

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

**5 CCR 1002-33**

**REGULATION NO. 33  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
UPPER COLORADO RIVER BASIN AND  
NORTH PLATTE RIVER (PLANNING REGION 12)**

**APPENDIX 33-1  
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 <sup>2</sup>	=	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 #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Yampa River Basin

6. Mainstem of Oak Creek, including all tributaries and wetlands, from the source to a point 0.25 mile below County Road 27 (40.279241, -106.965405).						
COUCYA06	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340 ---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	--- 0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
	D.O. (spawning)	---	7.0		Cadmium(T)	5.0 ---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	--- TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Copper	TVS TVS
Expiration Date of 12/31/2024			<b>acute</b>	<b>chronic</b>	Iron	--- WS
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	--- 1000
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead	TVS TVS
		Chloride	---	250	Lead(T)	50 ---
		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
		Cyanide	0.005	---	Mercury(T)	--- 0.01
		Nitrate	10	---	Molybdenum(T)	--- 150
		Nitrite	0.05	---	Nickel	TVS TVS
		Phosphorus	---	0.11	Nickel(T)	--- 100
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS

  

7. Mainstem of Oak Creek, including all tributaries and wetlands, from a point 0.25 mile below County Road 27 (40.279241, -106.965405) to the confluence with the Yampa River.						
COUCYA07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340 ---
	Recreation P		<b>acute</b>	<b>chronic</b>	Arsenic(T)	--- 0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS TVS
	D.O. (spawning)	---	7.0		Cadmium(T)	5.0 ---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	--- TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50 ---
Temporary Modification(s):		E. Coli (per 100 mL)	---	205	Chromium VI	TVS TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Copper	TVS TVS
Expiration Date of 12/31/2024			<b>acute</b>	<b>chronic</b>	Iron	--- WS
Discharger Specific Variance(s):		Ammonia	TVS	TVS	Iron(T)	--- 1000
Nitrate(acute) = See Section 33.6(c) for details on variance for the Town of Oak Creek.		Boron	---	0.75	Lead	TVS TVS
Expiration Date of 6/30/2026		Chloride	---	250	Lead(T)	50 ---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		Chlorine	0.019	0.011	Mercury(T)	--- 0.01
*Uranium(acute) = See 33.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	--- 150
*Uranium(chronic) = See 33.5(3) for details.		Nitrate	10	---	Nickel	TVS TVS
		Nitrite	0.05	---	Nickel(T)	--- 100
		Phosphorus	---	0.11*	Selenium	TVS TVS
		Sulfate	---	WS	Silver	TVS TVS(tr)
		Sulfide	---	0.002	Uranium	varies* varies*
					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 33.6 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.