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 9/30/2022

Abbreviations and Acronyms

Aquatic

Aq °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

daily maximum temperature DM DUWS direct use water supply

E. coli Escherichia coli EQ existing quality milligrams per liter mg/L

mg/m² milligrams per square meter

milliliter mL =

MWAT maximum weekly average temperature

OW outstanding waters

= sculpin SC

SSE site-specific equation = total recoverable Τ =

total t = trout tr

TVS = table value standard μg/L micrograms per liter ÜP = use-protected WS = water supply

warm stream temperature tier one WS-I = WS-II = warm stream temperature tier two WS-III = warm stream temperature tier three

warm lake temperature tier WL

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Blue River Basin

13. Mainstem of Tenmile Creek from the Climax Parshall Flume (39.447556, -106.157003) to a point immediately above the confluence of West Tenmile Creek and all tributaries and wetlands from the source of Tenmile Creek to a point immediately above the confluence with West Tenmile Creek, except for the specific listing in Segment 15.

COUCBL13	Classifications	Physical and Bio	ological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation P		acute	chronic	Arsenic(T)		7.6
Qualifiers:		D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Other:		D.O. (spawning)		7.0	Chromium III	TVS	TVS
*Any water quality based effluent limit shall not cause or contribute to exceedances of water quality		pH	6.5 - 9.0		Chromium III(T)		100
		chlorophyll a (mg/m²)		150*	Chromium VI	TVS	TVS
standards ado	pted to protect downstream uses.	E. coli (per 100 mL)		205	Copper	TVS	TVS
the facilities lis	(mg/m ²)(chronic) = applies only above sted at 33.5(4).				Iron(T)		1000
*Phosphorus(of facilities listed	chronic) = applies only above the	Inorganic (mg/L)			Lead	TVS	TVS
	te) = See 33.5(3) for details.		acute	chronic	Manganese	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	Ammonia	TVS	TVS	Mercury(T)		0.01
		Boron		0.75	Molybdenum(T)		
		Chloride			Nickel	TVS	TVS
		Chlorine	0.019	0.011	Selenium	TVS	TVS
		Cyanide	0.005		Silver	TVS	TVS(tr)
		Nitrate	100		Uranium	varies*	varies*
		Nitrite		0.05	Zinc	TVS	TVS/TVS(sc)
		Phosphorus		0.11*			
		Sulfate					
		Sulfide		0.002			

14. Mainstem of Tenmile Creek, including all tributaries and wetlands, from a point immediately above the confluence with West Tenmile Creek to Dillon Reservoir, except for the specific listings in Segment 16.

COUCBL14	Classifications	Physical and Bio	ogical		ı	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chron	, ,	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	te of 12/31/2024				Copper	TVS	TVS
Molybdenum(chronic) = current	Inorganic (n	ng/L)		Iron		WS
	te of 12/31/2023		acute	chronic	Iron(T)		1000
*chlorophyll a	(mg/m ²)(chronic) = applies only above	Ammonia	TVS	TVS	Lead	TVS	TVS
the facilities lis	sted at 33.5(4).	Boron		0.75	Lead(T)	50	
*Phosphorus(of facilities listed	chronic) = applies only above the	Chloride		250	Manganese	TVS	TVS/WS
	te) = See 33.5(3) for details.	Chlorine	0.019	0.011	Mercury(T)		0.01
*Uranium(chro	onic) = See 33.5(3) for details.	Cyanide	0.005		Molybdenum(T)		210
*TempMod: M	olybdenum = Adopted 6/9/2014	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/TVS(sc)

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

COUCYA02B Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
Temporary Mo	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)	50	
Arsenic(chronic	c) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
	WAT) = current				Copper	TVS	TVS
	e of 12/31/2024	Inorganic (mg/L)		Iron		WS	
·			acute	chronic	Iron(T)		1000
,	, , ,	Ammonia	TVS	TVS	Lead	TVS	TVS
`	, , ,	Boron		0.75	Lead(T)	50	
See 33.6(4) for	temperature standards.	Chloride		250	Manganese	TVS	TVS/WS
	Agriculture Aq Life Cold 1 Recreation E Water Supply Italifiers: her: Imporary Modification(s): Imperature(MWAT) = current Inditions* Inditions* Inditions of 12/31/2024 Iranium(acute) = See 33.5(3) for details. Iranium(chronic) = See 33.5	Chlorine	0.019	0.011	Mercury(T)		0.01
		Cyanide	0.005		Molybdenum(T)	340 TVS 5.0 50 TVS TVS TVS 50 TVS TVS 50 TVS 50 TVS	150
		Nitrate	10		Nickel	TVS	TVS
		Nitrite		0.05	Nickel(T)		100
		Phosphorus			Selenium	TVS	TVS
		Sulfate		WS	Silver	TVS	TVS(tr)
		Sulfide		0.002	Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
	s to the Yampa River, including all w er, including all tributaries and wetla						ınd 4-7. Mainste
COUCYA03	Classifications	Physical and	Biological			Metals (ug/L)	

COUCYA03	Classifications	Physical and Bi	ological		I	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		рН	6.5 - 9.0		Chromium III		TVS
Temporary M	lodification(s):	chlorophyll a (mg/m²)		150*	Chromium III(T)	50	
Arsenic(chron	ic) = hybrid	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
Expiration Dat	te of 12/31/2024				Copper	TVS	TVS
chlorophyll a	(mg/m²)(chronic) = applies only above	Inorganic (mg/L)		Iron		WS	
	sted at 33.5(4). chronic) = applies only above the		acute	chronic	Iron(T)		1000
acilities listed		Ammonia	TVS	TVS	Lead	TVS	TVS
Uranium(acu	te) = See 33.5(3) for details.	Boron		0.75	Lead(T)	50	
Uranium(chro	onic) = See 33.5(3) for details.	Chloride		250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)		0.01
		Cyanide	0.005		Molybdenum(T)		150
		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/TVS(sc)

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

13d Mainston	of Dry Creek, including all tributaries a	and wetlands from the source to sh	ove the confluer	nce with Ton	nnle Gulch		
	Classifications	Physical and Bio		ice with Ten	i e	Metals (ug/L)	
	Agriculture	,	DM	MWAT		acute	chronic
	Ag Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Recreation E	Tomporataro o	acute	chronic	Arsenic(T)		100
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Other		pH	6.5 - 9.0		Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m²)		150	Chromium III(T)		100
	c) = See section 33.6(4) for standards	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
and assessment locations. *Uranium(acute) = See 33.5(3) for details.		Inorganic (i		120	Copper	TVS	TVS
,	nic) = See 33.5(3) for details.	inorganic (i		ohronio	Iron(T)		varies*
Oraniam(onio	7110) - 000 00.0(0) for details.	Ammonio	acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS		TVS	TVS
		Boron		0.75	Manganese		
		Chloride			Mercury(T)		0.01
	Chlorine	0.019	0.011	Molybdenum(T)	 TVC	150 TV0	
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			
	of Sage Creek, including all tributaries	1		ith the Yam			
	Classifications	Physical and Bio	_			Metals (ug/L)	
	Agriculture		DM	MWAT		acute	chronic
	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Water Supply		acute	chronic	Arsenic(T)		0.02-10 ^A
	Recreation N	D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Qualifiers:		pH	6.5 - 9.0		Cadmium(T)	5.0	
Other:		chlorophyll a (mg/m²)			Chromium III		T) (O
Temporary Mo	odification(s):	C!: / 400! \			Chiomian in		TVS
Selenium(chro	Julioation(3).	E. coli (per 100 mL)		630	Chromium III(T)	50	
	nic) = current	Inorganic (
conditions*	nic) = current	· ·			Chromium III(T)	50	
conditions [*] Expiration Date	nic) = current e of 12/31/2023	· ·	ng/L)	630	Chromium III(T) Chromium VI	50 TVS	TVS
conditions* Expiration Date *Iron(T)(chronic	nic) = current	Inorganic (I	mg/L) acute	630	Chromium III(T) Chromium VI Copper	50 TVS TVS	TVS
conditions* Expiration Date *Iron(T)(chronic and assessmen	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards	Inorganic (i	acute	630 chronic TVS	Chromium III(T) Chromium VI Copper Iron	50 TVS TVS 	TVS TVS WS
conditions* Expiration Date *Iron(T)(chronic and assessmen *Uranium(acute	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek.	Inorganic (i Ammonia Boron	acute TVS	chronic TVS 0.75	Chromium III(T) Chromium VI Copper Iron Iron(T)	50 TVS TVS 	TVS TVS WS 1000
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chron	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details.	Inorganic (n Ammonia Boron Chloride	ng/L) acute TVS	630 chronic TVS 0.75 250	Chromium III(T) Chromium VI Copper Iron Iron(T)	50 TVS TVS 	TVS TVS WS 1000 varies*
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chron	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (i Ammonia Boron Chloride Chlorine	ng/L) acute TVS 0.019	630 chronic TVS 0.75 250 0.011	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead	50 TVS TVS TVS	TVS TVS WS 1000 varies*
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chronic	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (n Ammonia Boron Chloride Chlorine Cyanide	mg/L) acute TVS 0.019 0.005	630 chronic TVS 0.75 250 0.011	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T)	50 TVS TVS TVS 50	TVS TVS WS 1000 varies* TVS
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chronic	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (n Ammonia Boron Chloride Chlorine Cyanide Nitrate	ng/L) acute TVS 0.019 0.005 10	630 chronic TVS 0.75 250 0.011	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T) Manganese	50 TVS TVS TVS 50 TVS	TVS TVS WS 1000 varies* TVS TVS/WS
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chronic	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (n Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	ng/L) acute TVS 0.019 0.005 10	630 chronic TVS 0.75 250 0.011 0.05	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T) Manganese Mercury(T)	50 TVS TVS TVS 50 TVS	TVS TVS WS 1000 varies* TVS TVS/WS 0.01
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chronic	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (i Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus	ng/L) acute TVS 0.019 0.005 10	630 chronic TVS 0.75 250 0.011 0.05 0.17	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T)	50 TVS TVS TVS 50 TVS	TVS TVS WS 1000 varies* TVS TVS/WS 0.01 150
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chronic	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (i Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	ng/L) acute TVS 0.019 0.005 10	630 chronic TVS 0.75 250 0.011 0.05 0.17 WS	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel	50 TVS TVS TVS 50 TVS TVS TVS	TVS TVS WS 1000 varies* TVS TVS/WS 0.01 150 TVS
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chronic	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (i Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	ng/L) acute TVS 0.019 0.005 10	630 chronic TVS 0.75 250 0.011 0.05 0.17 WS	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T)	50 TVS TVS TVS 50 TVS TVS TVS	TVS TVS WS 1000 varies* TVS TVS/WS 0.01 150 TVS 100
conditions* Expiration Date *Iron(T)(chronic and assessmer *Uranium(acute *Uranium(chron	nic) = current e of 12/31/2023 c) = See section 33.6(4) for standards nt locations for Sage Creek. e) = See 33.5(3) for details. nic) = See 33.5(3) for details.	Inorganic (i Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate	ng/L) acute TVS 0.019 0.005 10	630 chronic TVS 0.75 250 0.011 0.05 0.17 WS	Chromium III(T) Chromium VI Copper Iron Iron(T) Iron(T) Lead Lead(T) Manganese Mercury(T) Molybdenum(T) Nickel Nickel(T) Selenium	50 TVS TVS TVS 50 TVS TVS TVS TVS	TVS TVS WS 1000 varies* TVS TVS/WS 0.01 150 TVS 100 TVS

sc = sculpin

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

13f. Mainstem	of Trout Creek, including all tributa	ries and wetlands, from a point imm	ediately below the		with Fish Creek to the confl	uence with the Yampa	a River.	
	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340		
	Recreation E		acute	chronic	Arsenic(T)		0.02	
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS	
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0		
Other:		pH	6.5 - 9.0		Chromium III		TVS	
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)	50		
Arsenic(chroni	• •	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS	
•	e of 12/31/2024				Copper	TVS	TVS	
·		Inorgan	ic (mg/L)		Iron		WS	
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature =			acute	chronic	Iron(T)		1000	
		Ammonia	TVS	TVS	Lead	TVS	TVS	
	ee 33.6(4) for temperature standards.	Boron		0.75	Lead(T)	50		
		Chloride		250	Manganese	TVS	TVS/WS	
		Chlorine	0.019	0.011	Mercury(T)		0.01	
		Cyanide	0.005		Molybdenum(T)		150	
		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	
13g. All tributa	ries to Fish Creek from the conflue	nce with Cow Camp Creek (40.3987	773, -107.016467)	to the conflue	ence with Trout Creek.			
COUCYA13G	Classifications	Physical and	Biological		!	Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340		
	Recreation E		acute	chronic	Arsenic(T)		7.6	
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS	
Other:		рН	6.5 - 9.0		Chromium III	TVS	TVS	
Temporary Mo	odification(s):	chlorophyll a (mg/m²)		150	Chromium III(T)		100	
Selenium(chro conditions*	nic) = current	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS	
	e of 12/31/2023	Inorgan	ic (mg/L)		Copper	TVS	TVS	
			acute	chronic	Iron(T)		1000	
,	e) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS	
,	nic) = See 33.5(3) for details. elenium = Adopted 6/9/2014	Boron		0.75	Manganese	TVS	TVS	
rempiviou. Se	semum – Auopieu 0/3/2014	Chloride			Mercury(T)		0.01	
		Chlorine	0.019	0.011	Molybdenum(T)		150	
		Cyanide	0.005		Nickel	TVS	TVS	
		Nitrate	100		Selenium	TVS	TVS	
		Nitrite		0.05	Silver	TVS	TVS	
		Phosphorus		0.17	Uranium	varies*	varies*	
		Sulfate			Zinc	TVS	TVS	
		Sulfide		0.002				

sc = sculpin

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

40L Main - 4	f D Ol. (alternation of the control of the co					
	Classifications	iding all tributaries and wetlands, fro		ence with 16	1	Metals (ug/L)	iver.
Designation		r ilysical allu	DM	MWAT		acute	chronic
UP	Ag Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	CITOTIC
OI .	Recreation E	Temperature C	acute	chronic	Arsenic(T)	340	7.6
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0		Chromium III	TVS	TVS
Other:		chlorophyll a (mg/m²)		150			100
*Uranium(acut	te) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium III(T) Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		. ,		120			
		Inorgan	ic (mg/L)		Copper	TVS	TVS
			acute	chronic	Iron(T)		1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Manganese	TVS	TVS
		Chloride			Mercury(T)		0.01
		Chlorine	0.019	0.011	Molybdenum(T)		150
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002			
13i. Mainstem	of Grassy Creek, including all tribu	staries and wetlands from the source					
		italies and wellands, nom the source	e to immediately ab	ove the conf	luence with Scotchmans G	ulch.	
COUCYA13I	Classifications	Physical and		ove the conf		ulch. Metals (ug/L)	
Designation		1		ove the conf			chronic
Designation	Classifications	1	Biological			Metals (ug/L)	chronic
	Classifications Agriculture	Physical and	Biological DM	MWAT	1	Metals (ug/L) acute	
Designation UP	Classifications Agriculture Aq Life Warm 2	Physical and	Biological DM WS-II	MWAT WS-II	Arsenic	Metals (ug/L) acute 340	
Designation UP Qualifiers:	Classifications Agriculture Aq Life Warm 2	Physical and Temperature °C	Biological DM WS-II acute	MWAT WS-II chronic	Arsenic Arsenic(T)	Metals (ug/L) acute 340	100
Designation UP Qualifiers: Other:	Classifications Agriculture Aq Life Warm 2 Recreation N	Physical and Temperature °C D.O. (mg/L)	Biological DM WS-II acute	MWAT WS-II chronic 5.0	Arsenic Arsenic(T) Cadmium	Metals (ug/L) acute 340 TVS	100 TVS
Designation UP Qualifiers: Other: Temporary Modelenium(chroden)	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s):	Physical and Temperature °C D.O. (mg/L) pH	Biological DM WS-II acute 6.5 - 9.0	MWAT WS-II chronic 5.0	Arsenic Arsenic(T) Cadmium Chromium III	Metals (ug/L) acute 340 TVS TVS	100 TVS TVS
Designation UP Qualifiers: Other: Temporary Modelinium(chroconditions*	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM WS-II acute 6.5 - 9.0	MWAT WS-II chronic 5.0	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T)	Metals (ug/L) acute 340 TVS TVS	100 TVS TVS 100
Designation UP Qualifiers: Other: Temporary Models Selenium (chroconditions*	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s):	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM WS-II acute 6.5 - 9.0	MWAT WS-II chronic 5.0	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI	Metals (ug/L) acute 340 TVS TVS TVS	100 TVS TVS 100 TVS
Designation UP Qualifiers: Other: Temporary M. Selenium(chroconditions* Expiration Dat	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL)	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L)	MWAT WS-II chronic 5.0 630	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper	Metals (ug/L) acute 340 TVS TVS TVS TVS TVS	100 TVS TVS 100 TVS
Qualifiers: Other: Temporary Modeling Selenium (chroconditions* Expiration Dat	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute	MWAT WS-II chronic 5.0 630 chronic	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T)	Metals (ug/L) acute 340 TVS TVS TVS TVS TVS TVS	100 TVS TVS 100 TVS 100 TVS TVS
Designation UP Qualifiers: Other: Temporary Modeling Selenium (chroconditions* Expiration Dat *Uranium (acut *Uranium (chroconditions)*	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT WS-II chronic 5.0 630 chronic	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead	Metals (ug/L) acute 340 TVS TVS TVS TVS TVS TVS	100 TVS TVS 100 TVS TVS 100 TVS TVS
Designation UP Qualifiers: Other: Temporary Modes Selenium (chroconditions* Expiration Dat *Uranium (acut	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT WS-II chronic 5.0 630 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese	Metals (ug/L) acute 340 TVS TVS TVS TVS TVS TVS	100 TVS TVS 100 TVS TVS 100 TVS TVS 1000 TVS
Designation UP Qualifiers: Other: Temporary Modeling Selenium (chroconditions* Expiration Dat *Uranium (acut *Uranium (chroconditions)*	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS	MWAT WS-II chronic 5.0 630 chronic TVS 0.75	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T)	Metals (ug/L) acute 340 TVS	100 TVS TVS 100 TVS TVS 1000 TVS TVS 1000 TVS TVS 0.01
Designation UP Qualifiers: Other: Temporary Modes Selenium (chroconditions* Expiration Dat *Uranium (acut	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005	MWAT WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T)	Metals (ug/L) acute 340 TVS	100 TVS TVS 100 TVS TVS 1000 TVS TVS 1000 TVS TVS 0.01
Designation UP Qualifiers: Other: Temporary Modeling Selenium (chroconditions* Expiration Dat *Uranium (acut *Uranium (chroconditions)*	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 100	MWAT WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel	Metals (ug/L) acute 340 TVS	100 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS
Designation UP Qualifiers: Other: Temporary Modes Selenium (chroconditions* Expiration Dat *Uranium (acut	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 100	MWAT WS-II chronic 5.0 630 chronic TVS 0.75 0.011 0.05	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel Selenium Silver	Metals (ug/L) acute 340 TVS	100 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS TVS TVS
Designation UP Qualifiers: Other: Temporary Modeling Selenium (chroconditions* Expiration Dat *Uranium (acut *Uranium (chroconditions)*	Classifications Agriculture Aq Life Warm 2 Recreation N odification(s): onic) = current e of 12/31/2023 te) = See 33.5(3) for details. onic) = See 33.5(3) for details.	Physical and Temperature °C D.O. (mg/L) pH chlorophyll a (mg/m²) E. coli (per 100 mL) Inorgan Ammonia Boron Chloride Chlorine Cyanide Nitrate	Biological DM WS-II acute 6.5 - 9.0 ic (mg/L) acute TVS 0.019 0.005 100	MWAT WS-II chronic 5.0 630 chronic TVS 0.75 0.011	Arsenic Arsenic(T) Cadmium Chromium III Chromium III(T) Chromium VI Copper Iron(T) Lead Manganese Mercury(T) Molybdenum(T) Nickel Selenium	Metals (ug/L) acute 340 TVS	100 TVS TVS 100 TVS TVS 1000 TVS TVS 0.01 150 TVS TVS

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REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Yampa River Basin

13j. Mainstem	of Grassy Creek (near Hayden), inc	uding all tributaries and wetlands, fr	rom above the con	ıfluence with	Scotchmans Gulch to the	e confluence with the Y	ampa River.
COUCYA13J	Classifications	Physical and B	iological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	
	Recreation N		acute	chronic	Arsenic(T)		100
Qualifiers:		D.O. (mg/L)		5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0		Chromium III	TVS	TVS
Temporary M	odification(s):	chlorophyll a (mg/m²)			Chromium III(T)		100
Selenium(chro	` '	E. coli (per 100 mL)		630	Chromium VI	TVS	TVS
conditions*	a of 40/04/0000	Inorganic (mg/L)			Copper	TVS	TVS
Expiration Dat	e of 12/31/2023		acute	chronic	Iron(T)		1000
*Uranium(acut	te) = See 33.5(3) for details.	Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chro	onic) = See 33.5(3) for details.	Boron		0.75	Manganese	TVS	TVS
*TempMod: Se	elenium = Adopted 12/11/2017	Chloride			Mercury(T)		0.01
		Chlorine	0.019	0.011	Molybdenum(T)		150
		Cyanide	0.005		Nickel	TVS	TVS
		Nitrate	100		Selenium	TVS	TVS
		Nitrite		0.05	Silver	TVS	TVS
		Phosphorus		0.17	Uranium	varies*	varies*
		Sulfate			Zinc	TVS	TVS
		Sulfide		0.002	1		

^{14.} Mainstem of Elkhead Creek, including all tributaries and wetlands, from the boundary of the National Forest lands, to a point immediately below the confluence with Calf Creek. Dry Fork Elkhead Creek, including all tributaries and wetlands, from the source to a point immediately below 80A Road (40.612676, -107.228533), which are not on National Forest lands.

COUCYA14	Classifications	Physical and	Biological		r	Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	
	Recreation E		acute	chronic	Arsenic(T)		0.02
	Water Supply	D.O. (mg/L)		6.0	Cadmium	TVS	TVS
Qualifiers:		D.O. (spawning)		7.0	Cadmium(T)	5.0	
Other:		pH	6.5 - 9.0		Chromium III		TVS
		chlorophyll a (mg/m²)		150	Chromium III(T)	50	
,	ite) = See 33.5(3) for details.	E. coli (per 100 mL)		126	Chromium VI	TVS	TVS
*Uranium(chr	onic) = See 33.5(3) for details.				Copper	TVS	TVS
		Inorgan	ic (mg/L)		Iron		WS
			acute	chronic	Iron(T)		1000
		Ammonia	TVS	TVS	Lead	TVS	TVS
		Boron		0.75	Lead(T)	50	
		Chloride		250	Manganese	TVS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)		0.01
		Cyanide	0.005		Molybdenum(T)		150
		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

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.