

REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Arkansas River Basin

8b. Mainstem of Iowa Gulch from a point immediately below the historic upper ASARCO water supply intake at 39.224327, -106.223432 to a point immediately below the headgate of the Paddock #1 Ditch (Iowa Ditch).

COARUA08B Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 2 Recreation E	DM	MWAT	acute chronic			
UP			Temperature °C	CS-II	CS-II	Aluminum	---
			acute	chronic	Arsenic	340	---
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	100
Other:		D.O. (spawning)	---	7.0	Beryllium	---	---
Temporary Modification(s):		pH	6.5 - 9.0	---	Cadmium	SSE*	TVS
Cadmium(chronic) = 1.6		chlorophyll a (mg/m2)	---	150	Chromium III	TVS	TVS
Zinc(acute) = 754		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
Zinc(chronic) = 505					Chromium VI	TVS	TVS
Expiration Date of 12/31/2018					Copper	TVS	TVS
*Cadmium(acute) = (1.136672- [ln(hardness)*0.041838]*e^(0.9789*ln(hardness)- 3.5146)					Inorganic (mg/L)		
						acute	chronic
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Mercury	---	0.01(t)
		Cyanide	---	---	Molybdenum(T)	---	160
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.11	Silver	TVS	TVS(tr)
		Sulfate	---	---	Uranium	---	---
		Sulfide	---	0.002	Zinc	TVS	TVS

9. Mainstem of Iowa Gulch from a point immediately below the headgate of the Paddock #1 Ditch (Iowa Ditch) to the confluence with the Arkansas River.

COARUA09 Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E	DM	MWAT	acute chronic			
Reviewable			Temperature °C	CS-I	CS-I	Aluminum	---
			acute	chronic	Arsenic	340	---
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	7.6
Other:		D.O. (spawning)	---	7.0	Beryllium	---	---
Temporary Modification(s):		pH	6.5 - 9.0	---	Cadmium	SSE*	TVS
Cadmium(acute) = (1.136672- [ln(hardness)*0.041838]*e^(0.9789*ln(hardness)- 3.5146)		chlorophyll a (mg/m2)	---	150	Chromium III	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---	100
					Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Inorganic (mg/L)		
						acute	chronic
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	---	Manganese	TVS	TVS
		Chlorine	0.019	0.011	Mercury	---	0.01(t)
		Cyanide	0.005	---	Molybdenum(T)	---	160
		Nitrate	100	---	Nickel	TVS	TVS
		Nitrite	---	0.05	Selenium	TVS	TVS
		Phosphorus	---	0.11	Silver	TVS	TVS(tr)
		Sulfate	---	---	Uranium	---	---
		Sulfide	---	0.002	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 32.6 for details on TVS, TVS(tr), WS, temperature standards.