

**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 12/31/2019

Abbreviations and Acroynms

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 #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

1. Mainstem of the Colorado River, including all tributaries and wetlands, within or flowing into Rocky Mountain National Park.							
COUCUC01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		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/TVS(sc)
2. Mainstem of the Colorado River, including all tributaries and wetlands, within or flowing into Arapahoe National Recreation Area, except for the specific listing in Segment 5.							
COUCUC02	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	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		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/TVS(sc)

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

3. Mainstem of the Colorado River from the outlet of Lake Granby to below the confluence with the Roaring Fork River.							
COUCUC03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	varies*	varies*	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)
4. All tributaries to the Colorado River, including all wetlands, from the outlet of Lake Granby to above the confluence with the Roaring Fork River, which are on National Forest lands, except for the specific listings in Segments 2, 8, 9 and 10a.							
COUCUC04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

5. Mainstem of Willow Creek from the outlet of Willow Creek Reservoir to the confluence with the Colorado River.							
COUCUC05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II CS-II	340	---		
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
pH		6.5 - 9.0	---	---	Chromium III	---	TVS
chlorophyll a (mg/m ²)		---	150*	---	Chromium III(T)	50	---
E. Coli (per 100 mL)		---	126	---	Chromium VI	TVS	TVS
Inorganic (mg/L)			---	Copper	TVS	TVS	
acute		chronic	---	---	Iron	---	WS
Ammonia		TVS	TVS	---	Iron(T)	---	1000
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/TVS(sc)	

6a. All tributaries to the Colorado River, including all wetlands, from the border of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately above the confluence with the Blue River and Muddy Creek, which are not on National Forest lands, except for the specific listings in Segments 5, 6b, 8 and 10a-c.

6a. All tributaries to the Colorado River, including all wetlands, from the border of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately above the confluence with the Blue River and Muddy Creek, which are not on National Forest lands, except for the specific listings in Segments 5, 6b, 8 and 10a-c.							
COUCUC06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation P Water Supply	Temperature °C	CS-I CS-I	340	---		
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
pH		6.5 - 9.0	---	---	Chromium III	---	TVS
chlorophyll a (mg/m ²)		---	150*	---	Chromium III(T)	50	---
E. Coli (per 100 mL)		---	205	---	Chromium VI	TVS	TVS
Inorganic (mg/L)			---	Copper	TVS	TVS	
acute		chronic	---	---	Iron	---	WS
Ammonia		TVS	TVS	---	Iron(T)	---	1000
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/TVS(sc)	

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

6b. Mainstem of un-named tributary to Willow Creek from the headwaters to the confluence with Willow Creek (40.131422, -105.920895).							
COUCUC06B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 2 Recreation N	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	100	
Other:	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS	
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).	D.O. (spawning)	---	7.0	Chromium III	TVS	TVS	
*Uranium(acute) = See 33.5(3) for details.	pH	6.5 - 9.0	---	Chromium III(T)	---	100	
*Uranium(chronic) = See 33.5(3) for details.	chlorophyll a (mg/m ²)	---	---	Chromium VI	TVS	TVS	
	E. Coli (per 100 mL)	---	630	Copper	TVS	TVS	
				Iron(T)	---	1000	
		Inorganic (mg/L)		Lead	TVS	TVS	
		acute	chronic	Manganese	TVS	TVS	
	Ammonia	TVS	TVS	Manganese(T)	---	200	
	Boron	---	0.75	Mercury(T)	---	0.01	
	Chloride	---	---	Molybdenum(T)	---	150	
	Chlorine	0.019	0.011	Nickel	TVS	TVS	
	Cyanide	0.005	---	Selenium	TVS	TVS	
	Nitrate	100	---	Silver	TVS	TVS(tr)	
	Nitrite	0.05	---	Uranium	varies*	varies*	
	Phosphorus	---	0.11*	Zinc	TVS	TVS	
	Sulfate	---	---				
	Sulfide	---	0.002				
7a. All tributaries to the Colorado River, including all wetlands, from a point immediately above the confluence with the Blue River and Muddy Creek to a point immediately below the confluence with the Roaring Fork River, which are not on National Forest lands, except for specific listings in Segment 7b, 7c, 7d, 7e and in the Blue River, Eagle River, and Roaring Fork River basins.							
COUCUC07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	varies*	varies*	Arsenic	340	---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid	pH	6.5 - 9.0	---	Chromium III	---	TVS	
Expiration Date of 12/31/2021	chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---	
*Uranium(acute) = See 33.5(3) for details.	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
*Uranium(chronic) = See 33.5(3) for details.				Copper	TVS	TVS	
*Temperature = See 33.6(4) for temperature standards.		Inorganic (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	

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

7b. All tributaries to Muddy Creek, including all wetlands, from the inlet of Wolford Mountain Reservoir to the confluence with the Colorado River. Mainstems of Rock Creek, Deep Creek, Sheephorn Creek, Sweetwater Creek, Piney River and Blacktail Creek, including all tributaries and wetlands, from their sources to their confluences with the Colorado River, which are not on National Forest lands.

COUCUC07B	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		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		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/TVS(sc)

7c. Mainstem of Muddy Creek from the source to a point immediately below the confluence with Eastern Gulch, except those waters on National Forest lands. All tributaries to Muddy Creek, including all wetlands, from the source to the inlet of Wolford Mountain Reservoir, except those waters on National Forest lands. The mainstems of Derby Creek, Cabin Creek, and Red Dirt Creeks (all tributary to the Colorado River), including all tributaries and wetlands, from their sources to their confluences with the Colorado River, except those waters on National Forest lands.

COUCUC07C	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 N		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (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/TVS(sc)

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper Colorado River Basin

7d. Mainstem of Muddy Creek from the outlet of Wolford Mountain Reservoir to above the Highway 40 Bridge in Kremmling (40.060574, -106.398739).							
COUCUC07D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)
7e. Mainstem of Muddy Creek from above the Highway 40 Bridge in Kremmling (40.060574, -106.398739) to the confluence with the Colorado River.							
COUCUC07E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E	Temperature °C	CS-II	CS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	7.6	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150*	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic	Lead	TVS	TVS	
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	250	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	0.05	---	Uranium	varies*	varies*
		Phosphorus	---	0.11*	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

8. Mainstem of the Williams Fork River, including all tributaries and wetlands, from the source to the confluence with the Colorado River, except for those tributaries in Segment 9.							
COUCUC08	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		acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid					Copper	TVS	TVS
Expiration Date of 12/31/2021					Iron	---	WS*
*Iron(chronic) = Point of compliance at Aspen Canyon Ranch well. *Manganese(chronic) = Point of compliance at Aspen Canyon Ranch well. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		Inorganic (mg/L)			Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Lead(T)	50	---
		Boron	---	0.75	Manganese	TVS	TVS/WS*
		Chloride	---	250	Mercury(T)	---	0.01
		Chlorine	0.019	0.011	Molybdenum(T)	---	190
		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	0.05	---	Selenium	TVS	TVS
		Phosphorus	---	0.11	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS/TVS(sc)

9. All tributaries to the Colorado and Fraser Rivers, including all wetlands, within the Never Summer, Indian Peaks, Byers Peak, Vasquez Peak, Eagles Nest and Flat Tops Wilderness Areas.							
COUCUC09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	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(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		Inorganic (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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

10c. Mainstem of the Fraser River from a point immediately below the Hammond No 1 Ditch (39.952113, -105.814481) to the confluence with the Colorado River.							
COUCUC10C	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 E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.					Inorganic (mg/L)		
*Uranium(chronic) = See 33.5(3) for details.					acute	chronic	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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	---	---	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

11. All lakes and reservoirs tributary to the Colorado River within Rocky Mountain National Park, Never Summer, Indian Peaks, Byers Peak, Vasquez Peak, Eagles Nest and Flat Tops Wilderness Areas.							
COUCUC11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.					Inorganic (mg/L)		
*Temperature =					acute	chronic	
DM and MWAT=CL,CLL from 1/1-3/31		Ammonia	TVS	TVS	Iron(T)	---	1000
Rim Lake		Boron	---	0.75	Lead	TVS	TVS
DM=CL and MWAT=16.6 from 4/1-12/31		Chloride	---	250	Lead(T)	50	---
All others		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
DM and MWAT=CL,CLL from 4/1-12/31		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	0.05	---	Nickel	TVS	TVS
		Phosphorus	---	0.025*	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Upper Colorado River Basin

12. Lakes and reservoirs within Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby.								
COUCUC12	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	varies*	varies* ^B	340	---	---		
	Recreation E	acute	chronic	---	---	0.02		
	Water Supply	---	narrative*	TVS(tr)	TVS	TVS		
	DUWS*	---	6.0	5.0	---	---		
Qualifiers:		---	7.0	---	---	TVS		
Goal Qualifier Grand Lake Clarity		---	7.0	50	---	---		
Other:		6.5 - 9.0	---	50	---	---		
<p>*Goal Qualifier Grand Lake: 7/1-9/11, Clarity = 3.8 meter average and 2.5 meter minimum Secchi disk depth.</p> <p>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Classification: DUWS Applies only to Grand Lake</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p> <p>*clarity(chronic) = For Grand Lake, the highest level of clarity attainable, consistent with the exercise of established water rights, the protection of aquatic life, and protection of water quality throughout the Three Lakes system.</p> <p>*Temperature = See 33.6(4) for temperature standards.</p>		chlorophyll a (ug/L)	---	8*	TVS	TVS		
		E. Coli (per 100 mL)	---	126	TVS	TVS	TVS	
		Inorganic (mg/L)			---	WS	---	---
		acute	chronic	Iron(T)	---	1000	---	---
		Ammonia	TVS	TVS	Lead	TVS	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---	---
		Chloride	---	250	Manganese	TVS	TVS/WS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150	150
		Nitrate	10	---	Nickel	TVS	TVS	TVS
		Nitrite	0.05	---	Nickel(T)	---	100	100
		Phosphorus	---	0.025*	Selenium	TVS	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*	varies*
					Zinc	TVS	TVS	TVS

13. All lakes and reservoirs tributary to the Colorado River from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately above the confluence with the Roaring Fork River, except for specific listings in Upper Colorado Segments 11 and 12 and the Blue River and Eagle River subbasins.

COUCUC13	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	varies*	varies* ^B	340	---	---		
	Recreation E	acute	chronic	---	---	0.02		
	Water Supply	---	6.0	TVS(tr)	TVS	TVS		
	DUWS*	---	6.0	5.0	---	---		
Qualifiers:		---	7.0	---	---	TVS		
Other:		6.5 - 9.0	---	50	---	---		
<p>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Classification: *DUWS Applies only to Ute Creek Res</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 33.5(3) for details.</p> <p>*Uranium(chronic) = See 33.5(3) for details.</p> <p>*Temperature = See 33.6(4) for temperature standards.</p>		chlorophyll a (ug/L)	---	8*	TVS	TVS		
		E. Coli (per 100 mL)	---	126	TVS	TVS	TVS	
		Inorganic (mg/L)			---	WS	---	---
		acute	chronic	Iron(T)	---	1000	---	---
		Ammonia	TVS	TVS	Lead	TVS	TVS	TVS
		Boron	---	0.75	Lead(T)	50	---	---
		Chloride	---	250	Manganese	TVS	TVS/WS	TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---	0.01	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	150	150
		Nitrate	10	---	Nickel	TVS	TVS	TVS
		Nitrite	0.05	---	Nickel(T)	---	100	100
		Phosphorus	---	0.025*	Selenium	TVS	TVS	TVS
		Sulfate	---	WS	Silver	TVS	TVS(tr)	TVS(tr)
		Sulfide	---	0.002	Uranium	varies*	varies*	varies*
					Zinc	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 33.6 for further details on applied standards.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

1. Mainstem of the Blue River from the source to above the confluence with French Gulch.						
COUCBL01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/2021		Inorganic (mg/L)			Copper	TVS TVS
*Uranium(acute) = See 33.5(3) for details.		acute	chronic	Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---
		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)	---
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	0.11	Nickel	TVS TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS/TVS(sc)
2a. Mainstem of the Blue River from above the confluence with French Gulch to a point one half mile below Coyne Valley Road (39.523189, -106.050805).						
COUCBL02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic
UP	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	4 4
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/2021		Inorganic (mg/L)			Copper	TVS TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Lead	TVS TVS
*Uranium(chronic) = See 33.5(3) for details.		Chloride	---	250	Lead(T)	50 ---
*Zinc(acute) = e^(1.25 (ln(hard)+0.799))		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
*Zinc(chronic) = e^(1.25 (ln(hard)+0.799))		Cyanide	0.005	---	Mercury(T)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	0.05	---	Nickel	TVS TVS
		Phosphorus	---	0.11*	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	SSE* SSE*

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.

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

2b. Mainstem of the Blue River from a point one half mile below Coyne Valley Road (39.523189, -106.050805) to above the confluence with the Swan River.							
COUCBL02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	SSE*	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021		Inorganic (mg/L)			Copper	TVS	TVS
*Cadmium(acute) = 1/2e^(1.0166(ln(hard)-3.132))		acute	chronic	Iron	---	WS	
*Cadmium(chronic) = 1/2e^(1.0166(ln(hard)-3.132))		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Chloride	---	250	Lead(T)	50	---
*Zinc(acute) = e^(0.9805(ln(hard)+1.402))		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Zinc(chronic) = e^(0.9805(ln(hard)+1.402))		Cyanide	0.005	---	Mercury(T)	---	0.01
		Nitrate	10	---	Molybdenum(T)	---	150
		Nitrite	0.05	---	Nickel	TVS	TVS
		Phosphorus	---	---	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	SSE*	SSE*
2c. Mainstem of the Blue River from above the confluence with the Swan River to Dillon Reservoir.							
COUCBL02C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2021					Chromium VI	TVS	TVS
*Cadmium(acute) = e^(0.9789*ln(hardness)-3.866)*(1.136672-(ln(hardness)*0.041838))		Inorganic (mg/L)			Copper	TVS	TVS
*Cadmium(chronic) = e^(0.7977*ln(hardness)-3.909)*(1.101672-(ln(hardness)*0.041838))		acute	chronic	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	---	---	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

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.

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

4b. North Fork of the Swan River, including all tributaries and wetlands, from the source to the confluence with the Swan River.

COUCBL04B	Classifications	Physical and Biological			Metals (ug/L)		
		DM	MWAT	acute	chronic		
Designation	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
OW	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
Qualifiers:		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Other:		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)

5. Deleted.

COUCBL05	Classifications	Physical and Biological			Metals (ug/L)		
		DM	MWAT	acute	chronic		
Designation							
			acute	chronic			
Qualifiers:		Inorganic (mg/L)					
			acute	chronic			

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.

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

6a. Mainstem of the Snake River, including all tributaries and wetlands, from the source to Dillon Reservoir, except for specific listings in Segments 6b, 7, 8 and 9.						
COUCBL06A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	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	--- SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE* ---
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021		chlorophyll a (mg/m ²)	---	150*	Chromium III	--- TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Cadmium(acute) = e^(0.9789*ln(hardness)-3.866)*(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e^(0.7977*ln(hardness)-3.909)*(1.101672-(ln(hardness)*0.041838)) *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
		Inorganic (mg/L)			Chromium VI	TVS TVS
		acute	chronic	Copper	TVS TVS	
		Ammonia	TVS	TVS	Iron	--- WS
		Boron	---	0.75	Iron(T)	--- 1000
		Chloride	---	250	Lead	TVS TVS
		Chlorine	0.019	0.011	Lead(T)	50 ---
		Cyanide	0.005	---	Manganese	TVS TVS/WS
		Nitrate	10	---	Mercury(T)	--- 0.01
		Nitrite	0.05	---	Molybdenum(T)	--- 150
		Phosphorus	---	0.11*	Nickel	TVS TVS
		Sulfate	---	WS	Nickel(T)	--- 100
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS

6b. Mainstem of Camp Creek, including all tributaries and wetlands, from the source to the confluence with the Snake River.						
COUCBL06B	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	acute	chronic	Arsenic(T)	--- 0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Zinc(acute) = 0.978*e^0.8537(ln Hardness)+1.5227 *Zinc(chronic) = 0.986*e^0.8537(ln Hardness)+1.3519		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron	--- WS	
		Ammonia	TVS	TVS	Iron(T)	--- 1000
		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	--- SSE*
					Zinc	SSE* ---

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

7. Mainstem of Peru Creek, including all tributaries and wetlands, from the source to the confluence with the Snake River, except for specific listings in Segment 8.						
COUCBL07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Aq Life Cold 1	DM	MWAT	acute	chronic	
UP	Recreation E	CS-I	CS-I	340	---	
Qualifiers:		acute	chronic			
Other:						
*Cadmium(acute) = $e^{(0.9789 \ln(\text{hardness}) - 3.866)} \cdot (1.136672 - \ln(\text{hardness})) \cdot 0.041838$ *Cadmium(chronic) = $e^{(0.7977 \ln(\text{hardness}) - 3.909)} \cdot (1.101672 - \ln(\text{hardness})) \cdot 0.041838$ *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (mg/L) --- 6.0 D.O. (spawning) --- 7.0 pH 6.5 - 9.0 --- chlorophyll a (mg/m ²) --- 150 E. Coli (per 100 mL) --- 126	Arsenic(T) --- 7.6 Cadmium --- SSE* Cadmium --- SSE* Chromium III TVS TVS Chromium VI TVS TVS Copper TVS TVS Iron(T) --- 1000 Lead TVS TVS Manganese TVS TVS Mercury(T) --- 0.01 Molybdenum(T) --- --- Nickel TVS TVS Selenium TVS TVS Silver TVS TVS(tr) Uranium varies* varies* Zinc TVS TVS				
		Inorganic (mg/L)				
		acute	chronic			
		TVS	TVS			
		---	---			
		---	---			
		0.019	0.011			
		0.005	---			
		---	---			
		0.05	---			
		---	0.11			
		---	---			
		---	0.002			

8. Mainstem of Keystone Gulch, including all tributaries and wetlands, from the source to the confluence with the Snake River. Mainstem of Chihuahua Creek, including all tributaries and wetlands, from the source to the confluence with Peru Creek. Mainstem of the North Fork Snake River, including all tributaries and wetlands, from the source to the confluence with the Snake River. Mainstem of Jones Gulch, including all tributaries and wetlands, from the source to the confluence with the Snake River.						
COUCBL08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	CS-I	CS-I	340	---	
	Recreation E	acute	chronic			
	Water Supply					
Qualifiers:						
Other:						
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (mg/L) --- 6.0 D.O. (spawning) --- 7.0 pH 6.5 - 9.0 --- chlorophyll a (mg/m ²) --- 150* E. Coli (per 100 mL) --- 126	Arsenic(T) --- 0.02 Cadmium TVS(tr) TVS Cadmium(T) 5.0 --- Chromium III --- TVS Chromium III(T) 50 --- Chromium VI TVS TVS Copper TVS TVS Iron --- WS Iron(T) --- 1000 Lead TVS TVS Lead(T) 50 --- Manganese TVS TVS/WS Mercury(T) --- 0.01 Molybdenum(T) --- 150 Nickel TVS TVS Nickel(T) --- 100 Selenium TVS TVS Silver TVS TVS(tr) Uranium varies* varies* Zinc TVS TVS/TVS(sc)				
		Inorganic (mg/L)				
		acute	chronic			
		TVS	TVS			
		---	0.75			
		---	250			
		0.019	0.011			
		0.005	---			
		10	---			
		0.05	---			
		---	0.11*			
		---	WS			
		---	0.002			

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.

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

9. Mainstem of Deer Creek, including all tributaries and wetlands, from the source to the confluence with the Snake River.									
COUCBL09	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute chronic					
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---		
		acute	chronic	Arsenic(T)			---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium			TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)			5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III			---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)			50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI			TVS	TVS
		Inorganic (mg/L)			Copper			TVS	TVS
		acute	chronic	Iron			---	WS	
		Ammonia	TVS	TVS	Iron(T)			---	1000
		Boron	---	0.75	Lead			TVS	TVS
		Chloride	---	250	Lead(T)			50	---
		Chlorine	0.019	0.011	Manganese			TVS	TVSWS
		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
10. Mainstem of French Gulch, including all tributaries and wetlands, from the source to a point 1.5 miles below Lincoln (39.484661, -105.995074).									
COUCBL10	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute chronic					
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---		
		acute	chronic	Arsenic(T)			---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium			TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)			5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III			---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)			50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI			TVS	TVS
		Inorganic (mg/L)			Copper			TVS	TVS
		acute	chronic	Iron			---	WS	
		Ammonia	TVS	TVS	Iron(T)			---	1000
		Boron	---	0.75	Lead			TVS	TVS
		Chloride	---	250	Lead(T)			50	---
		Chlorine	0.019	0.011	Manganese			TVS	TVSWS
		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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

11. Mainstem of French Gulch from a point 1.5 miles below Lincoln (39.484661, -105.995074) to the confluence with the Blue River.							
COUCBL11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
UP	Aq Life Cold 1 Recreation P	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	7.6
Other:		D.O. (mg/L)	---	6.0	Cadmium	EQ*	EQ*
*Cadmium(acute) = existing quality		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
*Cadmium(chronic) = existing quality		pH	6.5 - 9.0	---	Chromium III(T)	---	100
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	205	Copper	TVS	TVS
*Zinc(acute) = existing quality		Inorganic (mg/L)			Iron(T)	---	1000
*Zinc(chronic) = existing quality			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	0.05	---	Uranium	varies*	varies*
		Phosphorus	---	0.11	Zinc	EQ*	EQ*
		Sulfate	---	---			
		Sulfide	---	0.002			

12. Mainstem of Illinois Gulch and Fredonia Gulch from their sources to their confluences with the Blue River.							
COUCBL12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 2 Recreation P Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02-10 ^A
Other:		D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
*Cadmium(acute) = e ^{^(0.9789*ln(hardness)-3.866)} *(1.136672-(ln(hardness)*0.041838))		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
*Cadmium(chronic) = e ^{^(0.7977*ln(hardness)-3.909)} *(1.101672-(ln(hardness)*0.041838))		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III	---	TVS
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	205	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
		Ammonia	TVS	TVS	Iron	---	WS
		Boron	---	0.75	Iron(T)	---	1000
		Chloride	---	250	Lead	TVS	TVS
		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVSWS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	0.05	---	Molybdenum(T)	---	150
		Phosphorus	---	0.11	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					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.

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 Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation P	CS-I	CS-I				
Qualifiers:		acute	chronic				
		Temperature °C			Arsenic	340	---
					Arsenic(T)	---	7.6
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150*	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	205	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
		acute	chronic		Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	---
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	0.05	---	Uranium	varies*	varies*
		Phosphorus	---	0.11*	Zinc	TVS	TVS/TVS(sc)
		Sulfate	---	---			
		Sulfide	---	0.002			

Other:
 *Any water quality based effluent limit shall not cause or contribute to exceedances of water quality standards adopted to protect downstream uses.
 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).
 *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).
 *Uranium(acute) = See 33.5(3) for details.
 *Uranium(chronic) = See 33.5(3) for details.

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 Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I				
Qualifiers:		acute	chronic				
		Temperature °C			Arsenic	340	---
					Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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)	---	210
		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/TVS(sc)

Other:
 Temporary Modification(s):
 Arsenic(chronic) = hybrid
 Expiration Date of 12/31/2021
 Molybdenum(chronic) = current conditions
 Expiration Date of 6/30/2020
 *chlorophyll a (mg/m²)(chronic) = applies only above the facilities listed at 33.5(4).
 *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).
 *Uranium(acute) = See 33.5(3) for details.
 *Uranium(chronic) = See 33.5(3) for details.

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

17. Mainstem of the Blue River from the outlet of Dillon Reservoir to the confluence with the Colorado River.							
COUCBL17	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		acute	chronic	Arsenic(T)	---	0.02
Qualifiers: Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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	---	---	Nickel(T)	---	100
	Sulfate	---	WS	Selenium	TVS	TVS	
	Sulfide	---	0.002	Silver	TVS	TVS(tr)	
				Uranium	varies*	varies*	
				Zinc	TVS	TVS/TVS(sc)	

18. All tributaries to the Blue River, including all wetlands, from the outlet of Dillon Reservoir to the outlet of Green Mountain Reservoir, except for the specific listings in Segment 16.							
COUCBL18	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		acute	chronic	Arsenic(T)	---	0.02
Qualifiers: Other: Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)	

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.

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

19. All tributaries to the Blue River, including all wetlands, from the outlet of Green Mountain Reservoir to the confluence with the Colorado River, except for specific listings in Segment 20.														
COUCBL19	Classifications	Physical and Biological			Metals (ug/L)									
Designation	Agriculture Aq Life Cold 1 Recreation N Water Supply	DM	MWAT	acute chronic										
Reviewable		acute	chronic	Temperature °C	CS-I	CS-I	Arsenic	340	---					
		---	6.0	Arsenic(T)	---	0.02	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS		
Qualifiers:			---	7.0	Cadmium(T)	5.0	---	D.O. (spawning)	---	7.0	Chromium III	---	TVS	
Other:			6.5 - 9.0	---	Chromium III(T)	50	---	pH	6.5 - 9.0	---	Chromium VI	TVS	TVS	
				---	---	Copper	TVS	chlorophyll a (mg/m ²)	---	---	Iron	---	WS	
				---	630	Iron(T)	---	1000	E. Coli (per 100 mL)	---	630	Lead	TVS	TVS
				Inorganic (mg/L)			Lead(T)	50	---					
				acute	chronic	Manganese	TVS	TVS/WS						
				TVS	TVS	Mercury(T)	---	0.01						
				---	0.75	Molybdenum(T)	---	150						
				---	250	Nickel	TVS	TVS						
				0.019	0.011	Nickel(T)	---	100						
				0.005	---	Selenium	TVS	TVS						
				10	---	Silver	TVS	TVS(tr)						
				0.05	---	Uranium	varies*	varies*						
				---	0.11	Zinc	TVS	TVS						
				---	WS									
				---	0.002									

20. Mainstems of Elliot Creek and Spruce Creek, including all tributaries and wetlands, from their sources to the confluence with the Blue River.														
COUCBL20	Classifications	Physical and Biological			Metals (ug/L)									
Designation	Agriculture Aq Life Cold 1 Recreation N Water Supply	DM	MWAT	acute chronic										
Reviewable		acute	chronic	Temperature °C	CS-I	CS-I	Arsenic	340	---					
		---	6.0	Arsenic(T)	---	0.02	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS		
Qualifiers:			---	7.0	Cadmium(T)	5.0	---	D.O. (spawning)	---	7.0	Chromium III	---	TVS	
Other:			6.5 - 9.0	---	Chromium III(T)	50	---	pH	6.5 - 9.0	---	Chromium VI	TVS	TVS	
				---	---	Copper	TVS	TVS	chlorophyll a (mg/m ²)	---	---	Iron	---	WS
				---	630	Iron(T)	---	1000	E. Coli (per 100 mL)	---	630	Lead	TVS	TVS
				Inorganic (mg/L)			Lead(T)	50	---					
				acute	chronic	Manganese	TVS	TVS/WS						
				TVS	TVS	Mercury(T)	---	0.01						
				---	0.75	Molybdenum(T)	---	150						
				---	250	Nickel	TVS	TVS						
				0.019	0.011	Nickel(T)	---	100						
				0.005	---	Selenium	TVS	TVS						
				10	---	Silver	TVS	TVS(tr)						
				0.05	---	Uranium	varies*	varies*						
				---	0.11	Zinc	TVS	TVS						
				---	WS									
				---	0.002									

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Blue River Basin

21. All lakes and reservoirs tributary to the Blue River within the Eagles Nest and Ptarmigan Peak Wilderness Areas.						
COUCBL21	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
OW	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340 ---
	Recreation E	acute	chronic		Arsenic(T)	--- 0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Other:		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50 ---
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Inorganic (mg/L)			Copper	TVS TVS
*Uranium(acute) = See 33.5(3) for details.			acute	chronic	Iron	--- WS
*Uranium(chronic) = See 33.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	--- 1000
		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	---	0.025*	Nickel(T)	--- 100
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS

22. Dillon Reservoir and all lakes and reservoirs tributary to the Blue River above Dillon Reservoir, except for specific listings in Segment 21.						
COUCBL22	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340 ---
	Recreation E	acute	chronic		Arsenic(T)	--- 0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
	DUWS*	D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Other:		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50 ---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Copper	TVS TVS
Expiration Date of 12/31/2021			acute	chronic	Iron	--- WS
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Iron(T)	--- 1000
*Classification: DUWS Applies only to Goose Pasture Tarn		Boron	---	0.75	Lead	TVS TVS
*Phosphorus(chronic) = 0.0074 mg/l for Dillon Reservoir in the top 15 meters of the water column for the months of July, August, September & October. Additional total phosphorus or Chla standards adopted for this segment do not apply to Dillon Reservoir.		Chloride	---	250	Lead(T)	50 ---
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		Chlorine	0.019	0.011	Manganese	TVS TVS/WS
*Uranium(acute) = See 33.5(3) for details.		Cyanide	0.005	---	Mercury(T)	--- 0.01
*Uranium(chronic) = See 33.5(3) for details.		Nitrate	10	---	Molybdenum(T)	--- 150
		Nitrite	0.05	---	Nickel	TVS TVS
		Phosphorus	---	0.0074*	Nickel(T)	--- 100
		Phosphorus	---	0.025*	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.

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

23. All lakes and reservoirs tributary to the Blue River below Dillon Reservoir, except for specific listings in Segment 21.							
COUCBL23	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	varies*	varies*	Temperature °C	Arsenic	340	---
	Recreation E	acute	chronic		Arsenic(T)	---	0.02
	Water Supply	---	6.0	D.O. (mg/L)	Cadmium	TVS(tr)	TVS
Qualifiers:		---	7.0	D.O. (spawning)	Cadmium(T)	5.0	---
Other:		6.5 - 9.0	---	pH	Chromium III	---	TVS
chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		---	8	chlorophyll a (ug/L)	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		---	126	E. Coli (per 100 mL)	Chromium VI	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Copper	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		acute	chronic		Iron	---	WS
*Temperature =		TVS	TVS	Ammonia	Iron(T)	---	1000
DM and MWAT=CL/CLL from 1/1-3/31		---	0.75	Boron	Lead	TVS	TVS
Green Mountain Reservoir		---	250	Chloride	Lead(T)	50	---
DM=22.4 and MWAT=16.6 from 4/1-12/31		0.019	0.011	Chlorine	Manganese	TVS	TVS/WS
All others		0.005	---	Cyanide	Mercury(T)	---	0.01
DM and MWAT=CL/CLL from 4/1-12/31		10	---	Nitrate	Molybdenum(T)	---	150
		0.05	---	Nitrite	Nickel	TVS	TVS
		---	0.025*	Phosphorus	Nickel(T)	---	100
		---	WS	Sulfate	Selenium	TVS	TVS
		---	0.002	Sulfide	Silver	TVS	TVS(tr)
					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.

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

1. All tributaries to the Eagle River, including all wetlands, within the Gore Range - Eagles Nest and Holy Cross Wilderness Areas.						
COUCEA01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
OW*	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	---
*Designation: Consistent with the provisions of section 25-8-104 C.R.S. the OW designation shall not apply with respect to the Homestake Water Project of the Cities of Aurora and Colorado Springs. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
	Inorganic (mg/L)				Copper	TVS TVS
	acute chronic				Iron	---
		Ammonia	TVS	TVS	Iron(T)	---
		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)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	0.05	---	Nickel	TVS TVS
		Phosphorus	---	0.11	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					Uranium	varies* varies*
				Zinc	TVS TVS/TVS(sc)	
2. Mainstem of the Eagle River from the source to above the compressor house bridge at Belden (39.526879, -106.394950).						
COUCEA02	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	---
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE* ---
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Cadmium(acute) = $e^{(0.9789 \cdot \ln(\text{hardness}) - 3.866)} \cdot (1.136672 - (\ln(\text{hardness}) \cdot 0.041838))$ *Cadmium(chronic) = $e^{(0.7977 \cdot \ln(\text{hardness}) - 3.909)} \cdot (1.101672 - (\ln(\text{hardness}) \cdot 0.041838))$ *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150*	Chromium III	---
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
	Inorganic (mg/L)				Chromium VI	TVS TVS
	acute chronic				Copper	TVS TVS
		Ammonia	TVS	TVS	Iron	---
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS TVS
		Chlorine	0.019	0.011	Lead(T)	50 ---
		Cyanide	0.005	---	Manganese	TVS TVS/WS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	0.11*	Nickel	TVS TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS(tr)
				Uranium	varies* varies*	
				Zinc	TVS TVS/TVS(sc)	

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.

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

5a. Mainstem of the Eagle River from above the compressor house bridge at Belden (39.526879, -106.394950) to a point immediately above the Highway 24 Bridge near Tigiwon Road (39.554936, -106.401691).							
COUCEA05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	acute	chronic
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m ²)	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
			acute	chronic	Copper	---	SSE*
		Ammonia	TVS	TVS	Copper	SSE*	---
		Boron	---	0.75	Iron	---	WS
		Chloride	---	250	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	0.05	---	Mercury(T)	---	0.01
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---

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.

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

5b. Mainstem of the Eagle River from a point immediately above the Highway 24 Bridge near Tigiwon Road (39.554936, -106.401691) to a point immediately above the confluence with Martin Creek.

COUCEA05B	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	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	---	SSE*
		Inorganic (mg/L)			Copper	SSE*	---
		acute	chronic	Iron	---	WS	
*Designation: 9/30/00 Baseline does not apply		Ammonia	TVS	TVS	Iron(T)	---	1000
Cadmium(chronic) = (1.101672-[ln(hardness)(0.041838)])* e^(0.7998 [ln(hardness)]-3.1725)		Boron	---	0.75	Lead	TVS	TVS
*Copper(acute) = 0.96*e^0.9801[ln(hardness)]-1.5865		Chloride	---	250	Lead(T)	50	---
*Copper(chronic) = 0.96*e^0.5897[ln(hardness)]-0.4845		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Uranium(acute) = See 33.5(3) for details.		Cyanide	0.005	---	Mercury(T)	---	0.01
*Uranium(chronic) = See 33.5(3) for details.		Nitrate	10	---	Molybdenum(T)	---	150
*Zinc(acute) = 0.978*e^0.8537[ln(hardness)]+2.1302 from 1/1 - 4/30		Nitrite	0.05	---	Nickel	TVS	TVS
0.978*e^0.8537[ln(hardness)]+1.4189 from 5/1 - 12/31		Phosphorus	---	---	Nickel(T)	---	100
*Zinc(chronic) = 0.986*e^0.8537[ln(hardness)]+1.9593 from 1/1 - 4/30		Sulfate	---	WS	Selenium	TVS	TVS
0.986*e^0.8537[ln(hardness)]+1.2481 from 5/1 - 12/31		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Eagle River Basin

5c. Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.							
COUCEA05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
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	---	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2021			Inorganic (mg/L)		Chromium VI	TVS	TVS
Designation: 9/30/00 Baseline does not apply					Copper	---	SSE
Cadmium(acute) = e ^{0.9789} ln(hardness)-3.866(1.136672-(ln(hardness)*0.041838))			acute	chronic	Copper	SSE*	---
Cadmium(chronic) = (1.101672-[ln(hardness)(0.041838)])* e ^{0.7998} [ln(hardness)]-3.1725		Ammonia	TVS	TVS	Iron	---	WS
*Copper(acute) = 0.96*e ^{0.9801} [ln(hardness)]-1.5865		Boron	---	0.75	Iron(T)	---	1000
*Copper(chronic) = 0.96*e ^{0.5897} [ln(hardness)]-0.4845		Chloride	---	250	Lead	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Zinc(acute) = 0.978*e ^{0.8537} [ln(hardness)]+1.4189		Nitrate	10	---	Mercury(T)	---	0.01
*Zinc(chronic) = 0.986*e ^{0.8537} [ln(hardness)]+1.2481		Nitrite	0.05	---	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	---	SSE*
					Zinc	SSE*	---
6. All tributaries to the Eagle River, including all wetlands, from above the compressor house bridge at Belden (39.526879, -106.394950) to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7a, 7b, and 8.							
COUCEA06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
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	---	SSE*
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/2021			Inorganic (mg/L)		Chromium VI	TVS	TVS
Cadmium(acute) = e ^{0.9789} ln(hardness)-3.866(1.136672-(ln(hardness)*0.041838))			acute	chronic	Copper	TVS	TVS
Cadmium(chronic) = e ^{0.7977} ln(hardness)-3.909(1.101672-(ln(hardness)*0.041838))		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		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/TVS(sc)

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.

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

7a. Mainstem of Cross Creek from the source to below the Minturn Water Facility (39.565419, -106.417032), except for the specific listings in Segment 1.							
COUCEA07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I CS-I	Arsenic	340	---	
			acute	chronic	Arsenic(T)	---	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---	
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	
		Ammonia	TVS	TVS	Iron(T)	---	
		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)	---	
		Nitrate	10	---	Molybdenum(T)	---	
		Nitrite	0.05	---	Nickel	TVS TVS	
		Phosphorus	---	0.11	Nickel(T)	---	
		Sulfate	---	WS	Selenium	TVS TVS	
		Sulfide	---	0.002	Silver	TVS TVS(tr)	
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)
7b. Mainstem of Cross Creek from below the Minturn Water Facility (39.565419, -106.417032) to the confluence with the Eagle River.							
COUCEA07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable*	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I CS-I	Arsenic	340	---	
			acute	chronic	Arsenic(T)	---	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) SSE*	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	
*Designation: 9/30/00 Baseline does not apply		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---	
Cadmium(chronic) = (1.101672-[ln(hardness)(0.041838)])* e^(0.7998 [ln(hardness)]-3.1725)		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
*Copper(acute) = 0.96*e^0.9801[ln(hardness)]-1.5865		Inorganic (mg/L)			Copper	---	
*Copper(chronic) = 0.96*e^0.5897[ln(hardness)]-0.4845			acute	chronic	Copper	SSE* ---	
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Iron	---	
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Iron(T)	---	
*Zinc(acute) = 0.978*e^0.8537[ln(hardness)]+2.1302 from 1/1 - 4/30		Chloride	---	250	Lead	TVS TVS	
0.978*e^0.8537[ln(hardness)]+1.4189 from 5/1 - 12/31		Chlorine	0.019	0.011	Lead(T)	50 ---	
*Zinc(chronic) = 0.986*e^0.8537[ln(hardness)]+1.9593 from 1/1 - 4/30		Cyanide	0.005	---	Manganese	TVS TVS/WS	
0.986*e^0.8537[ln(hardness)]+1.2481 from 5/1 - 12/31		Nitrate	10	---	Mercury(T)	---	
		Nitrite	0.05	---	Molybdenum(T)	---	
		Phosphorus	---	0.11	Nickel	TVS TVS	
		Sulfate	---	WS	Nickel(T)	---	
		Sulfide	---	0.002	Selenium	TVS TVS	
					Silver	TVS TVS(tr)	
					Uranium	varies*	
					Zinc	---	
					Zinc	SSE* ---	

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.

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

8. Mainstem of Gore Creek from the confluence with Black Gore Creek to the confluence with the Eagle River.								
COUCEA08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute chronic				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I*	varies*	Arsenic	340 ---		
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02		
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = MWAT= 14 from 6/1 - 6/30 MWAT=CS-I from 7/1 - 9/30 MWAT=12 from 10/1 - 10/15 MWAT=CS-I from 10/16 - 5/31		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---		
		pH	6.5 - 9.0	---	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150*	---	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	---	126	---	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS	TVS	
		acute			chronic			
		Ammonia	TVS	TVS	Iron	---	WS	
		Boron	---	0.75	Iron(T)	---	1000	
		Chloride	---	250	Lead	TVS	TVS	
		Chlorine	0.019	0.011	Lead(T)	50 ---		
		Cyanide	0.005	---	Manganese	TVS	TVS/WS	
		Nitrate	10	---	Mercury(T)	---	0.01	
		Nitrite	0.05	---	Molybdenum(T)	---	150	
		Phosphorus	---	0.11*	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
Sulfide	---	0.002	Selenium	TVS	TVS			
			Silver	TVS	TVS(tr)			
			Uranium	varies*	varies*			
			Zinc	TVS	TVS/TVS(sc)			
9a. Mainstem of the Eagle River from above Gore Creek to a point immediately below the confluence with Squaw Creek.								
COUCEA09A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute chronic				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I*	varies*	Arsenic	340 ---		
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02		
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = MWAT=16 from 6/1 - 6/30 MWAT=CS-I from 7/1 - 9/30 MWAT=12 from 10/1 - 10/15 MWAT=11 from 10/16 - 10/31 MWAT=CS-I from 11/1 - 5/31		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---		
		pH	6.5 - 9.0	---	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	---	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	---	126	---	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS	TVS	
		acute			chronic			
		Ammonia	TVS	TVS	Iron	---	WS	
		Boron	---	0.75	Iron(T)	---	1000	
		Chloride	---	250	Lead	TVS	TVS	
		Chlorine	0.019	0.011	Lead(T)	50 ---		
		Cyanide	0.005	---	Manganese	TVS	TVS/WS	
		Nitrate	10	---	Mercury(T)	---	0.01	
		Nitrite	0.05	---	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
Sulfide	---	0.002	Selenium	TVS	TVS			
			Silver	TVS	TVS(tr)			
			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.

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

9b. Mainstem of the Eagle River from a point immediately below the confluence with Squaw Creek to a point immediately below the confluence with Rube Creek.							
COUCEA09B	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.			acute	chronic	Iron(T)	---	1000
*Temperature =		Ammonia	TVS	TVS	Lead	TVS	TVS
DM=15 and MWAT=12 from 4/1 - 5/31		Boron	---	0.75	Lead(T)	50	---
DM=CS-II and MWAT=CS-II from 6/1 - 9/30		Chloride	---	250	Manganese	TVS	TVS/WS
DM=15 and MWAT=12 from 10/1 - 10/15		Chlorine	0.019	0.011	Mercury(T)	---	0.01
DM=15 and MWAT=11 from 10/16 - 10/31		Cyanide	0.005	---	Molybdenum(T)	---	150
DM=CS-II and MWAT=CS-II from 11/1-3/31		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

9c. Mainstem of the Eagle River from a point immediately below the confluence with Rube Creek to the confluence with the Colorado River.							
COUCEA09C	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 E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.			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	---	---	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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Eagle River Basin

10a. All tributaries to the Eagle River, including all wetlands, from a point immediately below the confluence with Lake Creek to the confluence with the Colorado River, except for specific listings in Segments 10b, 11 and 12, and those waters included in Segment 1.							
COUCEA10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable		acute	chronic	Arsenic	340	---	
		Temperature °C	CS-I	CS-I	Arsenic(T)	---	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	---	
		chlorophyll a (mg/m ²)	---	150	---	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	---	Chromium VI	TVS TVS
						Copper	TVS TVS
						Iron	---
						Iron(T)	---
						Lead	TVS TVS
						Lead(T)	50 ---
						Manganese	TVS TVS/WS
						Mercury(T)	---
						Molybdenum(T)	---
						Nickel	TVS TVS
						Nickel(T)	---
						Selenium	TVS TVS
						Silver	TVS TVS(tr)
					Uranium	varies* varies*	
					Zinc	TVS TVS	

10b. Abrams Creek, including all tributaries and wetlands, from the source to the eastern boundary of the United States Bureau of Land Management lands.							
COUCEA10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
OW		acute	chronic	Arsenic	340	---	
		Temperature °C	CS-I	CS-I	Arsenic(T)	---	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	---	
		chlorophyll a (mg/m ²)	---	150	---	Chromium III(T)	50 ---
		E. Coli (per 100 mL)	---	126	---	Chromium VI	TVS TVS
						Copper	TVS TVS
						Iron	---
						Iron(T)	---
						Lead	TVS TVS
						Lead(T)	50 ---
						Manganese	TVS TVS/WS
						Mercury(T)	---
						Molybdenum(T)	---
						Nickel	TVS TVS
						Nickel(T)	---
						Selenium	TVS TVS
						Silver	TVS TVS(tr)
					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.

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

11. Mainstem of Alkali Creek (near Wolcott) from the source to the confluence with the Eagle River. Mainstem of Milk Creek from the source to the confluence with the Eagle River.						
COUCEA11	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 2 Recreation P	Temperature °C	CS-I	CS-I	Arsenic	340 ---
Qualifiers:		acute	chronic	Arsenic(T)	---	7.6
Fish Ingestion Standards Apply		D.O. (mg/L)	---	6.0	Beryllium(T)	---
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS(tr) TVS
*Uranium(acute) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	TVS TVS
*Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	---
		E. Coli (per 100 mL)	---	205	Chromium VI	TVS TVS
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Manganese	TVS TVS
		Chloride	---	250	Manganese(T)	---
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	100	---	Nickel	TVS TVS
		Nitrite	0.05	---	Selenium	TVS TVS
		Phosphorus	---	0.11	Silver	TVS TVS(tr)
		Sulfate	---	---	Uranium	varies* varies*
		Sulfide	---	0.002	Zinc	TVS TVS
12. Mainstem of Brush Creek, from the source to the confluence with the Eagle River, including the East and West Forks, except for those tributaries included in Segment 1.						
COUCEA12	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340 ---
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Temporary Modification(s):		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	---	Chromium III	---
Expiration Date of 12/31/2021		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---
*Uranium(acute) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
*Uranium(chronic) = See 33.5(3) for details.		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---
		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)	---
		Nitrate	10	---	Molybdenum(T)	---
		Nitrite	0.05	---	Nickel	TVS TVS
		Phosphorus	---	0.11	Nickel(T)	---
		Sulfate	---	WS	Selenium	TVS TVS
		Sulfide	---	0.002	Silver	TVS TVS(tr)
					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.

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

13. All lakes and reservoirs tributary to the Eagle River within the Gore Range - Eagles Nest and Holy Cross Wilderness Areas.							
COUCEA13	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
OW	Agriculture						
	Aq Life Cold 1	CL,CLL	CL,CLL	Temperature °C	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	---	6.0	D.O. (mg/L)	TVS(tr)	TVS	
Qualifiers:		---	7.0	D.O. (spawning)	5.0	---	
Other:		6.5 - 9.0	---	pH	---	TVS	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		---	8*	chlorophyll a (ug/L)	50	---	
		---	126	E. Coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		---	---	Iron(T)	---	1000	
		TVS	TVS	Lead	TVS	TVS	
		---	0.75	Lead(T)	50	---	
		---	250	Manganese	TVS	TVS/WS	
		0.019	0.011	Mercury(T)	---	0.01	
		0.005	---	Molybdenum(T)	---	150	
		10	---	Nickel	TVS	TVS	
		0.05	---	Nickel(T)	---	100	
		---	0.025*	Selenium	TVS	TVS	
		---	WS	Silver	TVS	TVS(tr)	
		---	0.002	Uranium	varies*	varies*	
		Zinc	TVS	TVS			

14. All lakes and reservoirs tributary to the Eagle River except for specific listings in Segment 13.							
COUCEA14	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture						
	Aq Life Cold 1	CL,CLL	CL,CLL	Temperature °C	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	---	6.0	D.O. (mg/L)	TVS(tr)	TVS	
Qualifiers:		---	7.0	D.O. (spawning)	5.0	---	
Other:		6.5 - 9.0	---	pH	---	TVS	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		---	8*	chlorophyll a (ug/L)	50	---	
		---	126	E. Coli (per 100 mL)	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		---	---	Iron(T)	---	1000	
		TVS	TVS	Lead	TVS	TVS	
		---	0.75	Lead(T)	50	---	
		---	250	Manganese	TVS	TVS/WS	
		0.019	0.011	Mercury(T)	---	0.01	
		0.005	---	Molybdenum(T)	---	150	
		10	---	Nickel	TVS	TVS	
		0.05	---	Nickel(T)	---	100	
		---	0.025*	Selenium	TVS	TVS	
		---	WS	Silver	TVS	TVS(tr)	
		---	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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

1. All tributaries to the Roaring Fork River, including all wetlands, within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.							
COUCRF01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (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

2. Mainstem of the Roaring Fork River, including all tributaries and wetlands, from the source to a point immediately below the confluence with Hunter Creek, except for those tributaries included in Segment 1.							
COUCRF02	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		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.			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/TVS(sc)

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

3a. Mainstem of the Roaring Fork River, from a point immediately below the confluence with Hunter Creek, to a point immediately below the confluence with the Fryingpan River. All tributaries to the Roaring Fork River, including wetlands, from a point immediately below the confluence with Hunter Creek to the confluence with the Colorado River, except for those tributaries included in Segment 1, 3b, 3d, 4-10b.

COUCRF03A	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		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).					Inorganic (mg/L)		
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).					acute	chronic	
*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

3b. Mainstem of Red Canyon, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for Landis Creek from the source to the Hopkins Ditch (39.522138, -107.223479).

COUCRF03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02-10 ^A
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.					Copper	TVS	TVS
					Inorganic (mg/L)		
					acute	chronic	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

3c. Mainstem of the Roaring Fork River from a point immediately below the confluence with the Frypanpan River to the confluence with the Colorado River.							
COUCRF03C	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		Inorganic (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

3d. Mainstem of Cattle Creek, including all tributaries and wetlands, from the source to the most downstream White River National Forest boundary.							
COUCRF03D	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Roaring Fork River Basin

4. Mainstem of Brush Creek from the source to the confluence with the Roaring Fork River.							
COUCRF04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS	
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50 ---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
Expiration Date of 12/31/2021					Copper	TVS TVS	
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS TVS	
*Uranium(chronic) = See 33.5(3) for details.		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	
5. Mainstem of the Fryngpan River from the source to the confluence with the North Fork Fryngpan River, except for the portion included in Segment 1.							
COUCRF05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	CS-I	CS-I	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS	
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---	
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
					Copper	TVS TVS	
		Inorganic (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/TVS(sc)	

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

6. Mainstem of the Fryingpan River from the confluence with the North Fork Fryingpan River to the confluence with the Roaring Fork River.						
COUCRF06	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I CS-I	Arsenic	340 ---	
Qualifiers:		acute	chronic	Arsenic(T)	--- 0.02	
		D.O. (mg/L)	--- 6.0	Cadmium	TVS(tr) TVS	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
Qualifiers:		chlorophyll a (mg/m ²)	--- 150	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron	--- WS	
		Ammonia	TVS TVS	Iron(T)	--- 1000	
		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/TVS(sc)	
7. All tributaries to the Fryingpan River, including all wetlands, from the source to the confluence with the Roaring Fork River, except for those tributaries included in Segment 1.						
COUCRF07	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I CS-I	Arsenic	340 ---	
Qualifiers:		acute	chronic	Arsenic(T)	--- 0.02	
		D.O. (mg/L)	--- 6.0	Cadmium	TVS(tr) TVS	
Other:	*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
Qualifiers:		chlorophyll a (mg/m ²)	--- 150	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	--- 126	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS TVS
		acute	chronic	Iron	--- WS	
		Ammonia	TVS TVS	Iron(T)	--- 1000	
		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/TVS(sc)	

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

8. Mainstem of the Crystal River, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for the specific listings in Segments 1, 9, 10a and 10b.						
COUCRF08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute chronic		
Reviewable		acute	chronic			
		Temperature °C	CS-I	CS-I	Arsenic	340 ---
					Arsenic(T)	--- 0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/2021					Copper	TVS TVS
		Inorganic (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
9. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to the confluence with the Crystal River.						
COUCRF09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute chronic		
Reviewable		acute	chronic			
		Temperature °C	CS-I	CS-I	Arsenic	340 ---
					Arsenic(T)	--- 0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/2021					Copper	TVS TVS
		Inorganic (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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

10a. Mainstem of Thompson Creek, including all tributaries and wetlands, from the source to the confluence with the Crystal River, except for specific listings in Segment 10b.							
COUCRF10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	Arsenic	340	---	
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	
		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)	---	
		Nitrate	10	---	Molybdenum(T)	---	
		Nitrite	0.05	---	Nickel	TVS TVS	
		Phosphorus	---	0.11	Nickel(T)	---	
		Sulfate	---	WS	Selenium	TVS TVS	
		Sulfide	---	0.002	Silver	TVS TVS(tr)	
					Uranium	varies* varies*	
					Zinc	TVS TVS/TVS(sc)	
10b. Mainstem of North Thompson Creek, including all tributaries and wetlands, from the source to the White River National Forest boundary. Mainstem of Middle Thompson Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with the South Branch of Middle Thompson Creek.							
COUCRF10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	Arsenic	340	---	
		acute	chronic	Arsenic(T)	---	0.02	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	
		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)	---	
		Nitrate	10	---	Molybdenum(T)	---	
		Nitrite	0.05	---	Nickel	TVS TVS	
		Phosphorus	---	0.11	Nickel(T)	---	
		Sulfate	---	WS	Selenium	TVS TVS	
		Sulfide	---	0.002	Silver	TVS TVS(tr)	
					Uranium	varies* varies*	
					Zinc	TVS TVS/TVS(sc)	

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Roaring Fork River Basin

11. All lakes and reservoirs tributary to the Roaring Fork River within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.							
COUCRF11	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	varies*	varies*	340	---		
	Recreation E	acute	chronic	---	0.02		
	Water Supply	---	6.0	TVS(tr)	TVS		
Qualifiers:		---	7.0	5.0	---		
Other:		6.5 - 9.0	---	---	TVS		
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Savage Lake, Ivanhoe Lake DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31		pH	6.5 - 9.0	---	TVS		
		chlorophyll a (ug/L)	---	8*	50	---	
		E. Coli (per 100 mL)	---	126	TVS	TVS	
		Inorganic (mg/L)			---	WS	
		acute	chronic	---	---	1000	
		TVS	TVS	Ammonia	TVS	TVS	
		---	0.75	Boron	---	50	---
		---	250	Chloride	---	TVS	TVS/WS
		0.019	0.011	Chlorine	---	---	0.01
		0.005	---	Cyanide	---	---	150
		10	---	Nitrate	---	TVS	TVS
		0.05	---	Nitrite	---	---	100
		---	0.025*	Phosphorus	---	TVS	TVS
		---	WS	Sulfate	---	TVS	TVS(tr)
		---	0.002	Sulfide	---	varies*	varies*
				TVS	TVS		
				Zinc	TVS		

12. All lakes and reservoirs tributary to the Roaring Fork River, except for the specific listings in Segment 11.							
COUCRF12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	varies*	varies* ^B	340	---		
	Recreation E	acute	chronic	---	0.02		
	Water Supply	---	6.0	TVS(tr)	TVS		
Qualifiers:		---	7.0	5.0	---		
Other:		6.5 - 9.0	---	---	TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Classification: DUWS Applies only to Leonard Thomas Res and Wildcat Res *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Ruedi Reservoir DM=22.4 and MWAT=20.3 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31		chlorophyll a (ug/L)	---	8*	50	---	
		E. Coli (per 100 mL)	---	126	TVS	TVS	
		Inorganic (mg/L)			---	WS	
		acute	chronic	---	---	1000	
		TVS	TVS	Ammonia	TVS	TVS	
		---	0.75	Boron	---	50	---
		---	250	Chloride	---	TVS	TVS/WS
		0.019	0.011	Chlorine	---	---	0.01
		0.005	---	Cyanide	---	---	150
		10	---	Nitrate	---	TVS	TVS
		0.05	---	Nitrite	---	---	100
		---	0.025*	Phosphorus	---	TVS	TVS
		---	WS	Sulfate	---	TVS	TVS(tr)
		---	0.002	Sulfide	---	varies*	varies*
						TVS	TVS
				Zinc	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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS North Platte River Basin

1. All tributaries to the North Platte and Encampment Rivers, including all wetlands, within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.							
COUCNP01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	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(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.					Copper	TVS	TVS
		Inorganic (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	TVSWS
		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
2. Mainstem of the Encampment River, including all tributaries and wetlands, from the source to the Colorado/Wyoming border, except for those tributaries included in Segment 1.							
COUCNP02	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 P		acute	chronic	Arsenic(T)	---	0.02
Water Supply		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Other:		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.					Copper	TVS	TVS
		Inorganic (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	TVSWS
		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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS North Platte River Basin

3. Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border.									
COUCNP03	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture		DM	MWAT		acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Arsenic	340	---		
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02		
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS		
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 33.5(4). *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---		
		chlorophyll a (mg/m ²)	---	150*	Chromium III	---	TVS	---	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	---	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	TVS	
		acute			chronic	Copper	TVS	TVS	
		Ammonia			TVS	TVS	Iron	---	WS
		Boron			---	0.75	Iron(T)	---	1000
		Chloride			---	250	Lead	TVS	TVS
		Chlorine			0.019	0.011	Lead(T)	50	---
		Cyanide			0.005	---	Manganese	TVS	TVS/WS
		Nitrate			10	---	Mercury(T)	---	0.01
		Nitrite			0.05	---	Mercury(T)	---	0.01
		Phosphorus			---	0.11*	Molybdenum(T)	---	150
		Sulfate			---	WS	Nickel	TVS	TVS
		Sulfide			---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS		
					Silver	TVS	TVS(tr)		
					Uranium	varies*	varies*		
					Zinc	TVS	TVS		
4a. All tributaries to the North Platte River, including all wetlands, from the source to the Colorado/Wyoming border, except for those tributaries included in Segments 1, 4b, 5a, 5b, 6, 7a and 7b.									
COUCNP04A	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture		DM	MWAT		acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Arsenic	340	---		
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02		
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---		
		chlorophyll a (mg/m ²)	---	150	Chromium III	---	TVS	---	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	---	
		Inorganic (mg/L)			Chromium VI	TVS	TVS	TVS	
		acute			chronic	Copper	TVS	TVS	
		Ammonia			TVS	TVS	Iron	---	WS
		Boron			---	0.75	Iron(T)	---	1000
		Chloride			---	250	Lead	TVS	TVS
		Chlorine			0.019	0.011	Lead(T)	50	---
		Cyanide			0.005	---	Manganese	TVS	TVS/WS
		Nitrate			10	---	Mercury(T)	---	0.01
		Nitrite			0.05	---	Mercury(T)	---	0.01
		Phosphorus			---	0.11	Molybdenum(T)	---	150
		Sulfate			---	WS	Nickel	TVS	TVS
		Sulfide			---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS		
					Silver	TVS	TVS(tr)		
					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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS North Platte River Basin

4b. Mainstem of the Illinois River, including all tributaries and wetlands, from a point immediately below the confluence with Indian Creek to the confluence with the Michigan River, except for specific listings in Segments 7a and 7b. Mainstem of the Canadian River from below 12E Road (40.720033, -106.088912) to the confluence with the North Platte River. All tributaries to the Canadian River, including wetlands, which enter the mainstem from the southwest from below 12E Road to the confluence with the North Platte River.

COUCNP04B	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 E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		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

5a. Mainstem of the Michigan River from the source to a point immediately below the confluence with the North Fork Michigan River.

COUCNP05A	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		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		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

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS North Platte River Basin

7a. Mainstem of Government Creek from the boundary of the Colorado State Forest to the confluence with the Canadian River. Mainstem of Spring Creek from the source to Spring Creek (Number 31) Reservoir.							
COUCNP07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2 Recreation N	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	7.6
Fish Ingestion Standards Apply		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	---	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	630	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	0.05	---	Uranium	varies*	varies*
		Phosphorus	---	0.11	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			
7b. Mainstem of Spring Creek from the outlet of Spring Creek (Number 31) Reservoir to the confluence with the Illinois River.							
COUCNP07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2 Recreation E	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	7.6
Fish Ingestion Standards Apply		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS	TVS
		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	150	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	126	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
			acute	chronic	Lead	TVS	TVS
		Ammonia	TVS	TVS	Manganese	TVS	TVS
		Boron	---	0.75	Mercury(T)	---	0.01
		Chloride	---	---	Molybdenum(T)	---	150
		Chlorine	0.019	0.011	Nickel	TVS	TVS
		Cyanide	0.005	---	Selenium	TVS	TVS
		Nitrate	100	---	Silver	TVS	TVS(tr)
		Nitrite	0.05	---	Uranium	varies*	varies*
		Phosphorus	---	0.11	Zinc	TVS	TVS
		Sulfate	---	---			
		Sulfide	---	0.002			

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS North Platte River Basin

8. All lakes and reservoirs tributary to the North Platte and Encampment Rivers within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.								
COUCNP08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
OW	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(tr)	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Blue Lake, Lower Big Twin Lake, Katherine Lake DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)				Copper	TVS	TVS
			acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000	
		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	---	0.025*	Nickel(T)	---	100	
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS(tr)	
					Uranium	varies*	varies*	
			Zinc	TVS	TVS			

9. All lakes and reservoirs tributary to the North Platte and Encampment Rivers except for specific listings in Segment 8.								
COUCNP09	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies* ^B	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS	
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.		chlorophyll a (ug/L)	---	8*	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)				Copper	TVS	TVS
			acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000	
		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	---	0.025*	Nickel(T)	---	100	
		Sulfate	---	WS	Selenium	TVS	TVS	
		Sulfide	---	0.002	Silver	TVS	TVS(tr)	
					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.

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

1. All tributaries to the Yampa River, including all wetlands, which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.							
COUCYA01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)

2a. Mainstem of the Yampa River from the confluence of the Bear River and Phillips Creek to a point immediately above the confluence with Oak Creek.							
COUCYA02A	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	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	1000
		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/TVS(sc)

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.

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

2b. Mainstem of the Yampa River from a point immediately above the confluence with Oak Creek to a point immediately below the confluence with Elkhead Creek.							
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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
temperature(MWAT) = current conditions					Iron	---	WS
7/1 - 9/30		Inorganic (mg/L)			Iron(T)	---	1000
temperature(MWAT) = current conditions			acute	chronic	Lead	TVS	TVS
Expiration Date of 12/31/2024		Ammonia	TVS	TVS	Lead(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 33.5(3) for details.		Chloride	---	250	Mercury(T)	---	0.01
*Temperature =		Chlorine	0.019	0.011	Molybdenum(T)	---	150
See 33.6(4) for temperature standards.		Cyanide	0.005	---	Nickel	TVS	TVS
		Nitrate	10	---	Nickel(T)	---	100
		Nitrite	0.05	---	Selenium	TVS	TVS
		Phosphorus	---	---	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	Zinc	TVS	TVS/TVS(sc)

3. All tributaries to the Yampa River, including all wetlands, from the source to above the confluence with the Elk River, except for specific listings in Segments 1 and 4-7. Mainstem of the Bear River, including all tributaries and wetlands, from the boundary of the Flat Tops Wilderness Area to the confluence with the Yampa River.

COUCYA03	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		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		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/TVS(sc)

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.

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

4. Mainstem of Little White Snake Creek from the source to the confluence with the Yampa River.							
COUCYA04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2 Recreation N Water Supply	Temperature °C	CS-II	CS-II	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02-10 ^A
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Inorganic (mg/L)		
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVSWS
		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
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).							
*Uranium(acute) = See 33.5(3) for details.							
*Uranium(chronic) = See 33.5(3) for details.							

5. Mainstem of Chimney Creek and Phillips Creek, including all tributaries and wetlands, which are not on National Forest lands, from their sources to the confluence with the Yampa River.							
COUCYA05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Water Supply Recreation P	Temperature °C	CS-I	CS-I	Arsenic	340	---
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02
Other:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Inorganic (mg/L)		
			acute	chronic	Iron	---	WS
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVSWS
		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
Temporary Modification(s):							
Arsenic(chronic) = hybrid							
Expiration Date of 12/31/2021							
*Uranium(acute) = See 33.5(3) for details.							
*Uranium(chronic) = See 33.5(3) for details.							

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.

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			
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(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.					Inorganic (mg/L)		
*Uranium(chronic) = See 33.5(3) for details.						acute	chronic
		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	TVSWS
		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			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/2021					Copper	TVS	TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).					Inorganic (mg/L)		
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).						acute	chronic
*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	TVSWS
		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

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.

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

8. Mainstem of the Elk River, including all tributaries and wetlands, from the source to the confluence with the Yampa River, except for those tributaries included in Segments 1 and 20a. Mainstem of the West Fork Elk River from the source to the confluence with the Yampa River.						
COUCYA08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic	
Reviewable		acute	chronic			
		Temperature °C	CS-I	CS-I	Arsenic	340 ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS(tr) TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150*	Chromium III	--- TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
Expiration Date of 12/31/2021					Chromium VI	TVS TVS
*chlorophyll a (mg/m ²)(chronic) = applies only above the facilities listed at 33.5(4).					Copper	TVS TVS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).					Iron	--- WS
*Uranium(acute) = See 33.5(3) for details.					Iron(T)	--- 1000
*Uranium(chronic) = See 33.5(3) for details.					Lead	TVS TVS
					Lead(T)	50 ---
					Manganese	TVS TVS/WS
					Mercury(T)	--- 0.01
					Molybdenum(T)	--- 150
					Nickel	TVS TVS
					Nickel(T)	--- 100
					Selenium	TVS TVS
					Silver	TVS TVS(tr)
					Uranium	varies* varies*
					Zinc	TVS TVS/TVS(sc)
9. Deleted.						
COUCYA09	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT	acute	chronic	
Qualifiers:		acute	chronic			
Other:		Inorganic (mg/L)				
		acute	chronic			

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.

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

10. Deleted.						
COUCYA10	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT		acute	chronic
Qualifiers:		acute	chronic			
Other:		Inorganic (mg/L)				
		acute	chronic			
11. Fish Creek, including all tributaries and wetlands, from the source to County Road 27 (40.355559, -107.105131), except for specific listings in Segment 20a.						
COUCYA11	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 ---
	Water Supply	acute	chronic		Arsenic(T)	--- 0.02
	Recreation N	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
Other:		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	630	Chromium VI	TVS TVS
Expiration Date of 12/31/2021		Inorganic (mg/L)			Copper	TVS TVS
*Uranium(acute) = See 33.5(3) for details.		acute	chronic		Iron	--- WS
*Uranium(chronic) = See 33.5(3) for details.					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	Manganese(T)	--- 200
		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/TVS(sc)

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.

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

12. All tributaries to the Yampa River, including all wetlands, from above the confluence with the Elk River to above the confluence with Elkhead Creek, except for specific listings in Segments 8, 11, 13a-13j and 20a.							
COUCYA12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 2 Recreation N	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Other:		D.O. (spawning)	---	7.0	Chromium III	TVS TVS	
*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III(T)	---	100
		chlorophyll a (mg/m ²)	---	---	Chromium VI	TVS	TVS
		E. Coli (per 100 mL)	---	630	Copper	TVS	TVS
		Inorganic (mg/L)			Iron(T)	---	1000
					Lead	TVS	TVS
					Manganese	TVS	TVS
					Manganese(T)	---	200
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS
					Sulfate	---	---
					Sulfide	---	0.002

13a. Mainstem of Trout Creek, including all tributaries and wetlands, from the source to the headgate of Spruce Hill Ditch (40.317190, -107.005110), except for specific listings in Segments 1 and 20a. Mainstem of Middle Creek, including all tributaries and wetlands, from the source to County Road 27 (40.339183, -107.025533), except for specific listings in Segment 20a.							
COUCYA13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	arsenic	340	---	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
					Iron	---	WS
					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury(T)	---	0.01
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS/TVS(sc)

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.

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

13d. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to above the confluence with Temple Gulch.							
COUCYA13D	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
UP	Agriculture				acute	chronic	
	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		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 Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	---	100
Iron(chronic) = current condition	3/1 - 4/30	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 6/30/2023		Inorganic (mg/L)			Copper	TVS	TVS
Selenium(chronic) = current conditions			acute	chronic	Iron(T)	---	varies*
Expiration Date of 12/31/2022		Ammonia	TVS	TVS	Lead	TVS	TVS
*Iron(T)(chronic) = See section 33.6(4) for standards and assessment locations.		Boron	---	0.75	Manganese	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Chloride	---	---	Mercury(T)	---	0.01
*Uranium(chronic) = See 33.5(3) for details.		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			

13e. Mainstem of Sage Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River.							
COUCYA13E	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			
UP	Agriculture				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/m ²)	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	630	Chromium III(T)	50	---
Selenium(chronic) = current conditions		Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/2022			acute	chronic	Copper	TVS	TVS
*Iron(T)(chronic) = See section 33.6(4) for standards and assessment locations for Sage Creek.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 33.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
Uranium(chronic) = See 33.5(3) for details.		Chloride	---	250	Iron(T)	---	varies
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVSWS
		Nitrite	0.05	---	Mercury(T)	---	0.01
		Phosphorus	---	0.17	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					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.

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

13f. Mainstem of Trout Creek, including all tributaries and wetlands, from a point immediately below the confluence with Fish Creek to the confluence with the Yampa River.							
COUCYA13F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	varies*	varies*	Arsenic	340 ---	
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2021 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Temperature = See 33.6(4) for temperature standards.	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---	
		pH	6.5 - 9.0	---	Chromium III	---	
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	50 ---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	TVS	Iron(T)	---	
		Boron	---	0.75	Lead	TVS TVS	
		Chloride	---	250	Lead(T)	50 ---	
		Chlorine	0.019	0.011	Manganese	TVS TVSWS	
		Cyanide	0.005	---	Mercury(T)	---	
		Nitrate	10	---	Molybdenum(T)	---	
		Nitrite	0.05	---	Nickel	TVS TVS	
		Phosphorus	---	0.11	Nickel(T)	---	
		Sulfate	---	WS	Selenium	TVS TVS	
		Sulfide	---	0.002	Silver	TVS TVS(tr)	
					Uranium	varies* varies*	
					Zinc	TVS TVS	

13g. All tributaries to Fish Creek from the confluence with Cow Camp Creek (40.398773, -107.016467) to the confluence with Trout Creek.							
COUCYA13G	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WS-II	WS-II	Arsenic	340 ---	
Qualifiers:		acute	chronic	Arsenic(T)	---	7.6	
Other:	Temporary Modification(s): Selenium(chronic) = current conditions Expiration Date of 12/31/2022 *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (mg/L)	---	5.0	Cadmium	TVS TVS	
		pH	6.5 - 9.0	---	Chromium III	TVS TVS	
		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	---	
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS	
		Inorganic (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)	---	
		Chlorine	0.019	0.011	Molybdenum(T)	---	
		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			

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.

REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Yampa River Basin

13h. Mainstem of Dry Creek (near Hayden), including all tributaries and wetlands, from above the confluence with Temple Gulch to the confluence with the Yampa River.						
COUCYA13H	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-II	WS-II	Arsenic	340 ---
			acute	chronic	Arsenic(T)	--- 7.6
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
Other:		pH	6.5 - 9.0	---	Chromium III	TVS TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	150	Chromium III(T)	--- 100
Selenium(chronic) = current conditions		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/2022		Inorganic (mg/L)			Copper	TVS TVS
			acute	chronic	Iron(T)	--- 1000
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS TVS
*Uranium(chronic) = See 33.5(3) for details.		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 tributaries and wetlands, from the source to immediately above the confluence with Scotchmans Gulch.						
COUCYA13I	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
UP	Aq Life Warm 2 Recreation N	Temperature °C	WS-II	WS-II	Arsenic	340 ---
			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 Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	--- 100
Iron(chronic) = current conditions*		E. Coli (per 100 mL)	---	630	Chromium VI	TVS TVS
Expiration Date of 6/30/2023		Inorganic (mg/L)			Copper	TVS TVS
Selenium(chronic) = current conditions			acute	chronic	Iron(T)	--- 1000
Expiration Date of 12/31/2022		Ammonia	TVS	TVS	Lead	TVS TVS
		Boron	---	0.75	Manganese	TVS TVS
*Uranium(acute) = See 33.5(3) for details.		Chloride	---	---	Mercury(T)	--- 0.01
*Uranium(chronic) = See 33.5(3) for details.		Chlorine	0.019	0.011	Molybdenum(T)	--- 150
*TempMod: Iron = applies to Grassy Creek.		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		

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.

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

13j. Mainstem of Grassy Creek (near Hayden), including all tributaries and wetlands, from above the confluence with Scotchmans Gulch to the confluence with the Yampa River.						
COUCYA13J	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2 Recreation N	Temperature °C	WS-II	WS-II	Arsenic	340 ---
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS TVS
Temporary Modification(s):		chlorophyll a (mg/m ²)	---	---	Chromium III	TVS TVS
Selenium(chronic) = current conditions		E. Coli (per 100 mL)	---	630	Chromium III(T)	---
Expiration Date of 12/31/2022		Inorganic (mg/L)			Chromium VI	TVS TVS
*Uranium(acute) = See 33.5(3) for details.					Copper	TVS TVS
*Uranium(chronic) = See 33.5(3) for details.					Iron(T)	---
					Lead	TVS TVS
		Ammonia	TVS	TVS	Manganese	TVS TVS
		Boron	---	0.75	Mercury(T)	---
		Chloride	---	---	Molybdenum(T)	---
		Chlorine	0.019	0.011	Nickel	TVS TVS
		Cyanide	0.005	---	Selenium	TVS TVS
		Nitrate	100	---	Silver	TVS TVS
		Nitrite	0.05	---	Uranium	varies* varies*
		Phosphorus	---	0.17	Zinc	TVS TVS
		Sulfate	---	---		
		Sulfide	---	0.002		

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			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Arsenic	340 ---
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic(T)	---
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS(tr) TVS
*Uranium(acute) = See 33.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
*Uranium(chronic) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	150	Chromium III	---
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
		Inorganic (mg/L)			Chromium VI	TVS TVS
					Copper	TVS TVS
					Iron	---
					Iron(T)	---
		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)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS TVS
		Nitrite	0.05	---	Nickel(T)	---
		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.

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

15. Mainstem of Elkhead Creek, including all tributaries and wetlands, from a point immediately below the confluence with Calf Creek to the confluence with the Yampa River. Dry Fork Elkhead Creek, including all tributaries and wetlands, from a point immediately below 80A Road (40.612676, -107.228533) to the confluence with Elkhead Creek.							
COUCYA15	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute chronic			
Reviewable		acute	chronic				
		Temperature °C	WS-II	WS-II	Arsenic	340 ---	
		D.O. (mg/L)	---	5.0	Arsenic(T)	--- 0.02	
		pH	6.5 - 9.0	---	Cadmium	TVS TVS	
		chlorophyll a (mg/m ²)	---	150	Cadmium(T)	5.0 ---	
		E. Coli (per 100 mL)	---	126	Chromium III	--- TVS	
		Inorganic (mg/L)			Chromium III(T)	50 ---	
					Chromium VI	TVS TVS	
					Copper	TVS TVS	
		Ammonia	TVS	TVS	Iron	--- WS	
		Boron	---	0.75	Iron(T)	--- 1000	
		Chloride	---	250	Lead	TVS TVS	
		Chlorine	0.019	0.011	Lead(T)	50 ---	
		Cyanide	0.005	---	Manganese	TVS TVS/WS	
		Nitrate	10	---	Mercury(T)	--- 0.01	
		Nitrite	0.05	---	Molybdenum(T)	--- 150	
		Phosphorus	---	0.17	Nickel	TVS TVS	
		Sulfate	---	WS	Nickel(T)	--- 100	
		Sulfide	---	0.002	Selenium	TVS TVS	
					Silver	TVS TVS	
					Uranium	varies* varies*	
					Zinc	TVS TVS	
16. Deleted.							
COUCYA16	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT	acute chronic			
Qualifiers:		acute	chronic				
Other:		Inorganic (mg/L)					
		acute	chronic				

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.

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

17. Deleted.							
COUCYA17	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Qualifiers:		acute	chronic				
Other:		Inorganic (mg/L)					
		acute	chronic				
18. South Fork Little Snake River and Middle Fork Little Snake River, including all tributaries and wetlands, from their sources to the confluence with the Little Snake River, which are not on National Forest lands. North Fork Little Snake River, including all tributaries and wetlands, from the Colorado/Wyoming border to the confluence with the Little Snake River.							
COUCYA18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-I	CS-I	Arsenic	340	---	
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	6.0	Cadmium	TVS(tr)	TVS	
		D.O. (spawning)	7.0	Cadmium(T)	5.0	---	
		pH	6.5 - 9.0	Chromium III	---	TVS	
		chlorophyll a (mg/m ²)	150	Chromium III(T)	50	---	
		E. Coli (per 100 mL)	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		Ammonia	TVS	Iron(T)	---	1000	
		Boron	0.75	Lead	TVS	TVS	
		Chloride	250	Lead(T)	50	---	
		Chlorine	0.019	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/TVS(sc)	

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.

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

19. All tributaries to the South Fork Little Snake River and Middle Fork Little Snake River, including all wetlands, which are on National Forest lands in Routt County.						
COUCYA19	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I CS-I	Arsenic	340 ---	
Qualifiers:		acute	chronic	Arsenic(T)	--- 0.02	
		D.O. (mg/L)	--- 6.0	Cadmium	TVS(tr) TVS	
Other:	*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
		Inorganic (mg/L)		Chromium III(T)	50 ---	
		acute	chronic	Chromium VI	TVS TVS	
		Ammonia	TVS TVS	Copper	TVS TVS	
		Boron	--- 0.75	Iron	--- WS	
		Chloride	--- 250	Iron(T)	--- 1000	
		Chlorine	0.019 0.011	Lead	TVS TVS	
		Cyanide	0.005 ---	Lead(T)	50 ---	
		Nitrate	10 ---	Manganese	TVS TVS/WS	
		Nitrite	0.05 ---	Mercury(T)	--- 0.01	
		Phosphorus	--- 0.11	Molybdenum(T)	--- 150	
		Sulfate	--- WS	Nickel	TVS TVS	
		Sulfide	--- 0.002	Nickel(T)	--- 100	
				Selenium	TVS TVS	
				Silver	TVS TVS(tr)	
				Uranium	varies* varies*	
				Zinc	TVS TVS/TVS(sc)	
20a. All tributaries to the Yampa River, including all wetlands, from above the confluence with the Elk River to below the confluence with Elkhead Creek, which are on National Forest lands, except for specific listings in Segment 20b.						
COUCYA20A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I CS-I	Arsenic	340 ---	
Qualifiers:		acute	chronic	Arsenic(T)	--- 0.02	
		D.O. (mg/L)	--- 6.0	Cadmium	TVS(tr) TVS	
Other:	*Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	--- 7.0	Cadmium(T)	5.0 ---	
		pH	6.5 - 9.0 ---	Chromium III	--- TVS	
		Inorganic (mg/L)		Chromium III(T)	50 ---	
		acute	chronic	Chromium VI	TVS TVS	
		Ammonia	TVS TVS	Copper	TVS TVS	
		Boron	--- 0.75	Iron	--- WS	
		Chloride	--- 250	Iron(T)	--- 1000	
		Chlorine	0.019 0.011	Lead	TVS TVS	
		Cyanide	0.005 ---	Lead(T)	50 ---	
		Nitrate	10 ---	Manganese	TVS TVS/WS	
		Nitrite	0.05 ---	Mercury(T)	--- 0.01	
		Phosphorus	--- 0.11	Molybdenum(T)	--- 150	
		Sulfate	--- WS	Nickel	TVS TVS	
		Sulfide	--- 0.002	Nickel(T)	--- 100	
				Selenium	TVS TVS	
				Silver	TVS TVS(tr)	
				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.

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

20b. Mainstem of First Creek from the eastern boundary of state lands in California Park (40.731309, -107.141684) to the confluence with Elkhead Creek. Mainstem of Elkhead Creek from the eastern boundary of state lands in California Park (40.743796, -107.141684) to the National Forest boundary.

COUCYA20B	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 N		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
*Uranium(acute) = See 33.5(3) for details.		chlorophyll a (mg/m ²)	---	---	Chromium III(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
					Copper	TVS	TVS
		Inorganic (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

21. All lakes and reservoirs tributary to the Yampa River within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas, except for those lakes and reservoirs included in Lower Yampa River Segment 28.

COUCYA21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Other:		pH	6.5 - 9.0	---	Chromium III	---	TVS
chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		chlorophyll a (ug/L)	---	8	Chromium III(T)	50	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.					Copper	TVS	TVS
*Uranium(chronic) = See 33.5(3) for details.		Inorganic (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	---	0.025*	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.

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

22. All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 21. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River, except for specific listings in Segment 23. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands.

COUCYA22	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	varies*	varies* ^B	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	6.0	Cadmium	TVS(tr)	TVS
	DUWS*	D.O. (spawning)	7.0	Cadmium(T)	5.0	---
Qualifiers:		pH	6.5 - 9.0	Chromium III	---	TVS
Other:		chlorophyll a (ug/L)	8*	Chromium III(T)	50	---
	*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.	E. Coli (per 100 mL)	126	Chromium VI	TVS	TVS
	*Classification: DUWS Applies only to Stagecoach Res. Steamboat Lake and Yampa River Holding Pond	Inorganic (mg/L)		Copper	TVS	TVS
	*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.	acute	chronic	Iron	---	WS
	*Uranium(acute) = See 33.5(3) for details.	Ammonia	TVS	Iron(T)	---	1000
	*Uranium(chronic) = See 33.5(3) for details.	Boron	0.75	Lead	TVS	TVS
	*Temperature = See 33.6(4) for temperature standards.	Chloride	250	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	0.05	Nickel	TVS	TVS
		Phosphorus	0.025*	Nickel(T)	---	100
		Sulfate	WS	Selenium	TVS	TVS
		Sulfide	0.002	Silver	TVS	TVS(tr)
				Uranium	varies*	varies*
				Zinc	TVS	TVS

23. Elkhead Reservoir

COUCYA23	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	WL	WL	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 (ug/L)(chronic) = applies only above the facilities listed at 33.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.	chlorophyll a (ug/L)	8	Chromium III(T)	50	---
	*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4); applies only to lakes and reservoirs larger than 25 acres surface area.	E. Coli (per 100 mL)	126	Chromium VI	TVS	TVS
	*Uranium(acute) = See 33.5(3) for details.	Inorganic (mg/L)		Copper	TVS	TVS
	*Uranium(chronic) = See 33.5(3) for details.	acute	chronic	Iron	---	WS
		Ammonia	TVS	Iron(T)	---	1000
		Boron	0.75	Lead	TVS	TVS
		Chloride	250	Lead(T)	50	---
		Chlorine	0.019	Manganese	TVS	TVS/WS
		Cyanide	0.005	Mercury(T)	---	0.01
		Nitrate	10	Molybdenum(T)	---	150
		Nitrite	0.05	Nickel	TVS	TVS
		Phosphorus	0.025*	Nickel(T)	---	100
		Sulfate	WS	Selenium	TVS	TVS
		Sulfide	0.002	Silver	TVS	TVS
				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.