganic (mg/L)			Iron	---	
			acute	chronic	Lead	---	---	
			Ammonia	---	---	Manganese	---	
			Boron	---	---	Mercury	---	
			Chloride	---	---	Molybdenum(T)	---	
			Chlorine	---	---	Nickel	---	
			Cyanide	---	---	Selenium	---	
			Nitrate	---	---	Silver	---	
			Nitrite	---	---	Uranium	---	
			Phosphorus	---	---	Zinc	---	
			Sulfate	---	---			
			Sulfide	---	---			

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

Animas and Florida River Basins

3c. Arrastra Gulch including all tributaries and wetlands from the source to the confluence with the Animas River.						
COSJAF03C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Cold 2 Recreation E	CS-I	CS-I	Aluminum	---	---
Qualifiers:		acute	chronic	Arsenic	340	---
Other:		D.O. (mg/L)	---	6.0	Arsenic(T)	---
D.O. (spawning) --- 7.0 pH 6.5 - 9.0 --- chlorophyll a (mg/m ²) --- 150 E. Coli (per 100 mL) --- 126 <div style="text-align: center;">Inorganic (mg/L)</div> <div style="text-align: center;">acute chronic</div> Ammonia TVS TVS Boron --- 0.75 Chloride --- --- Chlorine 0.019 0.011 Cyanide 0.005 --- Nitrate 100 --- Nitrite 0.05 --- Phosphorus --- 0.11 Sulfate --- --- Sulfide --- 0.002		---	6.0	Arsenic(T)	---	100
		Beryllium	---	---		
		Cadmium	TVS	TVS		
		Chromium III	TVS	TVS		
		Chromium III(T)	---	100		
		Chromium VI	TVS	TVS		
		Copper	TVS	TVS		
		Iron(T)	---	1000		
		Lead	TVS	TVS		
		Manganese	TVS	TVS		
		Mercury	---	0.01(t)		
		Molybdenum(T)	---	150		
		Nickel	TVS	TVS		
		Selenium	TVS	TVS		
		Silver	TVS	TVS(tr)		
		Uranium	---	---		
		Zinc	TVS	TVS		

4a. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Mineral Creek to a point immediately above the confluence with Deer Park Creek.						
COSJAF04A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Cold 2* Recreation E	CS-I	CS-I	Aluminum	varies*	varies*
Qualifiers:		acute	chronic	Arsenic	340	---
Other:		D.O. (mg/L)	---	6.0	Arsenic(T)	---
D.O. (spawning) --- 7.0 pH varies* --- chlorophyll a (mg/m ²) --- --- E. Coli (per 100 mL) --- 126 <div style="text-align: center;">Inorganic (mg/L)</div> <div style="text-align: center;">acute chronic</div> Ammonia TVS TVS Boron --- 0.75 Chloride --- --- Chlorine 0.019 0.011 Cyanide 0.005 --- Nitrate 100 --- Nitrite --- --- Phosphorus --- --- Sulfate --- --- Sulfide --- 0.002		---	6.0	Arsenic(T)	---	100
		Beryllium	---	---		
		Cadmium	TVS	TVS		
		Chromium III	TVS	TVS		
		Chromium III(T)	---	100		
		Chromium VI	TVS	TVS		
		Copper	TVS	TVS		
		Iron	---	varies*		
		Lead	TVS	TVS		
		Manganese	TVS	TVS		
		Mercury	---	0.01(t)		
		Molybdenum(T)	---	150		
		Nickel	TVS	TVS		
		Selenium	TVS	TVS		
		Silver	TVS	TVS(tr)		
		Uranium	---	---		
		Zinc	varies*	varies*		

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 ---
Qualifiers:			acute	chronic		
Other:		D.O. (mg/L)	---	5.0	---	100
		pH	6.5 - 9.0	---	---	---
		chlorophyll a (mg/m ²)	---	150*	TVS	TVS
		E. Coli (per 100 mL)	---	126	TVS	TVS
		Inorganic (mg/L)			---	100
			acute	chronic	TVS	TVS
		Ammonia	TVS	TVS	TVS	TVS
		Boron	---	0.75	---	1000
		Chloride	---	250	TVS	TVS
		Chlorine	0.019	0.011	TVS	TVS
		Cyanide	0.005	---	---	0.01(t)
		Nitrate	100	---	---	150
		Nitrite	0.05	---	TVS	TVS
		Phosphorus	---	0.17*	TVS	TVS
		Sulfate	---	250	TVS	TVS
		Sulfide	---	0.002	---	---
					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.

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 ---
Qualifiers:			acute	chronic		
Other:		D.O. (mg/L)	---	5.0	---	7.6
		pH	6.5 - 9.0	---	---	---
		chlorophyll a (mg/m ²)	---	150*	---	100
		E. Coli (per 100 mL)	---	126	TVS	TVS
		Inorganic (mg/L)			TVS	TVS
			acute	chronic	---	100
		Ammonia	TVS	TVS	TVS	TVS
		Boron	---	0.75	TVS	TVS
		Chloride	---	---	---	1000
		Chlorine	0.019	0.011	TVS	TVS
		Cyanide	0.005	---	TVS	TVS
		Nitrate	100	---	---	0.01(t)
		Nitrite	---	---	---	150
		Phosphorus	---	0.17*	TVS	TVS
		Sulfate	---	---	TVS	TVS
		Sulfide	---	0.002	TVS	TVS
					---	---
					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.